

KL-780

User's Guide



CASIO[®]

Important Safety Precautions

Note of the following safety precautions before using the label printer for the first time. Keep these safety precautions and operating instructions on hand for future reference.

About safety precaution symbols

The following symbols are used in this manual and on the product itself to alert you and others to the risk of personal and material injury.



Warning

This symbol indicates an item that can result in death or serious personal injury if ignored.



Caution

This symbol indicates an item that can result in serious personal injury or material damage if ignored.

Examples



A circle indicates something you should not do. This symbol indicates you should not try to take something apart.



A black circle indicates something you must do. This symbol indicates you should unplug something.



Warning

Power supply and voltage



- Use only a power source whose output matches the rating marked on the plate on the bottom of the label printer. Also, avoid plugging too many appliances into the same extension cord. The wrong voltage or overloading of an AC outlet creates the danger of fire and electrical shock.

Serious malfunction



- Continued use of the unit when smoke or a strange odor is coming from it creates the danger of electrical shock. Immediately turn power off. Request servicing from your original dealer.

AC adaptor



- Do not allow the power cord to become damaged or broken, and never modify, over bend, twist, or pull it. Never place heavy objects on the power cord, and never expose it to direct heat. A damaged power cord creates the danger of fire and electrical shock.



- Use only the AC adaptor specified for this unit (optional AD-A95100). Use of another AC adaptor creates the danger of fire and electrical shock.



- Should the power cord become seriously damaged (internal wiring is exposed or cut), request servicing from your original dealer. Use of a seriously damaged power cord creates the danger of fire and electrical shock.



- Never touch the AC adaptor when your hands are wet. Doing so creates the danger of electrical shock.

Never try to take the unit apart



- Never try to take the unit apart or modify it in any way. Doing so creates the danger of electrical shock, burn injury, or other personal injury.
- Never remove the outer cover of the unit. Exposure of high-voltage components inside creates the danger of electrical shock.

Packaging



- Keep the plastic bag that the unit comes in out of the reach of small children. Plastic bags create the danger of suffocation for small children.

Avoid dropping



- Should the unit ever become damaged by falling down, immediately turn off power and unplug the power cord from the wall socket. Request servicing from your original dealer. Use of a damaged unit creates the danger of fire and electrical shock.

Batteries



- Never charge batteries, try to take batteries apart, or allow batteries to become shorted. Never expose batteries to direct heat or dispose of them by incineration.

Tape Cutter



- Never touch the tape cutter while a tape cut operation is being performed. Doing so can result in cuts and other personal injury.

Microwave oven containers



- Never affix labels to containers used for heating food in a microwave oven. The label material contains metal, which creates the risk of sparking and burn injury when heated in a microwave oven. Heating in a microwave oven can also cause deformation of the container to which the label is affixed.



Caution

AC Adaptor



- Do not leave the power cord near stoves or other sources of intense heat. Doing so can melt power cord insulation and create the danger of fire and electrical shock.



- When unplugging the power cord from the wall socket, grasp the plug. Never pull on the cord itself. Doing so can damage the power cord and create the danger of fire and electrical shock.



- Whenever leaving the unit unattended for long periods, be sure to unplug it from the wall socket.



- At least once a year, unplug the AC adaptor from the electrical outlet and clean the area around the prongs of the plug. Dust build up around the prongs creates the danger of fire.



- Whenever moving the unit, be sure to unplug it from the wall socket. Leaving the unit plugged in when it is being moved can result in damage to the power cord and create the danger of fire and electrical shock.



- Whenever cleaning the unit, be sure to unplug it from the wall socket.



- When you are through using the unit, use its power switch to turn it off and then unplug it from the wall socket.

Avoid unstable areas



- Never place the unit on a wobbly table or a high shelf. Doing so can cause it to fall, resulting in personal injury.

Water and other foreign matter



- Never allow coffee, juice, or other drinks, or flower vases to spill on the unit. Liquid spilled on the unit creates the danger of fire and electrical shock. Should liquid ever spill onto the unit, immediately turn off power. Request servicing from your original dealer.



- Never allow metal objects or combustible materials to get into the air vents of the unit. Doing so creates the danger of fire and electrical shock.

Location



- Avoid leaving the unit in areas subjected to high humidity and large amounts of dust. Such conditions create the danger of fire and electrical shock.



- Avoid leaving the unit on a kitchen table, next to a humidifier, or in any other area where it might come into contact with oil vapors or steam. Such conditions create the danger of fire and electrical shock.



- Never place heavy objects on the unit. Doing so creates the danger of the unit falling, resulting in personal injury.

Batteries



- Misuse of batteries can cause them to leak acid that can cause damage to nearby items and creates the possibility of personal injury.



- Be sure that the plus (+) and minus (-) sides of each battery are facing correctly.



- Never mix batteries of different types.



- Never mix new batteries and dead batteries.



- Remove the batteries if you do not plan to use KL-780 for a long time.



- Use only the battery type specified for this label printer in this manual.

Memory



- Always keep separate written copies of any information you store in the memory of this label printer. Data stored in memory can be unexpectedly lost due to malfunction, repair, dead battery, etc.

Loading and replacing batteries



- Do not touch the springs inside the battery compartment cover with your fingers while loading or replacing batteries. The springs have sharp areas and can cut your fingers.

Introduction

Congratulations on your selection of the CASIO KL-780 Label Printer. This CASIO Label Printer makes it possible for you to print adhesive labels for a wide variety of applications, such as: name tags, cassette tape labels, floppy disks, binders, and other applications.

You can produce attractive, original labels thanks to such features as:

- Variable tape sizes (6mm, 9mm, 12mm, 18mm)
- Attractive sans-serif font
- Font effects (shading, underline, box)
- Character Styles (normal, outline, shadow, raised)
- Built-in symbols
- Text memory
- Bar code
- Mirror image printing

You can even use tapes with optionally available holders to create your own stamps.

All of this makes the CASIO Label Printer the perfect tool for just about all of your labeling needs!

Important!

- Contact a nearby dealer whenever you require servicing.
- Note that the manufacturer shall not be held liable for any loss or claims by third parties which may arise out of the use of this product.
- Note that the manufacturer shall not be held liable for any damages incurred as a result of data loss caused by malfunctions, repairs, or interruption of power supply.
- It is up to the user to keep backup records of important data.
- Keep this manual on hand for future reference.

