User's Manual

BEE200 Series

深圳市华联科创科技有限公司

Shenzhen Hualian Technology Co., Ltd

Declaration

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Warning and caution

⚠ Warning: Items shall be strictly followed to avoid person death or serious body damages that may be caused by wrong operation;

⚠ Caution: Items shall be strictly followed to avoid body damages that may be caused by wrong operation;

⚠ Caution: Items shall be strictly followed to avoid printer or other equipment damages that may be caused by wrong operation;

Safety instructions

To ensure the safe operation of printer, please read and strictly follow the below warnings and cautions.

⚠ Warnings

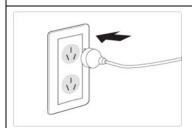|	
	Do not disassemble or modify the machine by yourself Do not disassemble or modify the machine by yourself, or it may cause a fire or damages to the printer.
	Do not plug/unplug the power cord with wet hands Do not plug/unplug the AC adapter connector with wet hands, or it may cause an electric shock.
	Do not place the printer near the heating equipment Do not place the power cord ofprinter or the AC adapter near the heating equipment, or it may cause the cables to melt and lead to a fire or or electric shock.
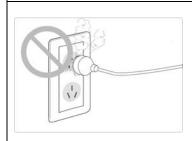
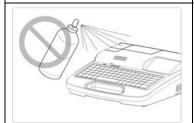|	
	Place the printer far away from the paint thinner, etc. Do not place the printer near the alcohol, paint thinner or other flammable solvents. These solvents may contact the electrical components inside the printer and cause a fire or an electric shock.
	Plug the power cord firmly Make sure that the AC adapter connector is plugged firmly into the power outlet, or it may cause a fire or an electric shock.
	Keep the AC adapter connector to be clean Please clean the AC adapter connector periodically. If any dust, dirt, soot or others accumulates on the connector, it may absorb the moisture and cause insulation failure, which may lead to a fire.
	Do not continue to use the printer when an exception occurs Immediately turn off the power and unplug the AC adapter connector from the power outlet if the printer has a smoke or unusual smells. Or it may cause a fire or an electric shock. And then contact your nearest dealer.

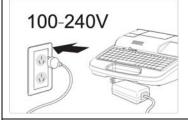|	
	Do not connect to the multiple socket-outletor extension power cord Do not connect the machine to the multiplesocket-outlets or extension power cord, or it may cause a fire or an electric shock. Do not turn on the power while the power cord is kinked, or it may cause a fire or an electric shock.
	Do not use the spray near the machine Do not use flammable sprays near the machine. The spray may contact the parts inside the printer and lead to a fire or an electric shock.
	Do not use paint thinners to clean the printer Please use the cloth dipped with water and wrung it out to clean the printer. Do not use the alcohol, benzene, paint thinner or other flammable solvents. Otherwise, they may come into contact with the electrical components inside the printer, leading to afire or an electric shock.
	Turn off the power before cleaning the printer Before cleaning, turn off the printer and unplug the AC adapter connector from the outlet. If mistakenly turn the power switch to "-", the printer would begin to run and may

|	cause personal injury.
	Use 100-240V AC power Only use under the rated voltage. Please use the AC voltage between 100V and 240V, or it may cause a fire, an electric shock or printer malfunctions.
	Do not use any AC adapter or power cord out of the specified Do not use any AC adapter or power cord out of the specified, or it may cause a fire, an electric shock or printer malfunctions. Do not use the supplied AC adapter for any other products, or it may cause a fire or an electric shock.
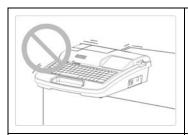
※**Please unplug the power connector from the outlet when there is thunder and lightning nearby**

Please unplug the power connector from the outlet when there is thunder and lightning nearby, or it may cause a fire, an electric shock or printer malfunctions.

※ **Do not damage the AC adapter and power cord**

Do not damage, excessively pull or modify the AC adapter and power cord. Do not place heavy objects on the AC adapter or power cord, or the damaged parts may cause a short circuit, leading to a fire or an electric shock

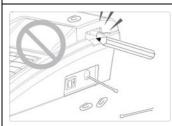# ⚠ Caution

	Do not place the machine on an unstable surface Do not place the machine on an unstable surface or location which is susceptible to vibration, otherwise, the printer may fall or turn over, leading to body injury.
	Do not place the printer on the carpet Do not place the printer directly on a mat or carpet. The fibers and dust of carpet may get inside the printer, leading to a fire.
	Do not insert foreign objects inside the machine Do not insert any foreign objects like paper clips, staples, etc. inside the AC adapter, cutter or printer, or it may cause a fire, an electric shock, printer malfunctions or personal injury.
	Keep the machine far away from the moisture and dust Do not place the machine in a hot, humid, dusty environment, or expose it to direct sunlight or near an open fire, or it may cause a fire or an electric shock. Be sure to keep the printer in the following conditions: Operation environment: 15-35℃, RH 20-85% Storage environment: 5-35℃, RH 20-93%

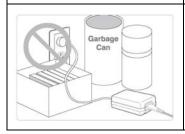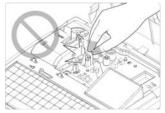|	
	Do not place heavy or metal objects on the printer Do not place heavy objects on the machine, or it may be damaged. Do not place jewelries or other metallic objects, containers filled with water and other liquids on the printer, or these items may come into contact with electrical components inside the printer, which may cause a short circuit, leading to a fire or an electric shock.
	Carefully use the AC adapter When unplug the power cord from the power outlet, hold the plug do not pull the power cord. Or the power cord may be damaged, leading to a fire or an electric shock. Also, be sure to turn the power switch to the "OFF" position before plugging/unplugging the AC adapter.
	Unplug the power connector of the machine when it is not in use Disconnect the power adapter connecter with the power outlet when the printer is not used for a long time. Otherwise, the leakage of electricity may occur, and a fire may occur if the excessive dust is accumulated.
	Please keep the area clean around the AC adapter In order to be able to quickly remove the AC adapter connector in an emergency, do not place any other objects around the power outlet. In the event of an emergency, it may

	cause a fire or an electric shock if the power cannot be cut off immediately.
	Do not touch the print head Do not touch the print head while printing or just after completing the printing, otherwise it may cause burns.
	Do not touch the cutter The machine is equipped with built-in cutter. To avoid personal injury, please read this manual carefully and carefully operate the cutter

※ **Please place the consumables out of the reach of children**

To avoid accidents, make sure that the ribbon cassette, cleanser and other consumables is out of the reach of children.

※ **Please firmly grasp the handles of printer**

To avoid personal injury, please firmly grasp the handles of the printer when carry the printer.

⚠ Caution

	Please handle the printer gently Avoid violent collision of the printer, or the printer may be damaged.
	Do not rudely click the keyboard Do not rudely click the keyboard, or it may damage the printer.
	Do not reuse the ribbon and label tape Do not attempt to reuse the ribbon or label tape, or it may damage the printer.
	Do not try to pull out the tube Do not pull the tube or label tape during printing, or it may affect the print quality or cause malfunctions.

	Do not touch the ribbon Do not touch the ribbon, or the skin oils may lead to undesirable print results or your hands may be dirtied.
	Please only use the dedicated ribbon cassette Please only use the dedicated ribbon cassette, tube holder, etc. Never attempt to disassemble the ribbon cassette and install a new ribbon, or it may affect the print quality or damage the machine.
	Do not insert the cable into the printer The machine is used to print on tubes or labels. The machine cannot print directly on the cables or wires, so do not attempt to insert the cable or wire into the printer for printing, or it may damage the machine.
	Do not touch the connector (metal part) Do not touch the connection terminal of ribbon cassette (metal part), or the ribbon cassette may not be recognized correctly.
※ **Do not place the printer in idle status for a long time** Do not expose the printer directly to the sunlight or place it in other extreme environments for a long time.	

Warning

This is a grade A product. In the living environment, this product may cause radio interference. Under this situation, the user may need to take feasible measures to the interference.

Contents

1 Product introduction

1.1 Brief introduction

BEE200 series printer, with exquisite appearance and perfect performance, is an ideal device for printing cable marks. It adapts thermal transfer printing technology and its print accuracy is up to 300DPI, it is used in all industry fields that involve cable marks, such as switches, engines, machine tools, electric power, telecommunications, steels, etc. And the printed tubes and labels are waterproof, colorfast, lightfast and with high durability.
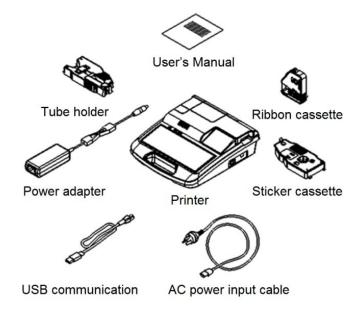
Main features:

➢ Thermal transfer printing;

➢ Operation is easy and quick;

➢ Support several paper types like tubes, labels, etc. ;

➢ Higher productivity;

➢ Easier standard keyboard input configuration, large screen text selection, more convenient operation;

➢ Range printing and stop during printing.

