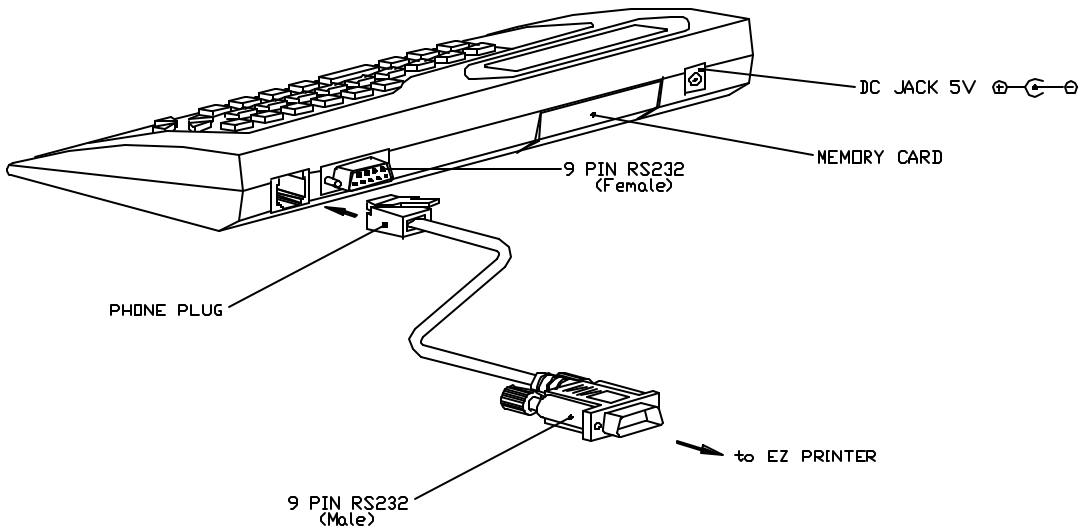


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1. DIAGRAM FOR SET UP



2. INTRODUCTION

The KP-200 Stand-alone keyboard control Terminal supports four types of operation.

a. EDIT MODE OPERATION.

The operator can design or edit label formats by themselves. The label formats can be stored in an interchangeable memory module. A maximum of eight formats may be stored in each interchangeable memory module.

b. PRINT MODE OPERATION.

Print the restored label format on the EZ-2 or EZ-4 Thermal Printer.

c. ERASE MODE OPERATION.

Delete an individual label format.

d. ERASE ALL MODE OPERATION.

Erase entire contents of interchangeable memory module.

3. POWER ON SEQUENCE

Connect the KP-200 keyboard to the EZ-2 or EZ-4 9 pin RS232 port with the interface cable provided.

Power on the printer display show Product name and Version number. The LCD display will show:

GODEX KP-200 VER 1.0

After approximately 2 seconds the LCD will change to display the four types of operation. The LCD display will show:

[1] EDIT MODE
[2] PRINT MODE ?

There are four operation modes (as described in the introduction) that may be selected. The keyboard operator can select the desired mode of operation by highlighting it with the cursor keys and then pressing **ENTER** or

- Press **1** to select **EDIT MODE**.
- Press **2** to select **PRINT MODE**.
- Press **3** to select **ERASE FORM**.
- Press **4** to select **ERASE ALL**.

4. EDIT MODE OPERATION

Edit mode operation allows the keyboard operator to design new label format or edit current ones.

Pressing **1** or **ENTER** when Edit mode is highlighted will begin the Edit mode sequence.

(A) RESTORE FORMAT FROM MEMORY MODULE.

If a label format has previously been saved in the memory module, the LCD display will show:

RESTORE FORM(Y/N)

Enter **N** and the keyboard will automatically step to (B).
Enter **Y** and the LCD display will show:

**ENTER FORM NAME:
LAB1**

Let us assume that **LAB1** is the name of the first label format. You may use the cursor keys to highlight previously formats of you may type in the format name if known. Press **ENTER** and the keyboard will load the requested format from the memory module. The LCD display will show:

**WAIT FOR LOADING
>>.....<<**

(B) SELECT PRINTER TYPE.

The LCD display will show:

SELECT PRINTER TYPE.

2" PRINTER 4" PRINTER

You may use the cursor keys to highlight the desired printer type or you may key in **2** to select the EZ-2 or **4** to select the EZ-4. Press **ENTER** to accept your selection.

(C) SELECT PAPER TYPE.

The LCD display will show:

SELECT PAPER TYPE:
Label , Blkmrk , Fax

Label - Self adhesive label with gap mounted on backing sheet.

Blkmrk - Registration mark on underside of media.

Fax - Continuous media with no registration mark.