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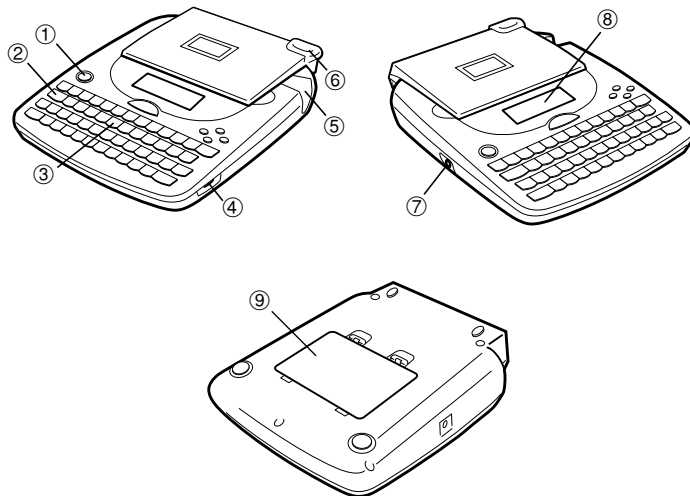
Part 1 Getting Acquainted

This part of the manual provides you with important information you need to know in order to use the Label Printer to its full potential. Be sure to read it carefully before using the Label Printer for the first time.

Important Precautions

- Keep your Label Printer out of areas subject to temperature extremes, moisture and direct sunlight. The recommended temperature range is 10° to 35°C (50° to 95°F).
- Don't let coffee, juice or other liquids splash onto the Label Printer.
- Never let paper clips, pins or other foreign objects get into the tape outlet slot or printer of the Label Printer.
- Do not pile heavy objects on top of the Label Printer.
- Never try to take the Label Printer apart or attempt your own maintenance.
- Do not drop your Label Printer and avoid strong impact.
- Do not pull on the tape or try to force it back into the Label Printer.
- Do not use benzine, thinner, or other volatile chemicals to clean the exterior of the Label Printer. Use a soft, dry cloth or a cloth dampened in a weak solution of a mild, neutral detergent and water. Wring the cloth out until all excess moisture is removed.
- A dirty printer head can cause printing to become smudged. When this happens, clean off the printer head by wiping it with a cotton swab moistened with alcohol (page E-20).
- Use of the Label Printer next to a television or radio may interfere with reception.

General Guide



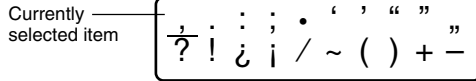
- ① **Power Key**
Turn power on and off.
- ② **Function key**
- ③ **Letter keys**
- ④ **Contrast dial**

- ⑤ **Tape outlet**
- ⑥ **Tape cutter button**
- ⑦ **Optional AC Adaptor connector**
- ⑧ **Liquid crystal display (LCD)**
- ⑨ **Battery compartment**

Label Printer Menus

Label Printer operation is designed to be as simple as possible, thanks to on-screen menus that you can use to select the settings you need. Each menu is described in detail in the sections that follow in this manual, but note the following general points when using them.

- The item that is underlined in a menu is the one that is currently selected.



- Use ⏪, ⏩, ⏴, and ⏵ to move the underlining left, right, up and down and change the selected item.
- Press **SET** to execute the underlined item, or **ESC** to exit the displayed menu (and return to the previous menu or screen) without selecting anything.
- When you press **SET** to execute a menu item, the Label Printer either moves on to the next menu, or it executes the selected function and returns to the text input screen that you started from.

Part 2 Getting Ready

This part of the manual tells you how to load batteries and the tape cartridge, and how to perform other basic setups for the Label Printer.

Important!

- Be sure to read this section before attempting to use the Label Printer.

Power Supply

The Label Printer can be powered by six AA-size alkaline batteries or an optional AC adaptor (AD-A95100).

Replacing Batteries

A handy low battery power indicator lets you know when battery power is getting too low for proper operation. The message “LOW BATTERY” appears on the display if battery power is low when you perform any of the following operations.

- Turn power on
- Execute a print operation

Whenever the “LOW BATTERY” message appears, press **SET** to clear it from the display. You should still be able to perform some Label Printer operations, but some power intensive operations (like printing) may become impossible if battery power is too low. In any case, you should replace batteries as soon as possible or switch to the AC adaptor as soon as possible after the “LOW BATTERY” message appears.

Important!

- All data stored in memory is deleted whenever batteries go dead and when you replace batteries. Be sure to keep written backup copies of all important data.
- Batteries can burst or leak and damage your unit if you do not use them correctly. Note the following important points.
- Be sure that the plus (+) and minus (–) sides of each battery are facing correctly.
- Never mix batteries of different types.
- Never leave dead batteries in the Label Printer.
- Remove the batteries if you do not plan to use the Label Printer for a long time.
- Replace the batteries in accordance with the battery life marked on the side of the battery.

Warning!

- Never use recharged batteries with the unit.
- Do not expose batteries to direct heat, do not short circuit them, and do not try to take them apart.
- **Keep batteries out of the reach of small children. If swallowed, consult with a physician immediately.**
- Be sure to replace the batteries in accordance with the battery life printed on the side of the battery itself.

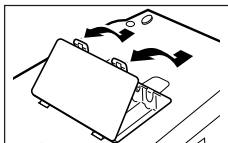
To load the batteries

Caution

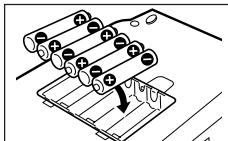
- Do not touch the springs inside the battery compartment cover with your fingers while loading or replacing batteries. The springs have sharp areas and can cut your fingers.



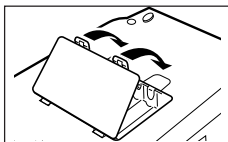
1. Turn power off.
- If you are using the optional AC adaptor for power, you should also unplug it from the Label Printer.
2. Turn over the Label Printer.
Open the battery compartment cover as shown in the illustration.



3. Load batteries into the battery compartment.
 - Be sure to use alkaline batteries.
 - Make sure the positive (+) and negative (-) ends of the batteries are facing in the correct directions.



4. Replace the battery compartment cover.



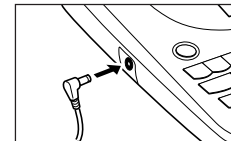
AC Adaptor

Note the following important precautions when using an AC adaptor to power your Label Printer.