➢ 200 sets of internal memory, with a capacity of up to 12 million characters;

➢ The printed tubes can be automatically half cut or full cut;

➢ Support to upload files from U disk, making the edit more easier and faster;

➢ Support power-down save, reducing duplication of work;

➢ The C-190T and C-190E configurations support online upgrading via the computer, and the C-190T also supports
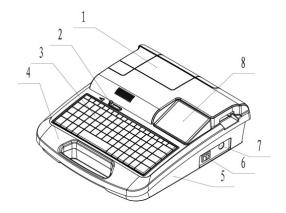
on-line printing via the computer.
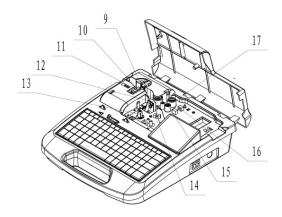
1.2 Unpacking and checking
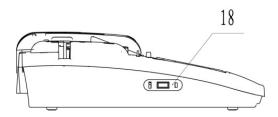
Open the carton and check whether all items listed on the packing list are included or have any damages. In case of damages or missing items, please contact your dealer or the manufacturer. (USB communication cable is specially configured for C-190T)

1.3 Appearance and module
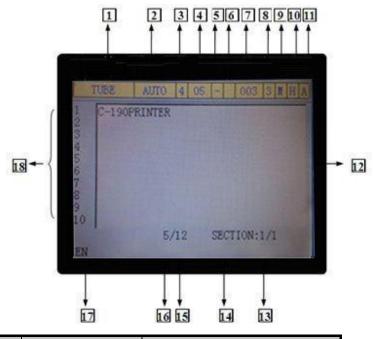
No.	Name	Function explanation
1	Top cover	Close the top cover during printing
2	Cover open spanner	Move it leftward to open the top cover
3	Keyboard	Input the text to be printed and setting information through the keyboard.
4	Middle cover	The product cover.
5	Bottom cover	The product cover.
6	Power switch	Control the power on and off status. Press "O" to turn off the power, and press "－" to turn on the power.
7	Power interface	Connect the AC power input cable.
8	LCD	Display the text input or setting information.
9	Cutting board	Half cut and full cut switching.
10	Cutter	Half cut and full cut the consumables.
11	Platen roller	Enables the printing function.
12	Print head	Perform the printing via heating the ribbon.
13	Ribbon rewinding roller	To rewinding the ribbon.
14	Ribbon sensor	Detection the ribbon status.
15	Floating roller for paper feeding	Help to feed the consumables.

16	Paper feeding sensor	Detect the tubes, labels and other medias.
17	Roller for transporting the tubes	Transport the consumables.
18	USB interface	Support to import data from U disk; support online upgrading via PC; C-190T configuration also supports online printing via connecting the PC with data cable.

1.4 LCD display explanation

No.	Text prompt	Explanation
1	Material	The type of currently selected consumables.
2	Section length	The length of section that cursor locates.
3	Font size	The font size of section that cursor locates.
4	Character spacing	The spacing between characters in the section that

		cursor locates.
5	Direction	The current print direction settings.
6	Decoration	Can add borders, underline, or cancel the decoration.
7	Repetition	The repetition times of section that cursor locates.
8	Darkness	The current print darkness settings.
9	Speed	The current print speed settings.
10	Half cut	Current settings of half cut, split line or not setting
11	Uppercase/Lowercase	Current uppercase or lowercase input settings.
12	Text edit box	Edit the printable text content.
13	Editable section	Total section quantities that can be supported by the product.
14	Current section	The number of section that cursor locates.
15	Total character quantities of section	The total character quantities of section that cursor locates.
16	Character position	The position of character in the section that cursor

		locates.
17	Input method	The current input method settings.
18	Section mark	The current section mark displayed by the LCD screen.

1.5 Keyboard explanation

Key	Function and operation instructions
Cancel	Cancel the current setting and return to the edit interface; or cancel and close the pop-up window.
Material	Set the type of consumables, select it with the direction key and confirm with the enter key. The top status bar will update to the current settings after confirmation.
Section length	Set the length of section currently edits. Only numbers can be input, the top status bar will update to the current settings and the printer returns to the edit interface after confirming with enter key. If the number is out of the range, the printer will beeps for a short time.
Font size	Set the font size (total 8 sizes) during printing, select it with the direction key and

	confirm with the enter key. The top status bar will update to the current settings and the printer will return to the edit interface after confirmation. When the automatic font size is selected, the system will select the largest possible font size for printing basing on the specification of current consumables and section length.
Character spacing	Set the character spacing during printing, input the number and confirm with the enter key. The top status bar will update to the current settings and the printer will return to the edit interface after confirmation.
Number of rows	When edit the print contents, click the [rows] key, a special line break will be inserted at the current cursor position. The line break cannot be inserted continuously, and the quantity of line breaks that can be inserted depends on the specification of consumables and font size. Only 3 rows can be printed at the most.
Direction	Set the print orientation, select it with the direction key and confirm with the enter key. The top status bar will update to the

	current settings and the printer will return to the edit interface after confirmation.
Decoration	Set the print decoration, add a border or underline for the characters and confirm with the enter key. The top status bar will update to the current settings and the printer will return to the edit interface after confirmation.
Serial No.	Set the print serial number, select it with the direction key and confirm with the enter key. In the pop-up box that set the start and end position for serial number settings, input the start position, and then move the cursor via the direction key to the end position, and finally select the confirmation or cancellation operation via pressing the direction key. After confirming with the enter key, the printer will return to the edit interface and insert a special symbol for serial number at current position. Only one symbol for serial number can be inserted in one section.
Repetition	Set the repetition times of current section to print and confirm with the enter key. The top status bar will update to the current settings and the printer will return

	to the edit interface after confirmation.
Darkness	Set the print darkness and confirm with the enter key. The top status bar will update to the current settings and the printer will return to the edit interface after confirmation.
Typesetting	Set the print typesetting and confirm with the enter key. The printer will return to the edit interface after confirmation.
Half cut settings	Set cut options and half-cut depth adjustment, and confirm with the enter key. The top status bar will update to the current settings and the printer will return to the edit interface after confirmation.
File	1) Store the local file: User the enter key for confirmation. Input the user-defined file name in the dialog box, and choose store or cancel. The local files can be browsed from the browser options of printer. 2) Browse the local file: Enter the file browsing system after confirming with the enter key, and the screen will display all the files and folders. The [Delete all] key can be used to delete the selected files; the [Enter] key can be used to enter the current directory or open the current file to

	the edit interface; The [Backspace] key can be used to return to the previous menu. 3) Clear the machine's memory: Delete all the files stored in the machine's memory after confirming with the enter key. 4) Open the U disk: List all the files and folders stored in the U disk. The operation is the same as that of local file browsing. 5) Connect to a PC: Connect to the PC after confirming with the enter key. It is an optional function according to different models.
Settings	Set the speed, sound, brightness, 69 underline and other options for the printer, and restore the factory settings or query the information of distributors.
Delete all	Support two operations: delete all, only delete the text. Wherein, the operation of "delete all" will delete both the text and the attributes of corresponding section.
Stop	Stop all the print tasks that have not entering the print buffer. The print tasks that have entering the print buffer will be continued.
Uppercase/Lowercase	Switch uppercase/lowercase input mode

	under the edit menu. The button will become effective immediately, and the display area of status bar will be updated.
Chinese/English symbol	Switch the input method. The button will become effective immediately, and the current status of input method at the left bottom of screen will be updated.
Print range	Set the print range of current edit document. Input the serial number of start section, and then switch via the direction key to input the serial number of end section, and finally select the confirmation or cancellation operation via the direction key. If the serial number of start section is bigger than that of the end section, the printer will beeps for a short time to give an error alarm during the confirmation.
Print quantity	Set the number of copies of all print jobs.
Print	Print the edited and set contents. Confirm the print via the [Print] or [Enter] key, or cancel the print via the direction key or the [Cancel] key,
Superscript	Input the superscript or subscript at the current position. One special symbol of superscript or subscript will be inserted at the current edited page if press the [Superscript] or [Subscript] key. The
Subscript	

	printer will beeps for a short time to give an error alarm for continuous superscript / subscript symbol insertion. One superscript/subscript symbol can only be inserted when it follows the valid character, and each superscript / subscript is effective only to the first character that followed.
Test	Print the test contents and calibrate the print length.
Section delete	Delete the section that the cursor locates currently, including the attributes of the section in the system.
End of content	Quickly move the cursor to the end of edited contents.
Head of content	Quickly move the cursor to the start of edited contents.
Reversal rotation	The motor rotates and exit consumables.