You may use the cursor keys to highlight the desired media type or by typing in the first letter of the required media (L. B. or F.). Press **ENTER** to accept your selection.

(D) ENTER LABEL HEIGHT.

LCD display will show:

ENTER LABEL WIDTH

Enter label width in mm. Press **ENTER** to accept your selection. If you selected Fax in the previous menu, the keyboard will automatically step to (H), otherwise proceed to next menu (E).

(E) ENTER LABEL HEIGHT.

LCD display will show:

ENTER LABEL HEIGHT

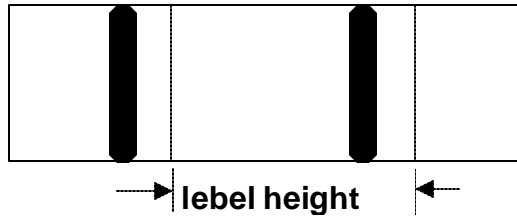
Enter label height in mm. Press **ENTER** to accept your selection. If you selected label at step (C), the keyboard will automatically step to (I), otherwise proceed with next menu.

Note: Label height includes label length + gap.

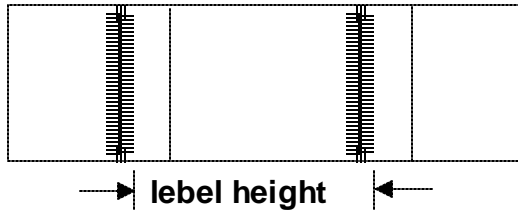
Example: Label length is 25mm, Gap width is 3mm, then the **LABEL HEIGHT** will be 28mm

Label height in black mark label is defined as follows:

(a) The distance between tear line to next tear line.



(b) The distance Between Black mark (including itself).



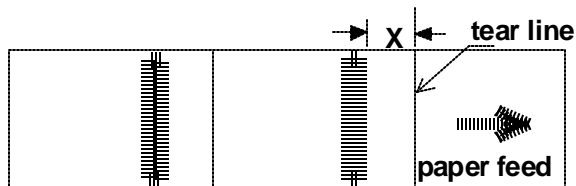
(F) ENTER TOP LENGTH

LCD display will show:

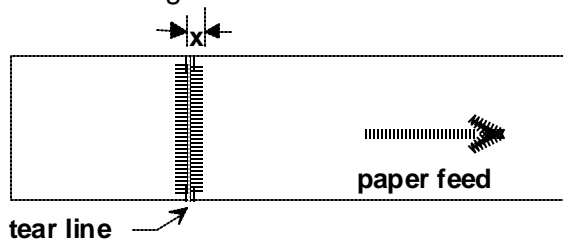


The **TOP LENGTH** is defined as follows: **X** will be the distance from the edge of the black registration mark to the next tear line along the paper feed axis.

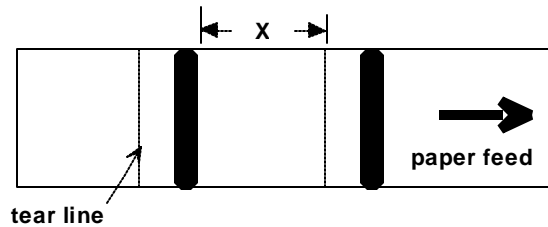
(1) If **X** is less than 46mm, and the tear line is outside the black registration mark then top length is **X**.



(2) If Tear line is inside Black registration mark then **TOP LENGTH = -X**.

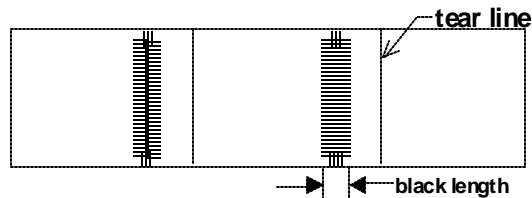


(3) If **X** is greater than 46mm, and the Tear line is outside the Black registration mark then **TOP LENGTH= Label height - X**.



(G) ENTER BLACK LENGTH

The diagram of BLACK LENGTH is defined as follow:



The BLACK LENGTH in millimeters, then press "ENTER" key, KP-200 will go to step(I).

(H) ENTER FEED LENGTH FOR FAX PAPER.

LCD display will show:

FEED LENGTH(1~25mm)

Enter Feed Length in mm and press **ENTER** to accept your selection.

(I) ENTER PRINT SPEED

LCD display will show:

SPEED 1 TO 2
2

Enter desired Print speed.

1 is equal to 1" per second.

2 is equal to 2" per second.

Press **ENTER** to accept your selection.

NOTE: 2" per second is the default value.

