

PRINTRONIX® **PSA3**

Programmer's Reference Manual



*KSSM Emulation For The
P7000 H-Series Of Line Matrix Printers*

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1

Introduction

About This Manual

This manual is designed so you can quickly find the information you need to operate your printer with the Korean Standard (KS) emulation.

This book does not explain how to operate the printer. For printer operation, see the *User's Manual*.

Warnings And Special Information

Read and comply with all information highlighted under special headings:

- | | |
|------------------|---|
| WARNING | Conditions that could harm you. |
| CAUTION | Conditions that could damage the printer or related equipment. |
| IMPORTANT | Information vital to proper operation of the printer. |
- NOTE:** Information affecting printer operation.

Related Product Information

Refer to the following book for printer operation:

- *User's Manual*. Provides configuration instructions, descriptions, and troubleshooting guidelines. Also describes the keys on the control panel and provides quick reference information on daily printer operations such as loading paper and replacing ribbons.

Software Features

The KSSM emulation software provides the following features:

- Graphics and print quality. You can enable graphics mode and specify a density mode (dots per inch), for either 8-pin or 24-pin images.
- Print Attributes. Characters can be bold, italic, double high, double wide, etc.
- Page Formatting. Commands which allow you to set line spacing, page length, and vertical tabbing.
- Font Typefaces. Also referred to as print modes. The six typefaces are LQ, Near LQ, Normal, Hi-Speed, Super Hi-Speed, and Ultra Hi-Speed.

2

Configuring With The Control Panel

Introduction

IMPORTANT Configuration directly affects printer operation. Do not change the configuration of your printer until you are thoroughly familiar with the procedures in this chapter.

In order to print data, the printer must respond correctly to signals and commands received from the host computer. Configuration is the process of matching the printer's operating characteristics to those of the host computer and to specific tasks, such as printing labels or printing on different sizes of paper. The characteristics that define the printer's response to signals and commands received from the host computer are called configuration parameters. Examples are line spacing, form length, etc.

You can change the parameters by sending appropriate control codes, or by pressing keys on the control panel. Control codes offer more versatility, and they override control panel settings.

This chapter explains how to use the control panel.

Chapter 3 provides information about control codes.