2 Install the printer and consumables

2.1 Install the printer

2.1.1Installation position

Flatly place the printer on the operation plane, which must be water-proof, moisture-proof and dust-proof. The maximal tilted angle should not exceed 15° during installation.

2.1.2 Connect the power adapter

1) Ensure the printer power is turned off;
2) Connect one end of the AC power input cable with the power adapter, and insert the other end of power adapter into the power interface on the side of printer;
3) Insert the other end of AC power input cable into the 220V power socket.

⚠ **Caution:**

■ If leaving the printer idle for a long time, please disconnect the power of printer.

2.1.3 Connect the communication cable (optional)

1) Ensure the printer power is turned off
2) Insert the communication cable into corresponding interface;
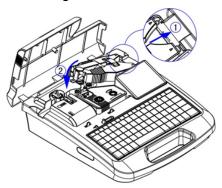3) Connect the other end of communication cable with the PC.

2.2 Install and disassemble the tube holder

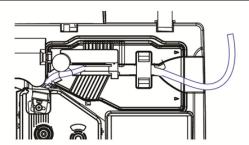### 2.2.1 Install the tube holder

1) Pull the cover open lever in the direction shown in the figure to open the top cover, make sure that the print head is lifted up and there is no label tape, ID bar and other consumables;

2) Insert the lock tongue of tube holder in the corresponding slot of printer, and then press down the other end of the tube holder until you hear a clicking sound;

3) Insert the tube in the bending direction shown in the figure until the front end of tube touches the print platen roller;

4) Close the top cover until you hear a clicking sound, and make sure it is in lock status.
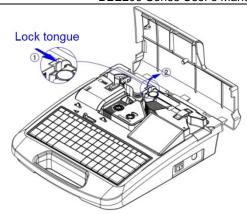
⚠ **Caution**

■ Pay attention to the bending direction when insert the tube, so as to avoid tube feeding failure.

2.2.2 Disassemble the tube holder

1) Pull the cover open lever in the direction shown in the figure to open the top cover, and make sure that the print head is lifted up;

2) Press down the left lock tongue of tube holder and pull the tuber holder upward to take it out as shown in the figure;
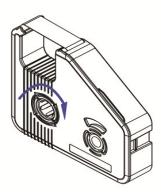
3) Pull out the right lock tongue of tube holder from the slot of printer.

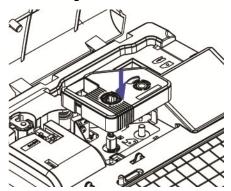## 2.3 Install and disassemble the ribbon cassette

2.3.1 Install the ribbon cassette

1) Wind the ribbon tightly in the direction shown on the ribbon cassette;

2) Open the top cover and ensure the print head is lifted up, and then take out the tube, label tape and other consumables;

3) Press the ribbon cassette in the direction shown in the figure until you hear a clicking sound;
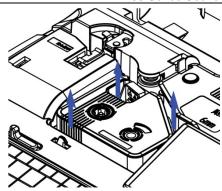

4) Close the top cover until you hear a clicking sound, and make sure it is in the lock status.

2.3.2 Disassemble the ribbon cassette

1) Open the top cover and ensure the print head is lifted up, and then take out the tube, label tape and other consumables;

2) Press at the positions shown with arrows and pull the ribbon cassette upward to take it out;

3) Install one new ribbon cassette in the method introduced in
    section 2.3.1.
    Caution
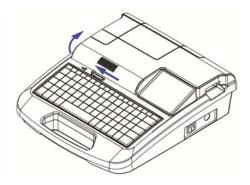
■ Make sure the ribbon is wound tightly before install the ribbon
    cassette;

■ Do not touch the metal parts of chip of the ribbon cassette, in
    order to avoid unrecognized ribbon;

■ Avoid ribbon wrinkles or damage during ribbon installation.
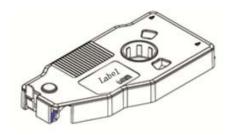
2.4 Install and disassemble the label cassette

2.4.1 Install the label cassette
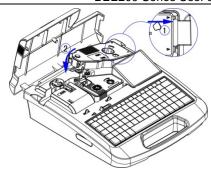
1) Pull the cover open lever in the direction shown in the figure to
    open the top cover, make sure that the print head is lifted up and
    there is no tube holder;

2) Gently pull the label out from the label cassette and align it with the front side of label cassette.

3) Insert the lock tongue of label cassette in the corresponding slot of printer, and press down the other end of the label cassette until you hear a clicking sound;

4) Make sure the label head touch the print platen roller, and then close the top cover to lock status.

   Caution ⚠
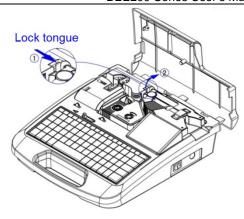
■ Do not touch the metal parts of chip of the label cassette, in order to avoid unrecognized label;

■ Avoid label wrinkles or damage during label installation.

2.4.2 Disassemble the label cassette

1) Open the top cover and make sure the print head is lifted up;

2) Press down the left lock tongue of label cassette and pull the label cassette upward to take it out;

Lock tongue
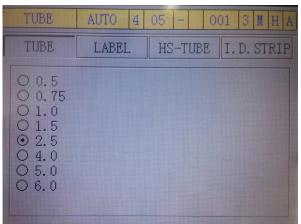
3)   Pull out the right lock tongue of label cassette from the slots.

3 Basic operation

3.1 Print with tube or heat shrinkable tube
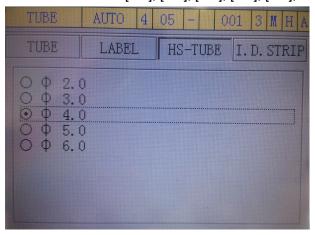
1) Install the printer, tube holder and ribbon cassette, referring to section "2 Install the printer and consumables";

2) Insert the tube or heat shrinkable tube in the tube holder until its head touches the print platen roller, and then close the top cover until you hear a clicking sound, indicating it is in lock status;

3) Turn on the power switch, click the [Material] key, and then the screen will display:
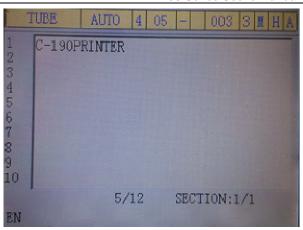
Note: Before turning on the power switch, make sure the ribbon cassette and tube are installed correctly, the top cover is closed and the AC adapter is properly connected.

Select [TUBE], the screen will display the specifications of tube: [0.5], [0.75], [1.0], [1.5], [2.5], [4.0], [5.0], [6.0];

Or select [HS-TUBE], the screen will display the specifications of heat shrinkable tube: [2.0], [3.0], [4.0], [5.0], [6.0];
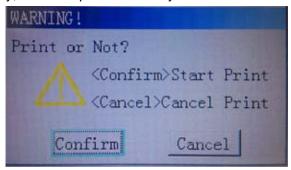
4) Correctly select the specification of installed tube or heat shrinkable tube with the [ ] or [ ] key, and enter the text input interface via pressing the enter key to edit the contents to be printed.

5) Press the Chinese/English symbol to switch the input method, Input the letter, number, Chinese or English symbol, such as: sequentially input C, -, 1,9,0, PRINTER, and then the screen will display [C-190 PRINTER] as following:

It will automatically generate another section if you press the [Enter] key, and then you can edit the contents to be printed in the same way.

6) After editing, it will pop-up the following warning page if you press the [Print] key, select "Confirm" or "Cancel" with the [⟶]or [⟵] key, and then press enter key to confirm.

7) After completing the printing, it will automatically return to the text input screen.

Explanation:

Font Size: If the font size does not be set, it will be the default font size; if the selected font size exceeds the specification of consumables, it will prompt font error;

Section length: If the section length does not be set, default section length is set. if you input the contents to be printed before setting the section length, and the contents exceed the section length value, then it will pop-up setting error window.

Character spacing: If the character spacing does not be set, it will be the default setting 05;

Repetition: If the repetition time does not be set, it will be the default setting 1.