- Use only a genuine CASIO AD-A95100 AC adaptor with the same voltage rating as the household current in your area. Using a wrong adaptor can damage your Label Printer.
- Be sure to turn the Label Printer off before you connect the adaptor. Do not turn power on until the adaptor is connected to the Label Printer and plugged into an AC outlet.
- Be sure to unplug the AC adaptor from the AC outlet whenever you are not using the Label Printer.

To connect the AC adaptor

Connect the adaptor to the Label Printer as shown in the illustration. Plug the other end into a standard household AC outlet.



Turning Power On and Off

Press **ON/OFF** to turn power on and off.

Important!

- If you are using the Label Printer for the first time, you should reset it first.

Resetting the Memory

You should reset the memory of the Label Printer before using it for the first time, after you have not used it for a long time, or if nothing happens when you turn power on, even after you change the batteries.

Important!

- Resetting Label Printer memory clears its memory of all input data.

To reset the memory

1. Make sure that Label Printer power is off.
2. While holding down the **PRINT** and **ESC** keys, press **ON/OFF** to turn power on.
- This prompt confirms whether or not you want to initialize the Label Printer.



3. Release the **PRINT**, **ESC**, and **ON/OFF** keys.
4. Press **SET** to initialize the Label Printer or **ESC** to abort the reset operation without initializing anything.
- See "Initializing the Label Printer" on page E-21 for information on the initial default settings of the Label Printer following the reset operation.

Auto Power Off Function

If you do not perform any key operation for about six minutes, the Label Printer automatically turns power off. To restore power, press **ON/OFF**.

Display Contrast

Rotate the dial on the side of the Label Printer to adjust display contrast.

Tape Cartridges

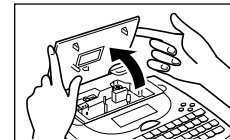
Use the procedures described below to load a tape cartridge into the Label Printer.

Important!

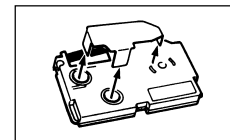
- Never try to push the tape back into the cassette. Once tape is out of the cassette, there is no way to wind it back in. Trying to do so can cause operational problems with the Label Printer.
- The following are the tape widths that can be used with this printer: 6mm, 9mm, 12mm, 18mm.

To load a tape cartridge

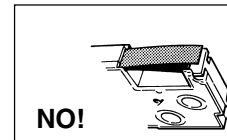
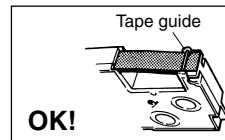
1. Make sure that the Label Printer is turned off.
2. Lift open the cover.



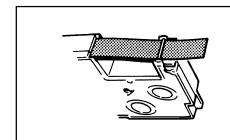
3. Remove the stopper from a new tape cartridge and check to see that the tape is ready to use.



- Make sure that the tape is under the tape guide and that it is not bent or twisted.

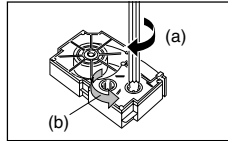
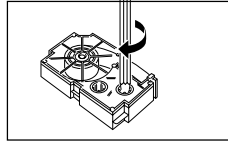


- Make sure that the tape does not extend too far past the tape guide. If it does, cut off the end with a pair of scissors.

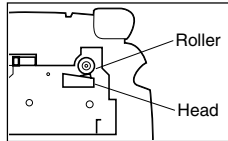
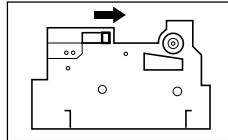


Part 3 Inputting Characters and Symbols

- Use a pencil or some other thin object to take up slack in the ink ribbon as shown in the illustration. Note that the tape does not move at this time.
 - If the ink ribbon is slack when you load it into the Label Printer, it can break or cause some other problem.
 - Be sure to turn the ink ribbon take up spool only in the direction indicated by the arrow (a).
 - Turn the spool until the other spool (b) starts turning in the direction noted by the arrow. This indicates there is no slack in the ribbon.



- Slide the printer head release in the direction indicated by the arrow.
 - If there is a cartridge already in the Label Printer, remove it by grasping the cartridge on both sides with your thumb and forefinger, and lift straight up.
- Load the tape cartridge into the Label Printer, making sure that the tape and ink ribbon pass between the head and roller.
- Return the printer head release to its original position by sliding in the direction opposite to that indicated by the arrow in the illustration in step 5.



- Close the cover.
- Turn on Label Printer power and press **FUNC** and then **PRINT (FEED)** two or three times to make sure that the tape comes out without any problem.
 - If the tape does not come out normally, turn off power and start again from step 1 above.

Storage Precautions

- Keep tape cartridges out of areas subject to high temperature, humidity, and direct sunlight. These conditions can cause discoloration of the tape.
- When storing a cartridge, re-attach its stopper, and insert the cartridge in its original plastic bag and box.

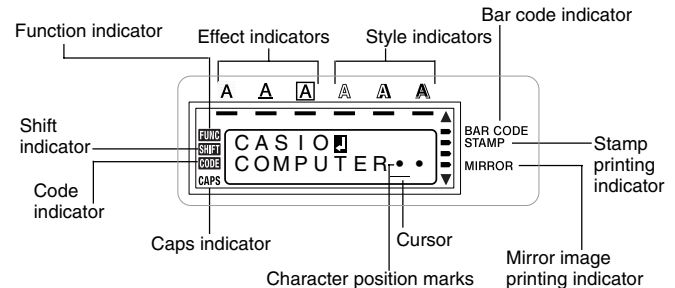
This part of the manual tells you how to input characters. To make things easier to understand, we call everything you input a character, regardless of whether it is actually a letter, number, or symbol. Explanations here all use the default settings that are in effect from the initial power-on screen. For information on using other character styles, effects and sizes, see page E-13.

Important!

- You can input up to 95 characters per label. Further input becomes impossible after you input the 95th character.

Display Symbols and Indicators

Before getting into actual input, you should first become acquainted with the symbols and indicators used on the Label Printer display.



• Function indicator

This indicator appears when you press the **FUNC** key. Pressing a key while this indicator is on the display causes the function marked above that key to be executed.

- **Shift indicator**

This indicator appears when you press the **SHIFT** key. While this indicator is on the display, the keyboard is shifted, so the letter keys input upper-case alpha characters. The number keys input the punctuation symbols marked in the upper right corners of the keys.

If both the caps mode indicator and the shift indicator are shown on the display, the keyboard is shifted to lower-case input.

The keyboard automatically unshifts (and the shift indicator disappears) as soon as you input a character.