(J) ENTER THERMAL HEAD

TEMPERATURE (DARKNESS)

LCD display will show:

DARKNESS 0 TO 7
5

Enter 0 to 7 (light to Dark), and press **ENTER** to accept your selection.

NOTE: Default value is 5.

(K) SELECT SELF STRIP FUNCTION.

LCD display will show:

SELF – STRIP (Y/N)?
N

If your printer has the stripper option, you can enter **Y** to enable the stripper sensor. Press **ENTER** to accept your selection.

NOTE: Default value is N.

(L) FIELD PROGRAMMING.

LCD display will show:

FIELD 1:

The maximum number of fields available on one label format is eighteen. If the label format has been restored from the memory module, you may use the cursor keys to select the field you wish to edit and then press **ENTER**. If this is to be a new label format just press **ENTER**.

(M) ENTER DATA TYPE.

LCD display will show:

SELECT TEXT/BARCODE
[Shift]+[NUMERICAL]

Hold down the **Shift** key and press the **0** key to select the **TEXT** field.

Hold down the **Shift** key and press the **1** key to select the **CODE 39** barcode field.

Hold down the **Shift** key and press the **2** key to select the **CODE 93** barcode field.

Hold down the **Shift** key and press the **3** key to select the **CODE 128** barcode field.

Hold down the **Shift** key and press the **4** key to select the **CODABAR** barcode field.

Hold down the **Shift** key and press the **5** key to select the **INTERLEAVED 2 OF 5** barcode field.

Hold down the **Shift** key and press the **6** key to select the **POSTNET** barcode field.

Hold down the **Shift** key and press the **7** key to select the **AN8** barcode field.

Hold down the **Shift** key and press the **8** key to select the **EAN13** barcode field.

Hold down the **Shift** key and press the **9** key to select the **UPC** barcode field.

(N) ENTER BLANK LINE.

The LCD display will show:

LINE SPACE? (0~99 mm)

Line space is defined as the distance from this field to the next in mm. Enter desired dimension (0~99mm) and press **ENTER** to accept your selection.

NOTE: Default value is 0.

(O) VARIABLE FIELD?

The LCD display will show:

VARIABLE (Y/N)? Y

For variable data press **Y**. For fixed data press **N**.

NOTE: Default value is **Y**.

(P) FONT SIZE.

1. Horizontal multiplier. The LCD display will show:

ENTER X SIZE(1~4) 1

Enter horizontal multiplier (1~4). Press **ENTER** to accept your selection.

2. Vertical multiplier. The LCD display will show:

ENTER Y SIZE(1~7) 1

Enter vertical multiplier (1~7). Press **ENTER** to accept your selection.

NOTE: The default value in both case is 1.

3. Enter Text Data. The LCD display will show:

ENTER DATA : _

Enter the Text data and press **ENTER**.

(Q) BARCODE DATA FIELD.

1. **Narrow bar ratio.** The LCD display will show:

NARROW (2 TO 4) 2

Enter narrow bar to width in dots.(2 to 4).
Press **ENTER** to accept your selection.

NOTE: The default value is 2.

2. Wide bar ratio. The LCD display will show:

WIDE(4 TO 12) 5

Enter wide bar width in dots(4 to 12) Press ENTER to accept your selection.

NOTE: The default value is 5.

3. Barcode height. The LCD display will show:

HEIGHT (1 TO 7) 3

Enter Barcode Height(1 to 7). Press ENTER to accept your selection.

NOTE: The default value is 3.

4. Human Readable. The LCD display will show:

READABLE(Y/N) Y

Enter Y and human readable is enabled. Enter N and human readable is disabled. Press ENTER to accept your selection.

NOTE: The default value is Y.

5. Enter Barcode. The LCD display will show:

ENTER DATA:

Enter the Barcode data and press ENTER to accept your selection. The keyboard will automatically revert to menu K.

(R) SAVE FORMAT TO MEMORY CARD.

The LCD display will show:

SAVE FORM(Y/N)

Enter **N** - Keyboard will automatically step to next field.

Enter **Y** - LCD display will show:

Enter form name:

You can enter a maximum of sixteen characters to define a label name. Press **ENTER** to save your format to the memory module.

(S) HOW TO SET UP DATA FIELD AS A VARIABLE.

1. If the data field is to be a variable, then the LCD display will show:

DATA LENGTH?(1~34)

A variable field allows the operator to input variable field data while the keyboard is in the PRINT MODE enter DATA LENGTH(1~34, Dependent upon Font size & Label width).

Press **ENTER** to accept your selection.

2. The LCD display will show:

ENTER X SIZE(1-4)

Same procedure as **(P)**. Press **ENTER** to accept your selection.

