

Korean\_Addendum

## MODEL : LK-BXX Series

4" DESKTOP LABEL PRINTER



### Command Reference

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

# Korean Character Printer EPL2 Programming Manual Addendum

This addendum contains information unique to Zebra Technologies Korean character bar code printers. The Korean configuration printers support printer programming specified in the EPL2 (Page Mode) Programmer's Manual with additions of a modified **A** command, **i** Command (Inter-character spacing) and the Korean Character code pages. The commands are described in more detail on the following pages.

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## Asian Character Set (Fonts 8)

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.

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## A Command - ASCII Text

Description Prints a character string.

Syntax **A**<sub>p<sub>1</sub></sub>.**p<sub>2</sub>**.**p<sub>3</sub>**.**p<sub>4</sub>**.**p<sub>5</sub>**.**p<sub>6</sub>**.**p<sub>7</sub>**,"DATA"

Parameters **p<sub>1</sub>** = Horizontal start position (X) in dots.

**p<sub>2</sub>** = Vertical start position (Y) in dots.

**p<sub>3</sub>** = 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

**p<sub>4</sub>** = Font selectio

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, 8 pts, (12 x 20 dots)	15 cpi, 8 pts, (20 x 36 dots)
4	12.7 cpi, 9 pts, (14 x 24 dots)	12.5 cpi, 8 pts, (24 x 44 dots)
5	5.6 cpi, 9 pts, (32 x 48 dots)	6.25 cpi, 9 pts, (48 x 80 dots)
8	24 x 24 dot	Double-byte – 36 x 36 dot Single-byte – 24 x 36 dot
9	Reserved	
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

**p<sub>5</sub>** = Horizontal multiplier, expands printed text horizontally. Range: 1, 2, 3, 4, 5, 6, and 8.

**p<sub>6</sub>** = Vertical multiplier, expands printed text vertically. Range: 1 - 9.

**p<sub>7</sub>** = 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"      "\"Company\""
```

```
\              \\\
```

```
\code\         \\\code\\
```

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 가 나 다 라 "
P1

```

Will Produce:



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

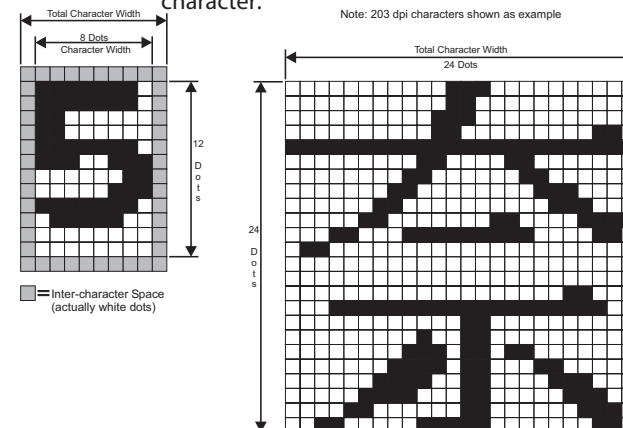
Examples: A50,0,0,1,1,1,N,"DATA" □ : Prints quoted string  
 A50,50,0,2,1,1,N,V01 □ : Insert variable and print  
 A50,100,0,3,1,1,N,C □ : Insert counter and print  
 A50,150,0,4,1,1,N,TT □ : Insert current time and print  
 A50,200,0,5,1,1,N,TD □ : Insert current date and print

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

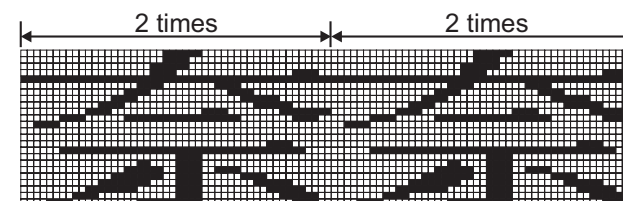
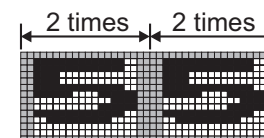
The Latin font set (1-5) characters are dot mapped differently than the Asian font (8 & 9) characters. The Asian character does not have a built-in inter-character gap. The English characters include a single dot boarder around each character.



Font 1 (8 x 12 dots)

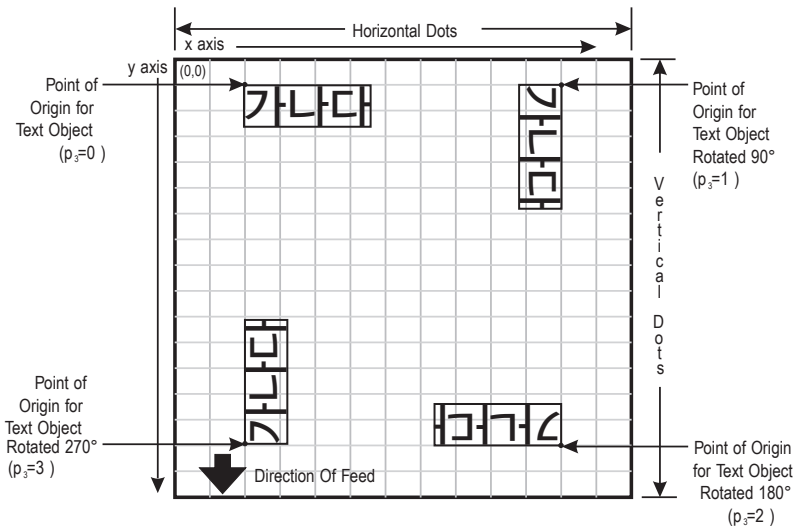
Font 8 (24 x 24 dots)

With the **(A)** command's horizontal multiplier (ps) 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, as well as the standard English 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 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).

The double byte font characters are mapped to hexadecimal address range A1A0 to F0FF hex. First byte, 161 (A1h) and second byte 160 (A0h) to first byte, 253 (FDh) and second byte, 255 (FFh) is the decimal, grouped byte range.

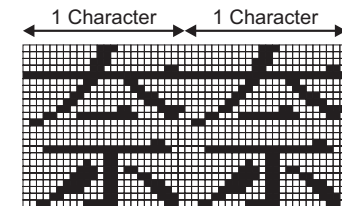
## i Command Asian Character Spacing

**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.

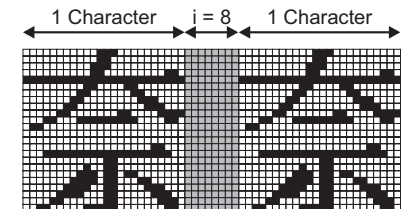
**Syntax**  $ip_1$

**Parameters**  $p_1$  = 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)



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## Fonts 1-5

Fonts 1-5 are single byte, ASCII characters. See the EPL2 programmer's manual for fonts and codepages supported by the printer.

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## Font 8 Single Byte Character Map

The single byte font characters are mapped to hexadecimal address range 00 to 7F hex (0-127 decimal).  
See below for the character map.

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	{		}	-	

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## Font 8 Double Byte Characters

The Korean font characters are mapped to double byte hexadecimal address range A1A0 to FDFF hex. See the following pages for the character maps.

[203 dpi printers](#)

[300 dpi printers](#)



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