- **Code indicator**

This indicator appears when you press the **CODE** key. While this indicator is on the display, number keys 1 through 0 input the accents marked above them and the **U, O, P, A, S, J, K, L, Z, C** and **N** keys input the special characters marked in their lower right corners.

The keyboard automatically returns to normal (and the code indicator disappears) as soon as you input an accent.

- **Caps indicator**

This indicator appears when the Label Printer is in the caps (upper-case) mode. All letters you input in the caps mode are upper-case. When the caps mode indicator is not shown on the display, all letters are input as lower-case.

Note that the Label Printer stays in the caps mode until you press the **CAPS** key again.

If both the caps mode indicator and the shift indicator are shown on the display, the keyboard is shifted to lower-case input.

- **Bar code indicator**

This indicator appears when you are performing a bar code operation.

- **Stamp printing indicator**

This indicator appears when you are performing a stamp operation.

- **Effect indicators**

These indicators point to the character effect that is currently in use. You can select between shading, underline, and box.

- **Style indicators**

These indicators point to the character style that is currently in use. You can select between normal, outline, shadow, and raised.

- **Mirror image printing indicator**

This indicator appears when the Label Printer is set up for mirror image printing. Normal (non mirror image) printing is performed when this indicator is not shown.

- **Cursor**

The cursor shows the next input position. Any character you input appears at the point where the cursor is located.

- **Character position marks**

These marks show where characters will appear as you input them. This part of the display is always blank when you turn power on.

Basic Alpha-Numeric Input

The following operation shows you the basic procedures for inputting letters and numbers. We will explain the procedure by inputting the following characters using the default initial power-on screen.

```
ABXYZ Computer Company
1234567890
```

Note

- If you hold down any key, it will repeat its operation or input at high speed until you release it.

To input alpha-numeric characters

1. Turn power on.
2. Input the first line of characters.
 - To input the upper-case letters, you can use either **SHIFT** or **CAPS**. With **SHIFT** you must shift the keyboard for each character. With **CAPS** the keyboard stays in upper-case until you press **CAPS** again.
 - Press **SPACE** to input spaces.
 - If you input a wrong character, press **BS** to delete it and input again. See page E-12 for other details on editing text.

3. When you reach the end of a line of text, press **↵** to input a newline mark.
- A newline operation is indicated on the display by the **↵** symbol. This shows where you changed lines.
 - The maximum number of lines you can input depends on the width of the tape you have loaded in the Label Printer.

Tape Width Maximum Number of Lines

- 6mm 1
- 9mm 1
- 12mm 2
- 18mm 3

4. Input the characters in the second line.
5. To print the text that you input, press **PRINT**. For details on printing, see page E-16.

About the CODE key...

The **CODE** key makes it possible to input punctuation needed for a number of different languages. The following shows the key operations you should use for each of the characters formed using the **CODE** key.

■ CAPS on

Key Operation	Input	Key Operation	Input	Key Operation	Input
CODE U	Ü	CODE Z	Ž	CODE 5	^
CODE O	Œ	CODE C	Ç	CODE 6	˘
CODE P	À	CODE N	Ñ	CODE 7	°
CODE A	Æ	CODE 1	´	CODE 8	/
CODE J	Ö	CODE 2	¨	CODE 9	”
CODE K	Ä	CODE 3	¨	CODE 0	¸
CODE L	Ø	CODE 4	˘		

■ CAPS off

Key Operation	Input	Key Operation	Input	Key Operation	Input
CODE U	ü	CODE L	ø	CODE 4	˘
CODE O	œ	CODE Z	ž	CODE 5	˘
CODE P	à	CODE C	ç	CODE 6	˘
CODE A	æ	CODE N	ñ	CODE 7	°
CODE S	ß	CODE 1	´	CODE 8	/
CODE J	ö	CODE 2	¨	CODE 9	”
CODE K	ä	CODE 3	¨	CODE 0	¸

Example: To input á.

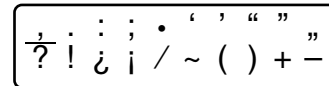
1. Press **CODE**.
2. Press **1**.
3. Press **A**.

Special Symbols

You can also access a menu of special symbols by pressing **SYMBOL**.

To input special symbols

1. With the cursor at the location where you want to input a special symbol, press **FUNC** and then **7** (SYMBOL).
 - The symbol that is underlined on the display is the one that is currently selected.



2. Use the **⊖**, **⊕**, **⊗** and **⊘** cursor keys to move the underlining to the symbol you want.
 - Not all of the available symbols fit on the display. The menu will scroll when you press the cursor keys.
3. After you underline the symbol you want, press **SET**.
 - This returns to the input screen, with the symbol you selected input at the location where the cursor was located when you displayed the symbol list.

Part 4 Deleting and Inserting Characters

This section describes everything you need to know about deleting and editing characters you have already input.

Moving the Cursor

Use the cursor keys to move the cursor around the display and position it for deleting and editing characters.

To move the cursor

- Press ⬅ and ➡ to move the cursor to the left, and ➡ to move the cursor to the right.
- Press **FUNC** and then ⬅ to make the cursor jump to the beginning (far left) of the characters on the display.
- Press **FUNC** and then ➡ to make the cursor jump to the end (far right) of the characters on the display.
- Holding down the ⬅ or ➡ cursor key moves the cursor at high speed.

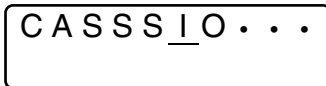
Deleting Individual Characters

You can delete individual characters with either the **BS** key or the **DEL** key. The only difference between the operation of these two keys is the location of the cursor.

To delete characters using the BS key

Example: To change the word "CASSSIO" to "CASIO".

1. Use ⬅ and ➡ to move the cursor under "I".



C A S S S I O . . .

2. Press **BS** twice to delete the two S's to the left of the cursor, shifting "IO" to the left as you do.
3. Press **FUNC** and then ➡ to jump back to the end of the characters for more input.

To delete characters using the DEL key

Example: To change the word "commmputer" to "computer".

1. Use ⬅ and ➡ to move the cursor under the first (far left) "m".
2. Press **DEL** twice to delete the two m's at the cursor's position, shifting "mputer" to the left as you do.
3. Press **FUNC** and then ➡ to jump back to the end of the characters for more input.

Clearing the Display

Use the following procedure to clear all input text from the display.

To clear the display

Press **FUNC** and then **DEL** (CLS).

