

Chinese_Addendum

MODEL : LK-BXX Series

4" DESKTOP LABEL PRINTER



Command Reference

This section contains a complete listing of all commands in alphabetical order.

Chinese Character Printer EPL2 Programming Manual Addendum

The Chinese configuration printers support printer programming specified in the EPL2 (PageMode) Programmer's Manual with additions of a modified **A** command, **i** Command (Inter-character spacing) and the Chinese Character code pages. The commands are described in more detail on the following pages.

Asian Character Set (Fonts 8 & 9)

The EPL2 programming language supports up to two (2) font sets of a single Asian language as well as the standard Latin (Multilingual) fonts 1-5 and downloadable fonts (A-Z and a-z). All fonts can be expanded both horizontally and vertically. The Asian fonts can also be printed from top to bottom or in the Latin character orientation from left to right. The Asian printers support the standard Latin fonts with the single character map code page 437 for all five (5) fonts.

The Asian characters are 16 bit (or double byte) mapped characters. The printed Asian character is dependent on the double byte ASCII values. The Latin (English, etc.) font sets are 8 bits per (or single byte) ASCII character maps.



Only One (1) Asian language is supported by a printer. Each Asian language (character set) is a separate printer firmware version.

Asian printers with flash firmware can be reprogrammed for a different Asian language but we do not recommend this for normal use.

A Command - ASCII Text

Description Prints a character string.

Syntax **A**_{p₁},_{p₂},_{p₃},_{p₄},_{p₅},_{p₆},_{p₇},"DATA"

Parameters **p₁** = Horizontal start position (X) in dots.
p₂ = Vertical start position (Y) in dots.
p₃ = Rotation (Orientation)

Value	Description
0	No rotation, Left to Right
1	90 degrees, Left to Right
2	180 degrees, Left to Right
3	270 degrees, Left to Right

p₄ = Font selection

Value	Description	
	203 dpi	300 dpi
1	20.3 cpi, 6 pts, (8 x 12 dots)	25 cpi, 4 pts, (12 x 20 dots)
2	16.9 cpi, 7 pts, (10 x 16 dots)	18.75 cpi, 6 pts, (16 x 28 dots)
3	14.5 cpi, 10 pts, (12 x 20 dots)	15 cpi, 8 pts, (20 x 36 dots)
4	12.7 cpi, 12 pts, (14 x 24 dots)	12.5 cpi, 10 pts, (24 x 44 dots)
5	5.6 cpi, 24 pts, (32 x 48 dots)	6.25 cpi, 24 pts, (48 x 80 dots)
8	Simplified Chinese 203 dpi fonts : 24 x 24 dot 300 dpi Double-byte fonts : 36 x 36 dot 300 dpi Single-byte fonts : 24 x 36 dot	
9	Traditional Chinese 300 dpi Double-byte fonts: 36 x 36 dot 300 dpi Single-byte fonts : 24 x 36 dot	
A - Z	Reserved for Soft Font	

Note 1: Fonts 1-5 are the standard EPL2 expandable fixed pitch (size) dot fonts.

Note 2: The Asian character sets use the command to set the inter-character space between printed characters of a (A) command text data string.

A Command - ASCII Text

p₅ = Horizontal multiplier, expands printed text horizontally. Range: 1 - 6, and 8.

p₆ = Vertical multiplier, expands printed text vertically. Range: 1 - 9

p₇ = N for normal or R for reverse image

"DATA" = Represents a fixed data field
 The backslash (\) character designates the following character is a literal and will encode into the data field. Refer to the following examples
 To Print Enter into data field

"Company" W"CompänyW
 W WW
 WcodeW WWcodeWW

Examples

N
 S1
 D12
 A50,0,0,1,1,1,N,"Example 1"
 A50,50,0,2,1,1,N,"Example 2"
 A50,100,0,3,1,1,N,"Example 3"
 A50,150,0,4,1,1,N,"Example 4"
 A50,200,0,3,2,2,R,"Example 5"
 A50,280,0,8,2,2,N,"Example 6"
 A50,350,0,8,1,1,N,"Example 7 布歩簿部"
 P1

Will Produce:



Note: As shown in the example above, font 5 (example 5) only supports the uppercase characters.