Explanation:
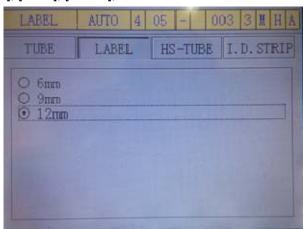
➢ For 0.5Ø tube, the single line can be printed with words of size1 and 2;

➢ For 0.75Øtube, the single line can be printed with words of size 1, 2 and 3;

➢ For 1Ø tube, the single line can be printed with words of size1, 2, 3, 4;the double lines can be printed with words of size 1;

➢ For 1.5Øtube, the single line can be printed with words of size1, 2, 3, 4, 5; the double lines can be printed with words of size 1, 2;

➢ For 2.5Øtube,the single line can be printed with words of size1, 2, 3, 4, 5; the double lines can be printed with words of size 1, 2; and the three lines can be printed with words of size1;

➢ For 4Øtube, the single line can be printed with words of size1, 2, 3, 4, 5, 6;the double lines can be printed with words of size1, 2; and the three lines can be printed with words of size 1;

➢ For 5Ø tube, the single line can be printed with words of size 1, 2, 3, 4, 5,

6, 7;the double lines can be printed with words of size1, 2, 3; and the three lines can be printed with words of size 1;

➢ For 6Ø tube, the single line can be printed with words of size 1, 2, 3, 4, 5, 6, 7;the double lines can be printed with words of size1, 2, 3; and the three lines can be printed with words of size 1, 2;

➢ For 2Ø heat shrinkable tube, the single line can be printed with words of size 1, 2, 3, 4, 5; and the double lines can be printed with words of size1, 2;

➢ For 3Ø heat shrinkable tube, the single line can be printed with words of size 1, 2, 3, 4, 5; the double lines can be printed with words of size1, 2; and the three lines can be printed with words of size1;

➢ For 4Ø heat shrinkable tube, the single line can be printed with words of size 1, 2, 3, 4, 5, 6; the double lines can be printed with words of size1, 2; and the three lines can be printed with words of size1;

➢ For 5Ø heat shrinkable tube, the single line can be printed with words of size 1, 2, 3, 4, 5, 6, 7; the double lines can be printed with words of size1, 2, 3; and the three lines can be printed with words of size1, 2;

➢ For 6Ø heat shrinkable tube, the single line can be printed with words of size 1, 2, 3, 4, 5, 6, 7, 8; the double lines can be printed with words of size1, 2, 3, 4; and the three lines can be printed with words of size1, 2.

3.2Print with label
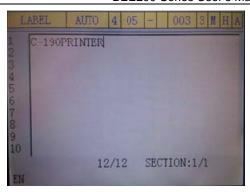
1) Referring to "2 printers and consumables Install" to install the printer, label box and ribbon box;

2) Turn on the power switch, the boot and click [material] key and select [Label], the screen will display the label specifications:

[6mm], [9mm], [12mm]; as follows:

Note: Before you turn on the power switch, make sure that the ribbon box is installed correctly and top cover close. The AC adapter is properly connected.

3) Make the right choice via pressing [↑], [↓] in accordance with the specifications of label having been installed. Press the [ENTER] key to enter the text input interface, you can edit the content to be printed.

4) Press the [Chinese / English / symbol] key to switch the input method.Input letters, numbers, Chinese or symbols, such as: sequentially input C, -, 1,9,0, printer, and the screen will display [C-190 printer]as follows:

Press [Enter] key and it will automatically generate the next section, edit the content to be printed in the same way.

5) After editing, press the [Print] key. The pop-up window displaysthe following warningor by [→], [←] keys to select "Continue" or "Cancel" andconfirm with the [Enter] key;

6) After printing, automatically return to the text input screen.

Explanation:

➢ For 6mm label, the single line can be correctly printed with words of size 1, 2, 3, 4, 5;

➢ For 9mm label, the single line can be correctly printed with words of size 1, 2, 3, 4, 5, 6, 7, 8;

➢ For 12mm label, the single line can be correctly printed with words of size 1, 2, 3, 4, 5, 6, 7, 8;
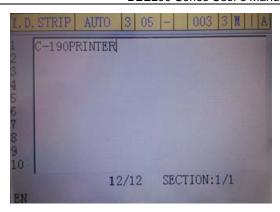
3.3Print with ID strip

1) Referring to"2 printers and consumables Install" to install the printer, ID strip box and ribbon box;

2) Turn on the power, press the [Material] key and choose [ID strip], the screen will display:
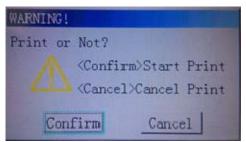
Note: Before turning on the power, make sure that the ribbon box is installed correctly, the top cover is close, and the AC adapter is properly connected.

3) Enter the text input interface with [Enter] key and edit the content to be printed;

4) Press the [Chinese / English / symbol] key to switch the input method.Input letters, numbers, Chinese or symbols, such as: sequentially input C, -, 1,9,0, printer, and the screen will display [C-190 printer] as follows:

Press [Enter] key and it will automatically generate the next section, edit the content to be printed in the same way.

5) After editing, press the [Print] key. The pop-up window displaysthe following warning, or by [→], [←] keys to select "Continue" or "Cancel" andconfirm with the [Enter] key;
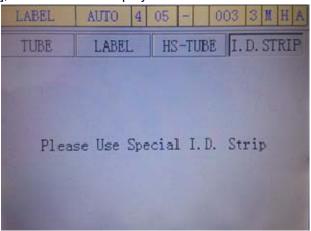

6) After printing, automatically return to the text input screen.

Explanation:

➢ The ID strip can be printed only in single line with words of size 1, 2, 3.

4 Function key operation

4.1 Material selection and input method switch
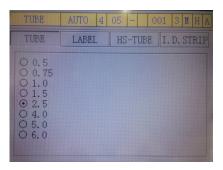
4.1.1 Material selection

To achieve the best printing results, choose the right material options according to the consumable specification. The printer series can support tube, heat shrinkable tube, label and ID strips. Specifications of various consumables are as follows:

Tube: [0.5],[0.75],[1.0],[1.5],[2.5],[4.0],[5.0],[6.0];

Heat shrinkable tube: [2.0],[3.0],[4.0],[5.0],[6.0];

Label: [6mm],[9mm],[12mm];

ID strip: special for this printer

Turn on the power, click the [Material] button, and the screen will display:

Switch among the tube, label, heat shrinkable tube and ID strip via [   ] and [   ]keys and make a correct choice via[   ] and [   ], and then press the [Enter] key to enter the text input interface. At this time, in the LCD screen, current type of consumable displays at the "Material" status area.

4.1.2Input method switch

The printer series can support number, English character, Chinese character, general symbol. Turn on the powerand switch the input method via the [Chinese/English/character] key, the input method will display at the bottom left of screen. The interpretation is as follows:

English: Current input method is English;

Full pinyin: Current input method is full pinyin; press [→] and [↓] keys to turn the page and confirm with the number key;
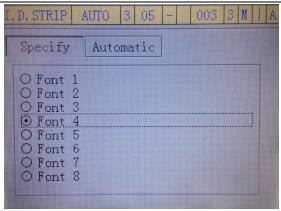
Double pinyin: Current input method isdouble pinyin; press [→] and [↓] keys to turn the page and confirm with the number key;

Symbol input:Current input method issymbol. Select the symbol types via 0～9 number keys (electrical symbols are on the number 0). press [→] and [↓]keys to turn the page and confirm with the number key.

4.2 Change the character size and the space

4.2.1Change the character size

The printer series can change the character size according to the needs. It can set the [Specified font size] or [Automatic font size], and it supports font size of [1],[2],[3],[4],[5],[6],[7],[8].

1)   Input characters;

2)   Press the[font]key, and the screen will display:

```
I.D.STRIP  AUTO  3  05  -    003  3  M    A

  Specify    Automatic

    ○ Font 1
    ○ Font 2
    ○ Font 3
    ⊙ Font 4
    ○ Font 5
    ○ Font 6
    ○ Font 7
    ○ Font 8
```

3) Set the font size:

   ➢ Specified font size

   Click[ ] and [ ] keys to choose the specified font, and the sectionin whichthe cursor locates will be set to the selected font size via pressing the [Enter]key and automatically return back to the text input interface. There is no change of characters already input in the text edit box, but the font size area in the screen displays the current font size.

   ➢ Automatic font size

   This function means that the printer will adjust the font size automatically after setting a specified section in order to ensure effective input and uniform length of material.

   Choose [Automatic font size] and press the[Enter]key, and the section in which the cursor locates and all subsequent sections will be automatically set to the[Automatic font size] and return to the text input interface.

Explanation:

1) Automatic font size does not work after setting automatic length.