At this time the message "CLS OK? SET/ESC" appears on the display to confirm that you want to clear the display. Press **SET** to clear or **ESC** to abort the operation without clearing anything.

Text Editing

You can use the following procedures to edit text on the display.

To insert new characters

Example: To change the text "ABCDEF" to "ABCXYZDEF".

1. With the original text on the display, move the cursor under the letter "D".
2. Input the new characters (XYZ).
 - Inputting the new characters causes them to be inserted at the cursor position. The existing characters are opened up to make room for the new characters.

To change existing characters to different ones

Example: To change the text "ABCDEF" to "XYZDEF".

1. With the original text on the display, use either the **BS** key or **DEL** key to delete the characters to be changed (ABC).
2. Input the new characters (XYZ).

Part 5 Character Size, Text Effects and Character Styles

This part of the manual explains how to set the size of characters. It also tells you how to assign text effects like underlining, shading, and box printing, and how to select character styles like normal, outline, shadow, and raised.

Character Size

There are two methods you can use to set the character size: AUTO and MANUAL. With AUTO, character size is set automatically in accordance with the tape size you are using and the number of lines you are printing. MANUAL lets you set the character size manually.

The following table shows how AUTO decides which character size to use.

Number of lines/tape size

tape size number of lines	6mm	9mm	12mm	18mm
1 line	1 × 1	2 × 2	3 × 3	3 × 3
2 lines	—	—	1 × 1	1 × 1
3 lines	—	—	—	1 × 1

The following table shows the 24 characters sizes that are available with MANUAL size setting.

Character Size Indicator	Actual Size (Vertical × Horizontal)
1 × 1	3mm × 3mm
1 × 2	3mm × 6mm
1 × 3	3mm × 9mm
1 × 4	3mm × 12mm
1 × 5	3mm × 15mm
1 × 6	3mm × 18mm

Character Size Indicator	Actual Size (Vertical × Horizontal mm)
2 × 1	6mm × 3mm
2 × 2	6mm × 6mm
2 × 3	6mm × 9mm
2 × 4	6mm × 12mm
2 × 5	6mm × 15mm
2 × 6	6mm × 18mm
3 × 1	9mm × 3mm
3 × 2	9mm × 6mm
3 × 3	9mm × 9mm
3 × 4	9mm × 12mm
3 × 5	9mm × 15mm
3 × 6	9mm × 18mm
4 × 1	12mm × 3mm
4 × 2	12mm × 6mm
4 × 3	12mm × 9mm
4 × 4	12mm × 12mm
4 × 5	12mm × 15mm
4 × 6	12mm × 18mm

Character size changes are applied to printed text only. The size of the displayed text does not change.

Important!

- Any character size specification you make is applied to all the characters on the display. You cannot make multiple specifications for specific characters.
- The maximum character size you can print depends on the size of the tape you have loaded in the Label Printer and the number of lines of text you are printing. If the character size you specify is greater than the maximum characters size limit, the Label Printer automatically adjust your text vertically to fit as shown in the tables below. The indicator “E” is shown on the right of the size to indicate when the character size has been adjusted.

6mm (1 line)

		Horizontal					
		1	2	3	4	5	6
Vertical	1	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	2	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	3	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	4	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6

9mm (1 line)

		Horizontal					
		1	2	3	4	5	6
Vertical	1	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	2	2 × 1	2 × 2	2 × 3	2 × 4	2 × 5	2 × 6
	3	2 × 1	2 × 2	2 × 3	2 × 4	2 × 5	2 × 6
	4	2 × 1	2 × 2	2 × 3	2 × 4	2 × 5	2 × 6

12mm (1 line)

		Horizontal					
		1	2	3	4	5	6
Vertical	1	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	2	2 × 1	2 × 2	2 × 3	2 × 4	2 × 5	2 × 6
	3	3 × 1	3 × 2	3 × 3	3 × 4	3 × 5	3 × 6
	4	3 × 1	3 × 2	3 × 3	3 × 4	3 × 5	3 × 6

12mm (2 lines)

		Horizontal					
		1	2	3	4	5	6
Vertical	1	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	2	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	3	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	4	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6

18mm (1 line)

		Horizontal					
		1	2	3	4	5	6
Vertical	1	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	2	2 × 1	2 × 2	2 × 3	2 × 4	2 × 5	2 × 6
	3	3 × 1	3 × 2	3 × 3	3 × 4	3 × 5	3 × 6
	4*	4 × 1	4 × 2	4 × 3	4 × 4	4 × 5	4 × 6

* At this size, certain text effects can cause closely spaced lines of text to overlap.

* When this size is being used, you cannot change the character style (page E-16).

18mm (2 lines, 3 lines)

		Horizontal					
		1	2	3	4	5	6
Vertical	1	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	2	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	3	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6
	4	1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6

Important!

- Whenever a horizontal size of 1 is being used, the lines of certain character styles can become broken.

Using Auto Sizing (AUTO)

1. Input the text.
2. Press **FUNC 4** (SIZE) to display the size setting menu.



3. Make sure the pointer is aligned with AUTO and then press **SET**.

Now the character size is automatically set.

To specify character sizes (MANUAL)

1. Input the text.
2. Press **FUNC 4** (SIZE) to display the size setting menu.
3. Use \odot to move the pointer to MANUAL and then press **SET**.



4. Specify the character size you want.
 - Use \odot and \ominus to move the underlining between the two dimensions.
 - To change a dimension, press \odot to increase it or \ominus to decrease it.
 - Remember that the dimensions you can specify depend on the width of the tape loaded in the label printer (see table, above).
5. When the character size you want to specify is on the display, press **SET** to select it and return to the text display.

Note

- You could also perform the above procedure in reverse, specifying the character size first and then inputting the text.

Text Effects

There are three text effects that you can assign: shading, underlining, and boxed text. The following shows examples of each.

Shading:

ABC.XYZ

Underlining:

ABC.XYZ

Boxed Text:

ABC.XYZ

Text effect changes are applied to printed text only. The appearance of the displayed text does not change, but the text effect indicators will show you when a text effect is being used.

Important!

- Any text effect specification you make is applied to all the characters on the display. You cannot make multiple specifications for specific characters.
- You can use the Shading, Underline, and Box effects in combination with each other, and even specify all three at the same time.

To specify a text effect

1. Input the text.
2. Press **FUNC 5** (EFFECT) to display a menu of text effects.



3. Use \odot and \ominus to move the pointer to the effect you want to use.
4. When the pointer is located at the effect you want to specify, press **SET** to select it and return to the text display.