A Command - ASCII Text

The data field can be replaced by or combined with the following command/functions:

- Vnn** = Prints the contents of variable "nn" at this position where nn is a 2 digit number from 00 to 99
- Cn** = Prints the contents of counter n at this position where n is a one digit number from 0 to 9
- TT** = Prints the current time at this position in the predefined format. See the EPL2 programmer's manual **TT** command, for format selection. This variable is only available if the printer has the RTC (Time & Date) option installed.
- TD** = Prints the current date at this position in the predefined format. See the EPL2 programmer's manual **TD** command, for format selection. This variable is only available if the printer has the RTC (Time & Date) option installed.

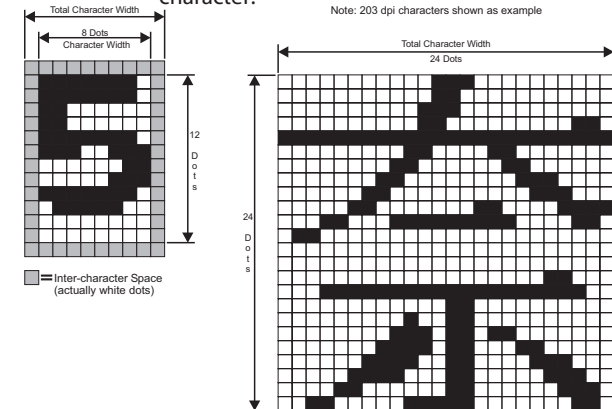
Examples: A50,0,0,1,1,1,N,"DATA" ↵ : Prints quoted string
 A50,50,0,2,1,1,N,V01 ↵ : Insert variable and print
 A50,100,0,3,1,1,N,C1 ↵ : Insert counter and print
 A50,150,0,4,1,1,N,TT ↵ : Insert current time and print
 A50,200,0,5,1,1,N,TD ↵ : Insert current date and print

or a combination of several options:

A50,300,0,3,2,2,R,"Deluxe"V01C2"Combo"TDV01TT ↵
 : Writes the text "Deluxe" followed by the contents of variable 01
 : followed by the contents of counter 2 followed by the text "Combo"
 : followed by the current date followed by the contents of variable 01
 : followed by the current time.

A Command - ASCII Text

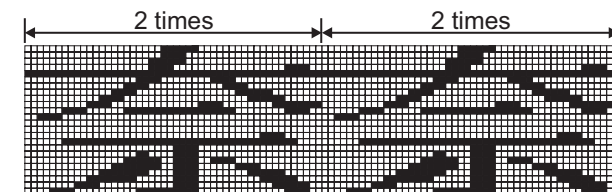
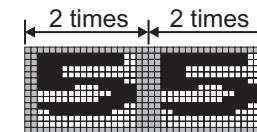
The standard Latin font (1-5) characters are dot mapped differently than the Asian font (8 & 9) characters. The Asian character does not have a built-in inter-character gap. The Latin characters include a single dot border around each character.



Fonts 1 (8 x 12 dots)

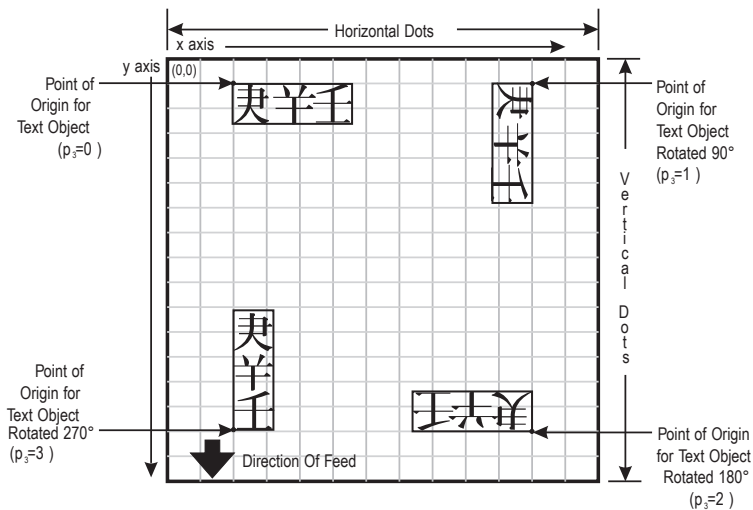
Font 8 (24 x 24 dots)