For example, after setting automatic length, if you select automatic font size via the font size function and press the "Enter" key, the printer will prompt: The section length and the font size cannot be set to automatic at the same time. Click the Cancel key to return;
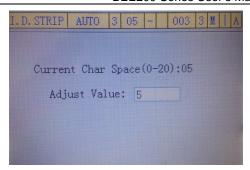
2) When the printer automatically reduces the font to size 1, and the section length is not enough for writing what you want to input, the printer will prompt: section content is too long;

3) When the selected consumable cannot print the selected font size completely, the selected font size is invalid, and the buzzer will alarm at this time;

4) Similarly, if you set the font size firstly, and then set the consumable specification, when the font size cannot be print completely, the selected consumable specification is invalid, and the buzzer will alarm at this time;

5) The above prompts and alarms can be canceled by pressing the [Cancel]key and be reset.

4.2.2Change the character space

Printer can change character space according to the demands.
There are 0～20 different character space can be chosen. The initial default character space is 05.

1) Input characters;

2) Press the [Character space]key, and the screen will display:

Directly input the character space to be set and press the [Enter]key, and then the character space of all sections are be set and the printer returns to the text input interface automatically.

Explanation:

1)   When the selected character space is too large, the screen will prompt: [increasing character space causes too long section content, press the[Cancel]key to return. At this time, you can press the Cancel key to return to the text input interface and reset the value;

2)   For the character space 0-20, the distance between characters is increased gradually.

4.3Change the section length and the number of rows

4.3.1Change the section length

The printer can change the section length according to demands. It can set the [Set length], [Auto length], [Adjust length]
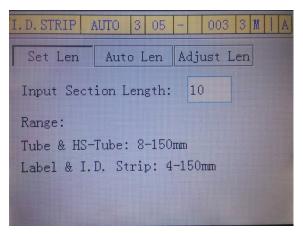[Set length]: The tube and the HS-tube support 8-150mm, the label and the ID strip support 4-150mm;

[Adjust length]: the adjustable value range is 0-100mm.

Note:

1) The section length can be changed into integer value only;

2) The specified section length and the automatic section length are effective to the section in which the cursor locates and its subsequent sections, the total length adjustment is effective to all the sections in current document.

    a) Input characters;

    b) Press the [Section length]key to enter the section length setting interface;

    c) Set the section length:

➢ Set length

Select the [Set length] and press the [Enter]key, the screen will display:

Directly input the section length to be set and press the [Enter]key, then the section in which the cursor locates and the subsequent sections will be set to the specified length, and the printer will automatically return to the text input interface.

For example: Input[10] to set the section length to 10mm.

Explanation:

1) If the section length cannot print the whole characters completely, the screen will prompt: there is a conflict between the already input character quantity and the current settings;

2) When the section length is specified, if the input character quantity has already reached to maximum quantity allowed, the screen will display: section is full, please check the section length.

➢ Auto length

The function means that the section length will produce automatically according to the input letters, Chinese words, characters, symbols, font size and character space.

Select the [Auto length] and press the [Enter] key, then the section in which the cursor locates and the subsequent sections will be set to the automatic length, and the printer will automatically return to the text input interface
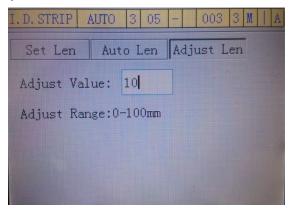
Explanation:

Automatic section length does not work after setting automatic font size. For example, after setting the automatic font size, if you select automatic section length and press the "Enter" key, the printer will prompt: The section length and the font size cannot be set to automatic at the same time. Click the Cancel key to return.

➢ Adjust length

This function is used to adjust the total print length.

Select [Adjust length] and press the [Enter]key, then the screen

will display:

Directly input the value for adjustment at the cursor and press the[Enter]key to complete the total length adjustment setting, and then the printer will return to the text input interface automatically.

For example:

Set the section length to10mm repeatedly for 20times, then the total print length is set to 200mm. If the actual print length is 190mm, you can adjust the length in following method:

✧ Calculate the difference between the set print length and actual print length: 200-190=10;

✧ Press the[Section length] key, select the [Adjust length] key and press the [Enter] key, and then input [10] at the cursor and press the [Enter] key to complete the total length adjustment and return to the text input interface.
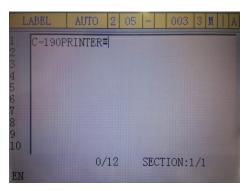
Explanation:

The total length adjustment setting is effective only to the current content printing operation.

4.3.2Set the number of rows

The default setting of C-190 printer series is single line. If you need to set two or three lines, you can operate in the following steps:

1) Enter the text input interface and edit the first line of content, e.g. input "C-190 PRITNER";

2) Press the [Row]key and insert a line break, it will switch to the second row and the screen is shown as follows:

3) Input contents in the second line;

Explanation:

Support maximum three lines, details are depending on the selected font size and consumables.
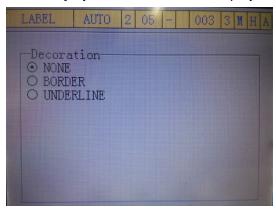
4.4Character decoration and delete

4.4.1Character decoration

The printer can add a border or an underline to the content and can also cancel the decorations.

Note: After setting the decoration, the section in which the cursor locates and all its following sections are decorated in the same way.

1) Input characters;

2) Press[Decoration]key, and thescreen will display:

➢ Add decoration

Press [ ][ ] keys to move the cursor to [add a border] or [add underline], and press the[Enter] key, then the section in which the cursor locates and all its following sections will be added a border or underlines and the printer will automatically return to the text input interface.

➢ Cancel decoration

Press [ ][ ]keys to move the cursor to [cancel decoration],and press [Enter]key, then the section in which the cursor locates and all its following sections will be cancelled the decorations.

4.4.2Character delete

The printer can delete single character, sections or whole content according to the needs.

➢ Cancel the single character

Press the [↑][↓][←][→] keys to move the cursor to the right side of the character that to be deleted, and then press the "Backspace" key to delete the character that before the cursor. Or, move the cursor to the left side of the character to be deleted, and then the single character behind the cursor can be deleted via pressing the[stop]key when there is no printing task;

➢ Delete sections

Press the [↑] [↓] [←] [→] keys to move the cursor to the section that to be deleted and press the [Delete section]key, then the section in which the cursor locates will be deleted. The deleted sections cannot be restored, and the remaining sections will be reordered;
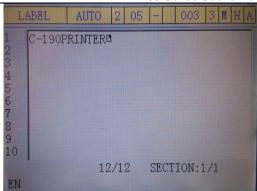
➢ Delete all

Press the[Delete all]key, and then all the current editing contents will be deleted.

4.5Insert the superscript and subscript

The printer can insert superscript and subscript if needed.

1) Input characters "C-190 PRINTER"

2) Move the cursor to the position behind the character that needs to insert the superscript or subscript, and press the [superscript]/[Subscript], and then [superscript] / [Subscript] will appear after the character, referring to the following figure:

```
LABEL  |  AUTO  | 2 | 05 | - |  | 003 | 3 |M|H|A|
1  C-190PRINTER◊
2
3
4
5
6
7
8
9
10
              12/12    SECTION:1/1
EN
```

3) Input superscript/ subscript symbols to complete the insertion.
    For example: Insert superscript 2 behind character 7, then the
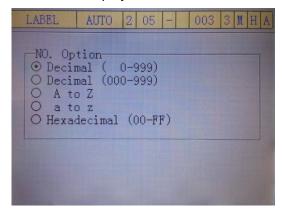   print result is 7^2.

Explanation:

1) Each time you press the [Superscript]/[Subscript], only one
    superscript / subscript can be inserted. If you want to insert
    several superscript / subscript, then you need to press the
    [Superscript] / [Subscript]repeatedly.

2) Character of Font 1 size cannot be inserted with superscript /
    subscript symbols.

3) The superscript / subscript symbol cannot be used as the first
    character in the section.

4.6Insert the serial number

The printer can insert serial number at any position in one section if
needed, achieving the serial number printing function. By inserting
defined values or letters, automatically generate continuous section
contents according to certain rules, and the numerical numbers are
decimal numbers.

Note: The serial number printing can be set only once for one section.

1) Input the characters "C-190 PRINTER"

2) Move the cursor to the position in the section where needs to print with serial number, and press the[Serial number] key, then the screen will display:

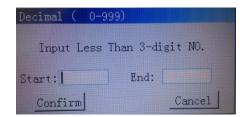3) Insert the serial number:

➢ Insert the numerical serial number

The printer has two forms of serial number:

Form 1 of Serial number: 0-999, such as 0, 1, 2, 3……999;

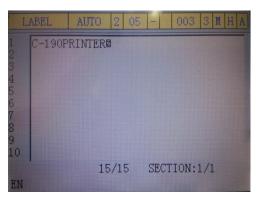Form 2 of Serial number: 000-999, such as 000, 001, 002……999

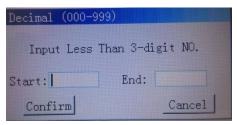Form 5 of Serial number (hex):00-FF, such as 00, 1A, 2C……FF.