Note

- You could also perform the above procedure in reverse, specifying the text effect first and then inputting the text.

Character Styles

There are four character styles that you can assign; normal, outline, shadow, and raised. The following shows examples of each.

Style	Indicator	Sample
Normal	None	ABC.XYZ
Outline	A	ABC.XYZ
Shadow	A	ABC.XYZ
Raised	A	ABC.XYZ

Character style changes are applied to printed text only. The appearance of the displayed text does not change, but the character style indicators will show you when a character style is being used.

Important!

- Any character style specification you make is applied to all the characters on the display. You cannot make multiple specifications for specific characters.
- Only one character style can be in effect at a time. You cannot combine character styles.

To specify a character style

1. Input the text.
2. Press **FUNC 6 (STYLE)** to display a menu of character styles.



3. Use **⏪** and **⏩** to move the pointer to the style you want to use.
4. When the pointer is located at the style you want to specify, press **SET** to select it and return to the text display.

Note

- You could also perform the above procedure in reverse, specifying the character style first and then inputting the text.

Part 6 Printing

This part of the manual includes all the information you need to print tapes. It also tells you how to print special stamp tapes that you can attach to an optional stamp holder to create your own original stamps.

Printing Precautions

- Never turn power off while printing is being performed.
- Make sure that the tape outlet is not blocked before you start printing.
- Never operate the tape cutter while printer is being performed (indicated by the message "NOW PRINTING" on the display).

Important!

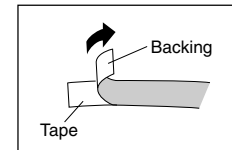
- Never touch the tape cutter while a tape cut operation is being performed. Doing so can result in cuts and other personal injury.

Printing a Tape

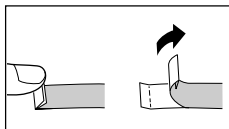
Printing a tape is as easy as pressing the **PRINT** key.

To print a tape

1. Press the **PRINT** key to print a tape of the text you have input and laid out.
 - To stop a print operation that is in progress, press **ESC**.
2. After the print operation is complete, press down on the tape cutter button to cut the tape.
3. Use scissors to trim the tape to the size you want, if necessary.
 - After you print a tape, you can peel off its paper backing and stick the tape onto the object you want. Note that the tape will not stick on coarse, wet, oily, or soiled surfaces. Also, you should not try to use the tape where it is exposed to direct sunlight or rain. Do not stick the tape onto human skin.



- An easy way to remove the backing from a tape and expose the adhesive surface is to bend the tape near one of its ends. This should cause the tape and its backing to separate, allowing you to pull them apart.



Mirror Image Printing

When you specify mirror image for text, it is printed in reverse image. Use mirror image when you plan to print on transparent tape, with the printing on the inside. When viewed through the transparent tape, the text will appear normal. You can also use mirror image printing when using iron-on transfer tape to print iron-on transfers.

Normal

ABC.XYZ

Mirror Image

ZYX.CBA

To turn mirror image printing on and off

1. Press **FUNC** and then **8** (MIRROR).



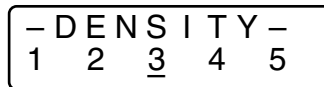
2. Press \odot or \ominus to change the setting shown on the display between MIRROR and NORMAL.
3. When the mirror image printing setting is the way you want it, press **SET** to register it.
 - A mark appears next to the MIRROR indicator on the display when mirror printing is turned on.
 - After you turn printing on, input text and perform the print operation as you normally do to produce mirror image tapes.

Print Density

The print density setting controls how darkly figures are printed on your tapes.

To adjust the print density

1. Press **FUNC** and then **9** (DENSITY).



2. Use \odot and \ominus to move the underlining to the density setting that you want.
 - The lightest setting is 1, while the darkest setting is 5. The standard setting is 3.
3. When the density setting is the way you want it, press **SET** to register it.

Part 7 Bar Code

Bar Code

With this item, you can print two different types of bar codes: EAN-13, EAN-8.

Important!

- The procedure you use to print a bar code depends on the type of bar code you select.

Bar Code Tape

Only the following types of tape should be used for printing bar codes.

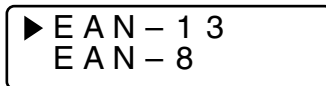
- Black on white tape (WE)
- Blue on white tape (WEB)
- Black on yellow tape (YW)

Important!

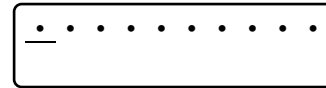
- You cannot use 6mm or 9mm tapes to print bar codes.
- With bar codes, you can only input numeric characters (0 to 9). EAN-8 allows input of seven digits, while EAN-13 allows input of 12 digits.
- Always test bar codes produced using this label printer before actually using them. If bar codes cannot be read properly, try adjusting the print density or using a larger character size.
- Do not use consecutive printing for bar codes. Consecutive printing can result in bar codes that cannot be read by a bar code reader.

To print a bar code

1. Press **FUNC 1** (BAR CODE).



2. Use \odot and \ominus to move the pointer to the type of bar code you want to print and then press **SET**.



(ex. EAN-13)

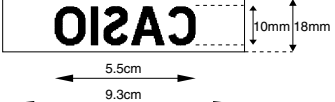
3. Input 12 number of digits when you are using EAN-13 (7 digits, when using EAN-8), and then press **SET**.
4. Use \odot and \ominus to move the underlining to the size you want to use and then press **SET**.
S: SMALL
M: MEDIUM
L: LARGE



- * This number indicates the check digit. The check digit is automatically calculated in accordance with input data. For information on Bar Code Specifications, see page E-21.
5. A prompt appears to confirm whether or not you want to perform printing. Press **SET** to execute it, or **ESC** to abort the operation.
 - An error message "TAPE ERROR USE 12, 18mm" appears when you press **SET** while loading a 6mm/9mm tape. If this happens, reload a 12mm/18mm tape and try again. (See page E-8 for details on loading tape cartridges.)

Part 8 Stamp Printing

The stamp printing feature lets you print on special stamp tape. You can then attach the finished stamp tape to an optionally available stamp holder to create your own original pre-inked stamps. The following is the type of stamp holder currently available for use with stamp tapes.

Type	Maximum Stamp Size	Example
ST-15	5.5cm	

Note the following important points about stamp printing.