With the **(A)** command's horizontal multiplier **(p5)** set to 2, the inter-character spacing will look like the following example.



A Command - ASCII Text

The Asian fonts can print character strings oriented from top to bottom (p_3 values 4–7) as well as the standard Latin word orientation from left to right (p_3 values 0–3). The characters will print in the sequence that they are entered into the (A) command's data field



The printer automatically recognizes single byte characters and double byte characters.

The single byte font characters are mapped to hexadecimal address range 00 to 7F hex (0–127 decimal) for 203 dpi printers and 00 to FF hex (0–255 decimal) for 300 dpi printers.

The double byte font characters are mapped to hexadecimal address range A1A0 to F7FF hex. First byte, 161 (A1h) and second byte 160 (A0h) to first byte, 247 (F7h) and second byte, 255 (FFh) is the decimal, grouped byte range.

i Command – Asian Character Spacing

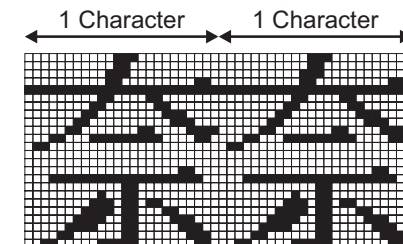
Description Places an adjustable inter-character space between Asian font characters, fonts 8 and 9, only. The inter-character spacing gets multiplied with the text string by the selected font's horizontal and vertical multiplier values.

Note: At the time of print, the printers are not capable of using the **i** command within forms.

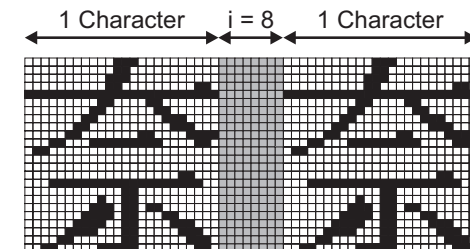
Syntax **ip₁**

Parameters **p₁** = Space in dots between Asian characters.
Range: 0-9 (dots)
Default: 0 (dots or no space)

(i) Command
Parameter Set to Default (0 dots)



(i) Command
Parameter Set to 8 (8 dots)



Fonts 15 Fonts 1–5 are single byte, ASCII characters. See the EPL2 programme’s manual for fonts and codepages supported by the printer

Fonts 8 and 9 The single byte font characters are mapped to hexadecimal address range 00 to 7F hex (0–127 decimal). Font 8 are ASCII, codepage 437, single byte characters. See below for the character map. (203 dpi printer characters shown)

0	-	⓪	Ⓛ	♥	♦	♣	♠	•	■	☐	♂	♀	♣	*			
16	-																
32	-		!	"	#	¥	%	&	'	()	*	+	,	-	.	/
48	-	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	-	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	-	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
96	-	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
112	-	p	q	r	s	t	u	v	w	x	y	z	{		}	-	

Fonts 8 and 9 The Chinese ideographic font characters are mapped to double byte hexadecimal address range A1A0 to F7FF hex. See the following pages for the codepage character mappings.

Simplified – 203 dpi printers

Simplified – 300 dpi printers

Traditional – 300 dpi printer



J. STEPHEN Lab., Ltd.

374-2, Gajang-dong, Osan-si, Gyeonggi-do, 447-210, Korea
TEL : +82-31-459-8200 FAX : +82-31-459-8880
www.miniprinter.com