Press[ ][ ]keys and select the number [0-999], press the [Enter] key, and then the screen will display:

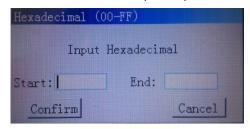Input the start number, and press [   ]key to continuously input the end number, and then press the [   ] key to switch to the [Confirm] or [Cancel] key. Press the[Enter]key, the printer will automatically return to the text input interface and one serial number character is inserted at the position, referring to the screen:

Similarly, if select the form 2 of Serial number (000-999), the screen will display:
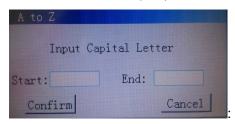
If select the form 5 of Serial number (00-FF), the screen will display:
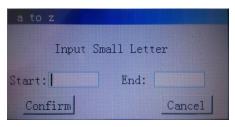
➢   Insert the serial number with letters

The printer has two forms of serial number with letters, capital English letters and small English letters. The insert method is the same as the numerical number, as well as the letter symbol display method, except the prompts on the screen, referring to the followings:

If select form 1 of serial number (A-Z), screen will display:

If select form 2 of serial number (a-z), screen will display:
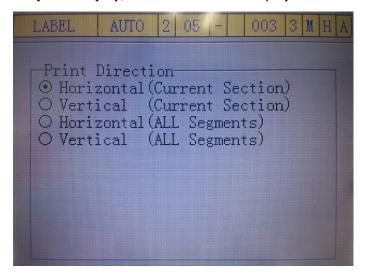
4.7 Print page layout

4.7.1 Change the print direction

The printer can change the direction of printing if needed, choosing horizontal or vertical print. The initial default setting is horizontal print.

Note: It is recommended to set the print direction before inputting the printed text, to avoid the printing error causing by changing the direction after inputting the text.

1) Press[Direction]key, and the screen will display:
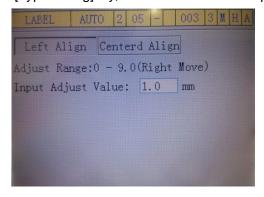
2) Press[ ][   ]keys to select one of these options and press the [Enter]key, then the section in which the cursor locates or all the sections will be set to the selected print direction, and the printer will automatically return to the text input screen.

4.7.2Typesetting of print page

The printer can set the typesetting of print page according to the needs. You can choose centered alignment, left alignment, or adjust the print position (see 4.13) if needed. The initial default setting is left alignment, without print position adjustment.

1) Input characters;

2) Press the [Typesetting]key, and the screen will display:
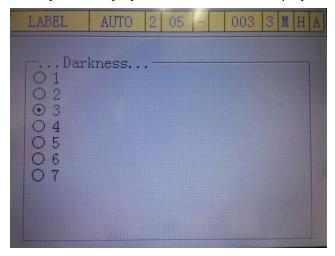
3) Set the page typesetting via pressing the [ ][ ]key: ➔ ←

  ◇ Select the [Left alignment] and press the [Enter] key, the print content will be left-aligned and the printer will automatically return to the text input interface;

  ◇ Select the [Centered alignment] and press the [Enter] key, the print content will be center-aligned and the printer will automatically return to the text input interface;

  ◇ If you want to adjust the left-aligned distance, input the amount of adjustment in the blank space below the [Left alignment] and press the[enter]key.

4.8Change the print darkness

The printer can set different print darkness according to the needs.
You can choose seven darkness of [1], [2], [3], [4], [5], [6], [7].

1) Input characters;
2) Press the [Darkness]key, and the screen will display:

Press the [ ][ ]keys to select and press the [Enter]key to complete the settings, and then the printer will automatically return to the text input interface.

Explanation:

For [1], [2], [3], [4], [5], [6], [7], the print darkness is increased gradually.

4.9Adjust the actual print length

Due to the different environmental factors or materials produced by different manufacturers, the actual length may be slightly different from the set length. If the difference is too large, the printer can be adjusted via the test functions to achieve same length.

1) Input characters;

2) Press the[Test] key, and the screen will display:

Press [ ][ ]keys to select the right consumable, press the [ ]key to switch, and input the print length, and then press [ ] key to switch to the [Confirm] key, the printer will start printing after pressing the [Enter]key.

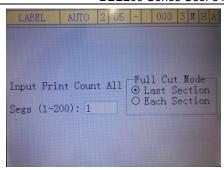3) After printing, input the actual measured print length in the new interface, and press the [Enter]key to complete the setting.

4.10 Set the print count and print range

The printer can set the number of print copies and print range as needed, and it can also set the repeat times when print the section.

4.10.1 Print count

1) Input characters;

2) Press [Print count]key, and the screen will display:
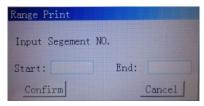
Directly input the print count and press the[Enter] key, the printer will automatically return to the text input screen.

Full cut mode can also be set on this screen via pressing the[ ][ ][ ][ ] keys.↓ → ←

4.10.2 Print range

1) Input characters;
2) Press the [Range print] key, and the screen will display:
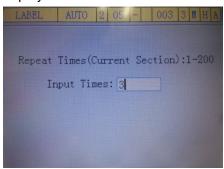
Input the start and end sections, and press the[Enter]key, then the printer will begin the printing.

If not input the start section, the first section will be considered as the start section. If not input the end section, the last section will be considered as the end section; if not input the start and end sections, then the printer will print from the first section to the last section of the text.

4.10.3Repeat print

1) Input characters;
2) Press [ ][ ]keys to move the cursor to the section which needs to print repeatedly. Press the [Repeat]key, and the screen will display:

Directly input the times you want to repeat and press the [Enter]key, then the section in which the cursor locates will be printed repeatedly and the printer automatically return to the text input interface.

If the value of times entered is beyond the scope of repetition, after pressing the [Enter] key, the printer will not return to the text input interface and the buzzer will beeps for a short time, at this time, press the [Backspace] key to delete the value and re-enter.

Explanation:

1) The printer repeat range is 1-200 times, and the initial default setting is 1.
2) The setting of repetition times is only effective to the section in which the cursor locates.

4.11 Stop printing and inverse platen roller

4.11.1 Stop printing

The printer can stop printing during the process of printing as needed.

Press the [Stop]key during the process of printing, and the screen will display:

Explanation:

1) In the process of printing, only the [Stop] key works, while the other keys do not work;

2) The task that already entered the print buffer will not stop printing until the printing is finished.

4.11.2 Inverse platen roller

If the print material is wound on the roller due to material differences or incorrect operation, the printer can be set to reverse the platen roller in order to remove the print material.

In the case that the print material is wound, press the[Reverse] key, and the platen roller will rotate inversely. Repeat this operation until remove the print material.

Explanation:
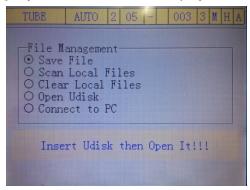
Before the inversion operation, make sure that the top cover is closed.

4.12 File operations

4.12.1 Local file operation
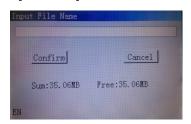
With the printer's own keyboard, the user can edit the print text and store it in the printer; or browse the edited text stored in the printer; or clear the printer's memory.

Press the [File] key, and the screen will display:

Press the [ ] [ ]keys to select an option and press the [Enter]key to make a confirmation.

If select the option of [Save file], the screen will display:
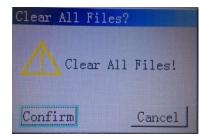
Press the[Chinese/English/ symbol]key to switch the input method, and to input a file name. Press the [ ][ ] keys to select the" Confirm" or "Cancel" key, the printer will return to the file

management interface after pressing the [Confirm]key and will return to the text input interface after pressing the [Cancel]key.

If you select the option of [Scan local file], the printer will enter the file list interface after confirmation. Press the[ ][ ] keys to select a file and press the[Enter] key to enter into the file.

If you select the option of [Clear local files], the screen will display:

Press the [ ][ ] keys to select the" Confirm" or "Cancel" key, the printer will return to the file management interface after pressing the [Confirm]key and will return to the text input interface after pressing the [Cancel]key.

Explanation:
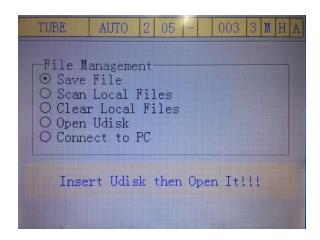
If confirm the option of [Clear local files], all files stored in the printer will be deleted and the memory will become empty.