- Stamp printing prints text in mirror image.
- You can perform stamp printing only when 18mm is specified as the tape width.
- An error message “LENGTH ERROR!” appears on the display and the Label Printer refuses to print whenever you try to print text that is longer than the maximum length you specify.

To print a stamp tape

1. Input the text you want to print.
2. Press **FUNC** and then **2** (STAMP).

PRINT?
SET / ESC

3. Press **SET** to print the stamp tape or **ESC** to abort the print operation and return to the text input display in step 1.
- After the printing is complete, the Label Printer returns to the input display in step 1.
4. Cut off the tape and affix it to the optional stamp holder.
- See the instructions that come with the optional stamp holder for information about how to attach the stamp tape.

Part 9 Memory

This part of the manual tells you how to store text data in memory for instant recall when you need it. You can store one block of text in memory, containing up of 95 characters.

Important!

- All data stored in memory is deleted whenever batteries go dead and when you replace batteries. Be sure to keep written backup copies of all important data.
- When using the optional AC adaptor, never disconnect the adaptor while batteries are not loaded in the Label Printer or when batteries are dead. Doing so causes all data stored in memory to be deleted.

To store data

1. Input the text you want to store.
2. Press **FUNC 3** (MEMO).
3. Press \odot and \ominus to select **STORE**.

▶ STORE
RECALL

4. Press **SET** to store the text in memory or **ESC** to abort the store procedure without storing anything.

COMPLETE

- If there is nothing in memory yet, pressing **SET** stores your text.
- If there is already text stored in memory, the message “OVERWRITE? SET/ESC” appears when you press **SET**. Press **SET** again to replace the existing text with the new text, or **ESC** to cancel the store operation.

To recall text from memory

1. While the input screen is on the display, press **FUNC 3** (MEMO).
 - Note that text recalled from memory will replace any text currently on the display.
2. Press \odot and \triangle to select **RECALL**.



3. Press **SET**.
 - If all of the text does not fit on the display, you can use \odot , \ominus , \triangle and ∇ to scroll it to the left, right, up and down.
4. Press **SET** to recall the text from memory.
 - Note that recalling data from memory replaces anything that is currently on the input display. Memory text cannot be appended.

Part 10 Reference

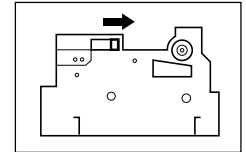
This section contains information about the Label Printer that you can use as reference when you need it.

Cleaning the Printer Head and Roller

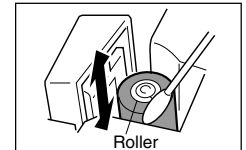
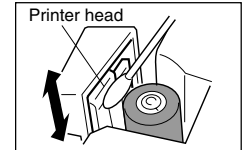
A dirty printer head and roller can result in poor printing quality. If you have problems with print quality, use the following procedure to clean the printer head and roller.

To clean the printer head and roller

1. Make sure the Label Printer is turned off.
2. Lift open the cover.
3. Slide the printer head release in the direction indicated by the arrow, and remove the tape cartridge.



4. Use a cotton swab dipped in alcohol to clean the printer head and roller as shown in the illustration.



5. Replace the tape cartridge and close the cover.

Initial Power On Settings

The following are the initial settings of the Label Printer whenever you turn it power on.

Item		Power On
SIZE	AUTO SIZE	6mm tape...1 × 1
		9mm tape...2 × 2
		12mm, 18mm tapes...3 × 3
EFFECT		CANCEL
STYLE		NORMAL
MIRROR		NORMAL

Initializing the Label Printer

If you experience serious malfunction of the Label Printer or if operation fails completely, try performing the following operation to initialize the printer.

Important!

- Initializing the Label Printer deletes all memory contents. Make sure you have a back-up copy of text stored in memory if you need it.

To initialize the Label Printer

1. Turn power off.
2. While holding down the **PRINT** and **ESC** keys, press **ON/OFF** to turn power on.
 - This prompt confirms whether or not you want to initialize the Label Printer.

INITIAL?
SET / ESC

3. Release the **PRINT**, **ESC**, and **ON/OFF** keys.
4. Press **SET** to initialize the Label Printer or **ESC** to abort the reset operation.

- The following table shows the initial settings.

Item	Reset
Display	Cleared
Memory	Cleared
SYMBOL	,
SIZE	AUTO
EFFECT	CANCEL
STYLE	NORMAL
MIRROR	NORMAL
MEMO	STORE
DENSITY	3

Bar Code initial setting

Item	Reset
Menu	EAN-13
Text	Cleared
Size	M (MEDIUM)

Bar Code Specifications

Bar code Type	Check Digit *1	Print Digit *2	Input Digits *3	Automatically Assigned Number of Digits (Check Digit *1)	Input Characters
EAN-13	Yes	13	12	1	Numerals (0 ~ 9)
EAN-8	Yes	8	7	1	Numerals (0 ~ 9)

*1 The check digit is automatically calculated in accordance with input data. For EAN-13 and EAN-8, the check digit is appended at the end of the printed digits.

*2 The number of digits printed below a bar code equals the input characters plus automatically appended characters.

*3 An error message is displayed whenever there are insufficient digits. The unit will not allow input of too many digits.

Troubleshooting

• Power Supply

Nothing appears on the display.		
Possible Causes	Action	Page
Low batteries	Replace batteries.	E-6
Improper display contrast setting	Adjust display contrast.	E-8
Batteries loaded incorrectly	Remove batteries and reload them correctly.	E-7
AC adaptor is not connected correctly.	Make sure the AC adaptor is connected correctly.	E-7

• Text Input

Cannot input text.		
Possible Causes	Action	Page
FUNC key has been pressed.	Press ESC to clear FUNC key operation.	E-9

• Printing

Tape does not come out when PRINT is pressed.		
Possible Causes	Action	Page
Tape cartridge compartment cover is not closed completely.	Securely close the cover.	E-8
No more tape left in the cartridge.	Replace the tape cartridge with a new one.	E-8
Tape jam	Remove the tape cartridge and pull out the jammed tape by hand. Cut off excess tape with scissors, and carefully replace the cartridge into the label printer. Important! Never allow the tape outlet to become blocked and never touch tape as it is being fed during printing.	E-8
Tape comes out when PRINT is pressed, but nothing is printed on it.		
Possible Causes	Action	Page
Only blank spaces were input.	Input the text you want to print.	E-9
Printing is blurred, blotched, broken, etc.		
Possible Causes	Action	Page
Improper print density setting	Adjust the print density setting.	E-17
Improper loading of the cartridge	Remove the tape cartridge and reload it correctly.	E-8
Dirty printer head or rubber roller	Clean the printer head and roller.	E-20