3. The LCD display will show:

ENTER Y SIZE(1-7)

Same procedure as **(P)**. Press **ENTER** to accept your selection.

4. The LCD display will show:

POSITION OR PRESS D ?

Press "Shift"+"TAB1" Add one space in front of data.
Press "Shift"+"TAB2" Add eight spaces in front of data.
Press "&" This field and next field will be the same line.
Press "Shift"+"INS/L" To insert a field.
Press "Shift"+"DEL/L" To delete this field.
Press **D** to step to next screen.

5. The LCD display will show:

POSITION OR PRESS D ?
•••••

The boxes displayed represent character fields to indicate to the operator the length (in characters) of the variable data.

Example: If the data length is 5, LCD will show 5 blocks. If the data length is 3, LCD will show 3 blocks. Press **ENTER** to proceed to next menu.

6. LCD display will show:

SERIAL NUMBER(Y/N)
N

Press **N** to setup field with normal data, press **ENTER** to accept your selection. The Keyboard will automatically revert to menu K. Press **Y** to setup field with a incrementing counter, press **ENTER** to accept your selection.

Note : N is the default value.

7. LCD display will show:

ENTER STEP:

Enter the increment step for this serial field.
Press **ENTER** to accept your selection.

5. PRINT MODE OPERATION.

(a) LCD display will show:

RESTORE FORM(Y/N)

Press **N** to load format from memory module.
Press **ENTER** to step to next menu.
Press **Y** and go directly to menu(d).

(b) LCD display will show:

ENTER FORM NAME:
LAB1

Use the cursor keys to highlight the label format required or type in the format name directly. Press **ENTER** to accept your selection.

(c) LCD display will show:

WAIT FOR LOADING
.....> <<.....

If there are any variable fields in the restored label format, the operator will prompted with the following:

ENTER TEXT:

Type in variable **text** data and press **ENTER** to accept your selection.

ENTER BARCODE:

Type in variable **barcode** data and press **ENTER** to accept your selection.(d) LCD display will show:

HOW MANY TO PRINT ?

Enter label quantity and press **ENTER** to print selected label.

6. ERASE FORMAT

This operation allows the operator to erase one of the formats saved in the memory module.

The LCD display will show:

ENTER FORM NAME:
LAB1

You may use the cursor keys to highlight the appropriate label or you may type in the label format name. Press **ENTER** key to accept your selection.

The LCD display will show:

LAB1
ERASE(Y/N)

Press **Y** to erase this format.

Press **N** to escape.

Keyboard will exit to menu screen.

7. ERASE ALL FORMAT

This operation allows the delete all previously stored label formats. The LCD display will show:

ERASE ALL(Y/N)

Press **Y** to erase all formats.

Press **N** to escape.

Keyboard will exit to menu screen.

8. SPECIAL FEATURES OPERATION

(a) TAB KEY

TAB1 = 1 SPACE.

TAB2 = 8 SPACES.

(b) PROCEDURE FOR DELETING A DATA FIELD

If the operator wishes to delete a data field in a label format, use the cursor keys to highlight the unwanted field. The LCD display may show:

ENTER DATA 12345

Press both the **SHIFT** key and the **DEL/L** key. The LCD display will show:

DELETE DATA (Y/N)

Press **Y** to delete this field.

Press **N** to escape.

(c) PROCEDURE FOR INSERTING A DATA FIELD

Use the same procedure as above, but at **ENTER DATA** menu the LCD display may show:

ENTER DATA (Y/N) 12345

Press both the **SHIFT** key and the **INS/L** key. The LCD display will show:

INSERT DATA (Y/N)

Press **Y** to step to next menu (see **EDIT MODE OPERATION** - Section L). Press **N** to escape.

(d) TWO DATA FIELDS ON THE SAME LINE.

At **ENTER DATA** menu, the LCD display may show:

ENTER DATA (Y/N) 12345

If you type a **&** sign as the last character in this data field, the keyboard will print the next data field and this data field on the same line.

Appendix A. Pin Assignment

KP-200 (9 PIN FEMALE)

<u>PIN</u>	<u>SIGNAL</u>
2	(TXD)
3	(RXD)
5	(GND)
9	(VCC)

Baud Rate : 4800 BPS
Data Length : 8
Stop Bit : 1
Parity : N

Appendix B. Font Expansions

1X1	2X1	3X1	4X1
1X2	2X2	3X2	4X2
1X3	2X3	3X3	4X3
1X4	2X4	3X4	4X4
1X5	2X5	3X5	4X5
1X6	2X6	3X6	4X6
1X7	2X7	3X7	4X7