4.12.2 U disk file operation (C-190T configuration)

The printer configured with USB communication interface supports the print content be edited in the computer and stored in the U disk, and then select and print the contents via directly inserting the U disk in the printer's USB port.

Press the [File]key after inserting the U disk, and the screen will

display:

Press the [   ]key to select the option of [Open U disk], and press the [Enter]key to make a confirmation.

At this time, the file browser will display all the folders and files in the U disk. Users can turn pages by pressing [   ][   ], and switch the selected file folder or file by pressing[   ][   ], and then press the [Enter] key to make a confirmation. If you select a file, then import the file to the text edit page for editing.

Explanation: The printer only supports import files with text format.

Caution ⚠

■ Before operating with the U disk, make sure the U disk is already inserted.

■ The file imported via U disk should follow the rules: set section attributes firstly, and then import the contents.

Case 1: Before importing the file, there are contents already in the edit box.
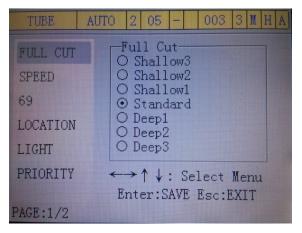
In this case, the existing contents will be deleted if import files from the U disk; the attributes of all the imported contents will be set as that of the last section existing in the edit box before the import.

Case 2: Before importing the file, press the "Delete all" key to delete all the input contents, and set the section attributes.

In this case, the attributes of all the imported sections will be set as that before the import.

4.13 Set menu

Press the [Set]key, and the screen will display:

| TUBE | AUTO | 2 | 05 | — | | 003 | 3 | M | H | A |

```
┌Full Cut─────────────┐
│ ○ Shallow3          │
│ ○ Shallow2          │
│ ○ Shallow1          │
│ ⊙ Standard          │
│ ○ Deep1             │
│ ○ Deep2             │
│ ○ Deep3             │
└─────────────────────┘
```

FULL CUT

SPEED

69

LOCATION

LIGHT

PRIORITY   ←→↑↓ : Select Menu

Enter:SAVE Esc:EXIT

PAGE:1/2

Press the [ ][ ]keys to select the option and press the[Enter]key to make a confirmation. In this interface, you can make the following settings:

[Full cut]: Press the [Enter] key to achieve a single full cut; or press the [ ] key to switch to adjust the full cut depth;

[Speed]: Select low, medium or high speed;

[69]: Add or cancel the underlines to 6 and 9;

[Jam detection]: Turn on or turn off this feature;

[Factory settings]: Restore to the factory default settings;

[Location]: Print position adjustment means that the print position can be adjusted slightly when the print content is not centered or left-aligned due to the effect of materials or external conditions. Range of print position adjustment is -2.0mm to 2.0mm.

[Light]: Adjust the brightness of the screen;

[System upgrade]: Firstly, insert the U disk with firmware, and then select "System upgrade" to update the firmware;

[Sound]: Turn on or turn off the buzzer sounds;

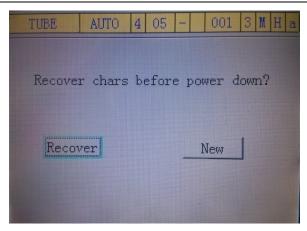[About the printer]: Query the agent information and product firmware version.

⚠ **Caution:**

Turn off the buzzer sound will shield the alarm feature, it is recommended to set the "sound" status for the printer.

4.14 Power down saving

The printer can save the editing contents while power off (shutdown or a sudden power failure), and the screen will display the following information after startup:

Press the [ ][ ] keys to select the [Recover] or [New] key. If select the [Recover] key, the printer will return to the file operation interface before power off after pressing the [Enter]key; if select the [New] key, the printer will return to a new file operation interface after pressing the [Enter]key.

5 Routine maintenance

Clean the print head, print platen roller and sensor every month according to the following steps. If the printer works in a tough environment, the maintenance times can be increased properly.
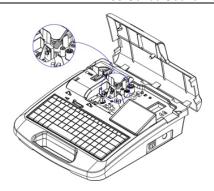
5.1 Clean the print head

When any of the following cases occurs, the print head should be cleaned:

➢ Printout is not clear;

➢ Feed or retract paper with big noise;

➢ Something else sticks onto the print head.

Follow the steps below to clean the print head:

1) Turn off the printer power and open the top cover;

2) Ensure the print head is lifted up, and then take out the tube, sticker and other consumables. Wait for print head to cool down completely if it has just finished the printing;

3) Wipe off the dust and stains on the surface of the print head with cotton ball. If the print head is too dirty, clean it with cotton balls dipped with a few drops of water. Do not use alcohol, benzene or other solvents;

4) Wait for 5 to 10 minutes, and then close the top cover after the water evaporates completely.

5.2 Clean the platen roller and tuber feeding roller

When any of the following cases occurs, the print platen roller should be cleaned:

➢ Printout is not clear;

➢ Feed and retract paper with big noise;

➢ Something else sticks onto the print platen roller and tube feeding roller.

Follow the steps below to clean the print platen roller:

1) Turn off the printer power and open the top cover;

2) Ensure the print head is lifted up, and then take out the tube, sticker and other consumables. Wait for print head to cool down completely if it has just finished the printing;

3) Wipe off the dust and stains on the surface of the print platen roller with cotton ball. If the print platen roller is too dirty, clean it with cotton balls dipped with a few drops of water. Do not use alcohol, benzene or other solvents;
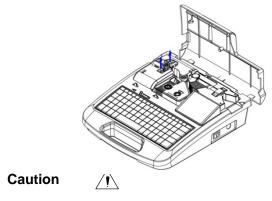
4) Turn on the printer power, press the reverse key for one time, and the print platen roller will rotate backward for half cycle, and then turn off the printer power;

5) Use cloth to wipe off the dust and stains on the exposed semi-cycle of platen roller via reversal;

6) Wait for 5 to 10 minutes, and then close the top cover after the water evaporates completely;

The cleaning method of tube feeding roller is the same as that of print platen roller.

5.3 Replace the cutter

When the tube cannot be cut off whenever adjust the cut depth or adapt full cut, the cutter needs to be replaced. Replace the cutter receiving plate when replace the cutter.

1) Turn off the power, and open the cover;

2) Take out the cutter as follows and install the new cutter;

Caution ⚠
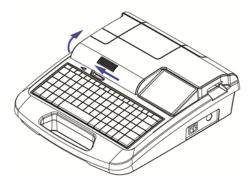
■ Do not touch the blades when replacing the cutter to avoid finger scratch.

5.4 Replace the cutter receiving plate

Steps for replacing the cutter receiving plate:

1) Turn off the printer, and open the cover;

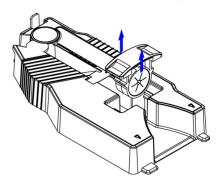2) Take out the cutter receiving plate in the direction shown in the following figure.

3) Insert the new cutter receiving plate.

5.5 Clean/ Replace the tube and its holder

Steps for cleaning / replacing the tube and its holder as following:

1) As shown in the following figure, take out the tube holder and clean the dirty accumulated on the sponge;

2) If the sponge is broken, replace the tube holder (please buy a new tube holder)

⚠ **Caution:**

■ Make sure the power is off before the printer maintenance;

■ Avoid hand and metal objects touching the print head surface. Do not use pliers and other tools scratching the surface of print head, platen roller and sensor.

■ Do not use gasoline ,acetone other organic solvents to clean the print head and platen roller;

■ Turn on the power to continue the printing after the water evaporating completely.
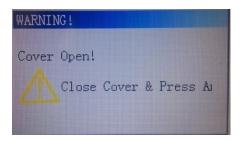
6Trouble shooting

In case of printer fault, consult this section for solutions and advice. If you do not find a solution in this section, please contact your local dealer or the manufacturer.

6.1 LCD status indication
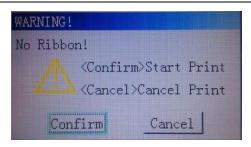
When the printer has errors and under abnormal conditions, the printer will give prompts in words on the LCD screen. Please follow the prompts and refer to the following method to deal with the problems.

1) If the top cover is not closed when start printing, the following dialog box will appear:
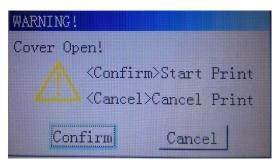
Check whether the top cover is closed tightly. Press any key for confirmation if the top cover is closed tightly, and then the printer will check whether the top cover is closed tightly again and start the printing if it is ok.