Ink ribbon is being fed from the tape outlet along with the tape.		
Possible Causes	Action	Page
Tape cartridge loaded while the ink ribbon is slack.	Remove the tape cartridge and check to make sure the ink ribbon is not broken. Next, take up any slack in the ink ribbon and then reload the tape cartridge. Important! <ul style="list-style-type: none"> • Before loading a tape cartridge into the label printer, always make sure you take up any slack in the ink ribbon first. • If the ink ribbon is broken, you must change to another tape cartridge. 	E-8


• Tape Cutting

Cannot cut tape.		
Possible Causes	Action	Page
Tape cutter blade is dull.	Take the label printer to the dealer from whom you purchased it to have the tape cutter blade replaced.	—
Printed text is cut off by tape cut operation.		
Possible Causes	Action	Page
Out of tape	Replace the tape cartridge with a new one.	E-8

• Using Labels

Label will not adhere to a surface.		
Possible Causes	Action	Page
The backing paper is still on the back of the tape.	Peel the backing paper from the back of the tape to expose the adhesive.	E-16
Surface is unsuitable for affixing a tape.	Labels do not adhere well to surfaces that are rough, wet, oily, or dirty.	E-16

Error Messages/Display Messages

Message	Possible Causes	Action
 ERROR! *This message appears on the screen for about one second.	<ul style="list-style-type: none"> • The number carriage returns you input causes the label to exceed the maximum number of lines for the tape you are using. • You are attempting to print a stamp while three lines of text are input. 	<ul style="list-style-type: none"> • Use wider tape or reduce the number of lines. 6mm tape...1 line 9mm tape...1 line 12mm tape...Up to 2 lines 18mm tape...Up to 3 lines • Reduce the number of lines of text to two.
NO DATA! *This message appears on the screen for about one second.	<ul style="list-style-type: none"> • You are attempting to recall text from memory when there is none stored. 	
OVERWRITE? SET/ESC	<ul style="list-style-type: none"> • You are attempting to store text in memory when it already contains text. 	<ul style="list-style-type: none"> • Press SET to overwrite the existing text with the new text, or ESC to cancel the store operation.

Message	Possible Causes	Action
TAPE ERROR	<ul style="list-style-type: none"> You are attempting to perform printing without setting a tape cartridge. You are attempting to print a stamp using a tape size other than 18mm. You are attempting to perform a bar code operation using a 6mm or 9mm tape. 	<p>Press any key besides ON/OFF to clear the error message.</p> <ul style="list-style-type: none"> Turn the power OFF and set the tape cartridge. Use only 18mm tape to print a stamp. Use only 12 or 18mm tapes to perform bar code operation.
LENGTH ERROR! * This message appears on the screen for about one second.	<ul style="list-style-type: none"> You are attempting to print a stamp with text that is longer than 5.5cm. 	<ul style="list-style-type: none"> Shorten the text you are printing and try again.
LOW BATTERY	<ul style="list-style-type: none"> Battery power is low. 	<ul style="list-style-type: none"> Replace the batteries.
DATA ERROR!	<ul style="list-style-type: none"> Data in memory has become corrupted for some reason. 	<ul style="list-style-type: none"> Press any key besides ON/OFF to clear the error message. In response to the "INITIAL?" message that appears, press SET to initialize the Label Printer.
DIGIT ERROR! * This message appears on the screen for about one second.	Input of the wrong number of digits for a bar code operation.	<p>Input the correct number of digits for the type of bar code you are creating.</p> <ul style="list-style-type: none"> EAN-8 ... 7 digits EAN-13 ... 12 digits

Message	Possible Causes	Action
INPUT TEXT! * This message appears on the screen for about one second.	<ul style="list-style-type: none"> Attempt to store text data, when no text are input. You are attempting to print a stamp without inputting text. 	<ul style="list-style-type: none"> Input the text you want to store and try again. Input the text you want to print and try again.

Alpha Characters

ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz
ŹźÇçŒœÆæßÉéÝý
ÚúÍíÓóÁáŚśŻżĆć
ŃńÈèÙùÌìÒòÀàĚě
ÜüĪīÖöÄäÕõÃãÑñ
ÊêÛûÎîÔôÂâĚěŘř
Ťť'ĂăŠšĎď'ŽžČčŇň
ŮůĂăØøŁłÚúÓó
ĘęĄą

Symbols

,...;•‘’“”„?!¿¡/~
()+ - ± × ÷ = < > \$ ¢ € £
¥ # & * @ § ° F ° C % ^{ab}
→ ← ↑ ↓

Specifications

Model: KL-780

Input

Keyboard Layout: Typewriter (QWERTY)

Character Types

Alpha (English and other languages): 151

Numbers: 10

Symbols: 46

Display

Type: Liquid crystal display

Character matrix: 10 columns \times 2 lines of 5 \times 7-dot

Printing

Type: Thermal transfer

Speed: Approximately 6.58mm/second

Width: 4mm (6mm tape), 7mm (9mm tape), 10mm (12mm tape), 12mm (18mm tape)

Character Matrix: 48 \times 48-dot

Character font: Sans-serif

Character effects: Shade, underline, box

Character Styles: Normal, Outline, Shadow, Raised

Character sizes: 1 \times 1, 1 \times 2, 1 \times 3, 1 \times 4, 1 \times 5, 1 \times 6, 2 \times 1, 2 \times 2, 2 \times 3, 2 \times 4, 2 \times 5, 2 \times 6, 3 \times 1, 3 \times 2, 3 \times 3, 3 \times 4, 3 \times 5, 3 \times 6, 4 \times 1, 4 \times 2, 4 \times 3, 4 \times 4, 4 \times 5, 4 \times 6

Number of lines: 1 (6mm and 9mm tapes); 1 or 2 (12mm tape); 1 or 2 or 3 (18mm tape)

Memory

Text: Up to 95 characters

General

Power supply: Six AA-size alkaline batteries or optional AD-A95100 AC adaptor

Battery life: Approximately 4 tape cartridges (continuous printing)

Power consumption: 9W

Auto Power Off: Approximately six minutes after last key operation.

Dimensions: 51.5 (H) \times 180 (W) \times 217 (D)mm

Weight: Approximately 470g

Ambient Temperature: 10°C~35°C (50°F~95°F)

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MO0306-B

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