2) If the print head detects an error, the following dialog box will appear:

Thee printer will detect the print head during startup. If the above prompt appears, it means that the print head has bad points or abnormal connection, and the user can press any key to skip this interface and enter the main interface, and then print one section with font 8 to check whether the printing has broken lines or there is no printing content, and give a feedback to the service personnel for repairing.
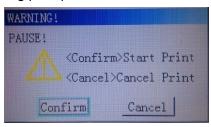
3) Uplift the top cover during printing, the following dialog box will appear:

If the top cover uplifts during the printing, the LCD screen will give above prompts, and the printer will automatically stop printing immediately. When select the "Confirm" key, the user needs to make sure the top cover is closed tightly, otherwise it
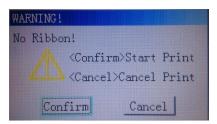
will not print, and the printer will continue the printing from the stop section if the user selects to continue the printing. When select the "Cancel" key, the remaining sections will not be printed.

4) Stop printing. If press the "stop" key during the printing, the printer will stop printing after cutting off the printed contents and display following prompts on the LCD screen.

Select "Confirm" continue the printing, and select "Cancel" to stop the printing.
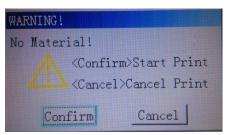
5) No ribbon. When the printer detect that the ribbon uses out, it will stop printing and display following messages on the LCD screen:

When the above message appears, check and replace the ribbon. Close the top cover tightly and select "Confirm" or "Cancel" according to the needs.
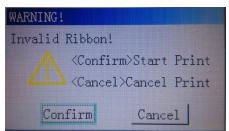
6) No material. When the printer detect that the material uses out,

it will stop printing and display following messages on the LCD screen:
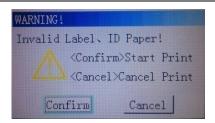
When the above message appears, check and replace the material. Close the top cover tightly and select "Confirm" or "Cancel" according to the needs.

7) Invalid ribbon. When the printer detect that the ribbon is invalid, it will stop printing and display following messages on the LCD screen:
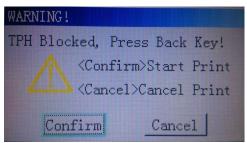
When the above message appears, check whether the ribbon is the authorized edition, and change it to authorized edition. Close the top cover tightly, and select the "Confirm" or "Cancel" key according to the needs. If you confirm it is authorized edition, please contact the service personnel.

8) Invalid label and ID strips. When the printer detect that the label or ID strip is invalid, it will stop printing and display following messages on the LCD screen:
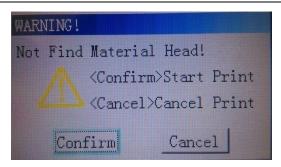
When the above message appears, check whether the label or ID strip is the authorized edition, and change it to authorized edition. Close the top cover tightly, and select the "Confirm" or "Cancel" key according to the needs. If you confirm the label or ID strip is authorized edition, please contact the service personnel.

9) The printer is blocked. When the printer detect that the motor rotates abnormally, it will stop printing and display following messages on the LCD screen:
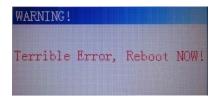
When the above message appears, check the path status, clear the jamming status and close the top cover, and then select the "Confirm" or "Cancel" key according to the needs.

10) Not find the material head. If the printer does not find the material head when it is loaded with consumables, it will stop printing and display following messages on the LCD screen:

When the above message appears, please re-load the consumables and close the top cover, and then select the "Confirm" or "Cancel" key according to the needs.

11) The print head and cutter mechanism has malfunctions. If an abnormal status appears when the print head and cutter mechanism performs actions, the printer will stop printing and display following messages on the LCD screen:

6.2 Print Quality problem

Errors	Analysis of reasons	Solution
The printout is unclear or dirty	Dirty consumables	Clean the consumables or replace the tube holder
	Dirty print head	Clean the print head
	Dirty platen roller	Clean the platen roller
	Print darkness is too low	Increase the print darkness
	Ribbon wrinkles	Install the ribbon correctly
	Beyond the operating environment requirement	Select a suitable operating environment

Table 6.2.1

Appendix

Appendix 1 Printer specification

Item		BEE200/PC parameters	BEE200 parameters
Print	Resolution	300DPI	
	Print mode	Thermal transfer	
	Print width(Max.)	8.12mm	
	Print speed(Max.)	Low speed: 18mm/s Medium speed: 25mm/s(default) High speed: 40mm/s	
	CPU	32bit RISC embedded micro processor	
	Memory	SDRAM: 8MB FLASH: 4MB Expanded FLASH: 128MB	
	Print head temperature detection	Thermal resistor	
	Print head position detection	Photoelectric sensor	
	Cutter position detection	Photoelectric sensor	
	Consumable detection	Photoelectric sensor	
	Consumable's front-end detection	Photoelectric sensor	
	Ribbon presence detection	Photoelectric sensor	
	Import from U disk	Support	

	Online connection with the computer through the USB port	Support	Not support
Media	Consumable type	Tube, label, head shrinkable tube, ID strip	
	Tube specification(suitable wire specification)	0.5, 0.75, 1.0, 1.5, 2.5, 4.0, 5.0, 6.0, 8.0	
	Heat shrinkable tube specification(diameter)	2.0, 3.0, 4.0, 5.0, 6.0, 8.0	
	Label specification(width)	6mm, 9mm, 12mm	
	ID strip	Specified ID strip	
	Ribbon color	black	
Character	Character size	Eight kinds of font size	
Operation interface	keyboard	10-inch 84-key keyboard	
	LCD	320 * 240 full color LCD	
Power adapter	Input	AC100～240V, 50/60Hz	
	Output	DC12V, 3A	
Environment requirement	Working environment	+15℃～35℃, 20%～90%(40℃)	
	Storage environment	5℃～35℃, 20%～93%(40℃)	
Physical feature	Overall size	319mm(D) ×285mm(W)×95mm(H)	
	Weight	About 2.2 Kg (without accessories and package)	

Appendix table 1.1

⚠ **Caution:**

■ Please select the appropriate ribbon according to the paper type and use purpose.

■ Please use consumables with authorized edition.

Appendix 2 Keyboard function list

[Material]:   Tube:0.5, 0.75, 1.0, 1.5, 2.5, 4.0, 5.0, 6.0, 8.0

                         Label: 2.0, 3.0, 4.0, 5.0, 6.0, 8.0

                         Heat shrinkable tube: 6mm, 9mm, 12mm

                         ID strip

[Length]:   Specified section length

                         Automatic section length

                         Full length adjustment

[Font size]:   Specified font size: 1, 2, 3, 4, 5, 6, 7, 8

                         Automatic font size

[Space]:   0~20

[Rows]:   Insert a row(line break character)

[Direction]:   Horizontal print (current section)

                         Vertical print (current section)

                         Horizontal print (full text)

                         Vertical print (full text)

[Decorations]: Cancel decorations

                         Add border

                         Add underline

[Serial number]: 0~999

                         000~999

                         A~Z

                         a~z

                         00~FF

[Repeat]:   1~200

[Darkness]:   Print darkness: 1~7

[Typesetting]:   Left alignment

                Centering

[Half cut]:   Half-cut: half-cut depth

                Division of secant

                None

[File]:   Local file storage

                Browse local files

                Clear local files

                Open U disk

[Setup]:Full cut settings

                Speed

                69 underline

                Print position settings

                Light

                Priority

                Factory default settings

                Jam detection

                Consumable detection

                System upgrading

                Sound

                About the printer

[Delete all]:   Delete all editing contents

[Stop]:   Stop the current printing

[Stop]:   Stop the current printing

[Text head]:   Move the cursor to the head of current section

[Text end]:   Move the cursor to the end of current section

[Reverse]:　　　Motor rotates inversely

[Delete section]:Delete all editing contents of the section in which the cursor locates

[Test]:　　Set the test page

[Subscript]:　　Insert the subscript at the current cursor position(subscript character)

[Superscript]:　Insert the superscript at the current cursor position (superscript character)

[Print range]:　Set the start and end sections that to be printed

[Capital/Small]: Switch between the uppercase and lowercase

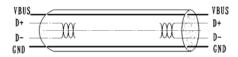[Chinese/English/Character]:　　Switch between the Chinese/English/Character input method

[Print]:　　　　Print the current setting contents

[Print copies]:Set the number of print copies and full cut mode

Appendix 3 Communication interface--USB (optional)

The USB interface is optional; it is a full speed communication interface and meets the USB2.0 protocol standard.

USB interface transmits signals and supplies power via a four-wire cable:

Appendix Fig. 3.1 USB cable

In the Appendix Fig.3.1, the D+ and D- lines are used to transmit signals, and the VBUS is +5V.