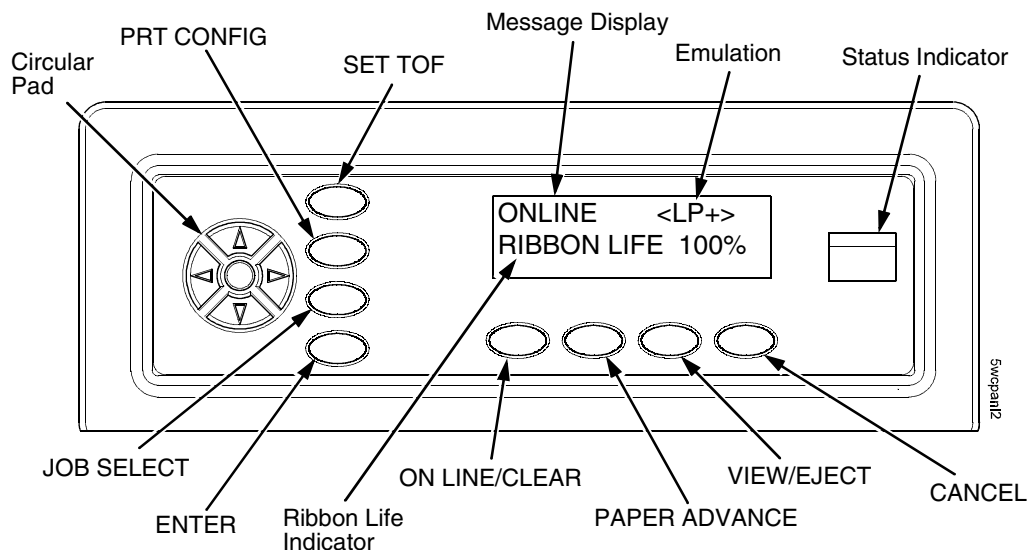
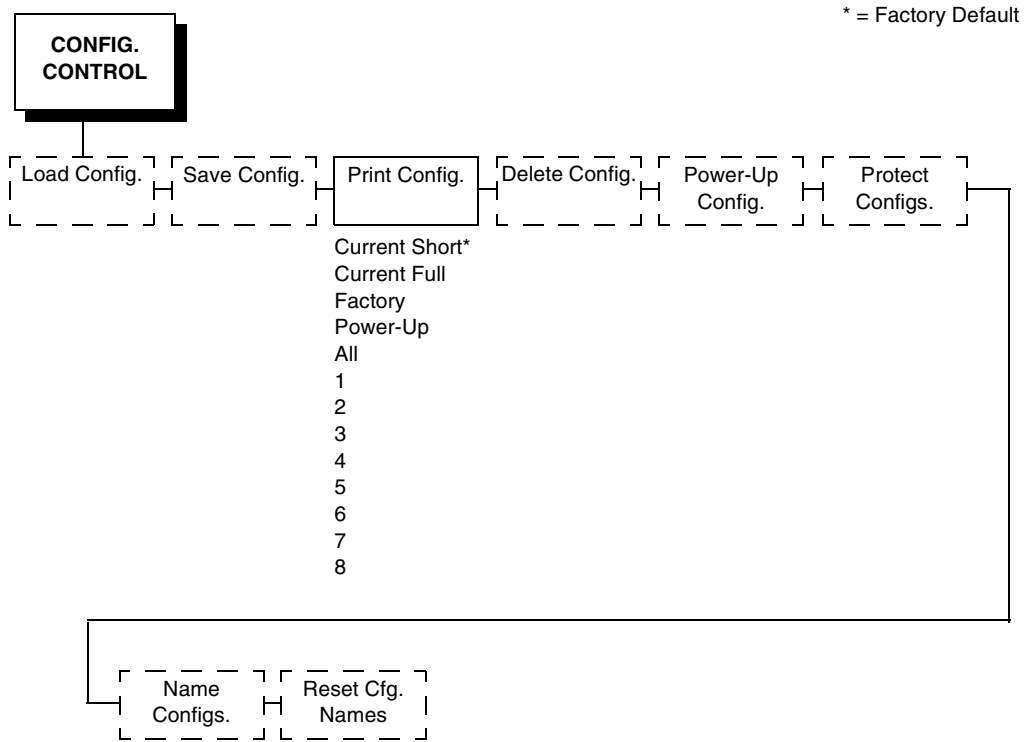


Figure 1. The Control Panel

Printing The Configuration



It is recommended you print a configuration to determine what is already stored and what needs to be modified.

You can print any or all of the configurations shown above. Configurations 1-8 are the customized configurations.

To print a configuration, follow the procedure in Table 1.

Table 1. Printing Configurations






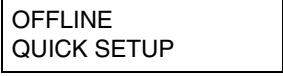

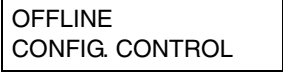

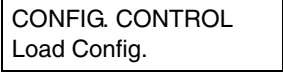

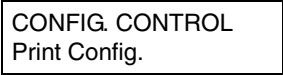

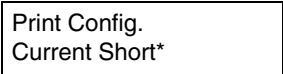
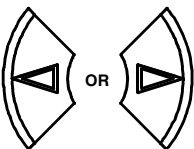
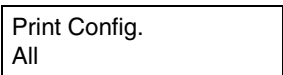

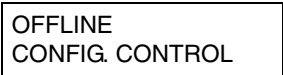



Step	Key	Result	Notes
1.	Make sure the printer is on.		
2.	ON LINE/CLEAR 		
3.	 + 	 	Allows you to make configuration changes.
4.			
5.			
6.	 UNTIL		
7.			
8.	 (OR)		Press until the desired option displays.
9.	ENTER 		The configuration listing begins printing.
10.	Carefully tear off the configuration printout.		

Table 1. Printing Configurations (continued)

Step	Key	Result	Notes
11.	 + 	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> ENTER SWITCH LOCKED </div>	Locks the ENTER key.
12.	ON LINE/CLEAR 	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> ONLINE </div>	
13.	Store the printout in a safe place. The printer is ready for operation.		

NOTE: Another way to print the current configuration is to go OFFLINE, press the PRT CONFIG key, and then press ENTER.

The Configuration Menu

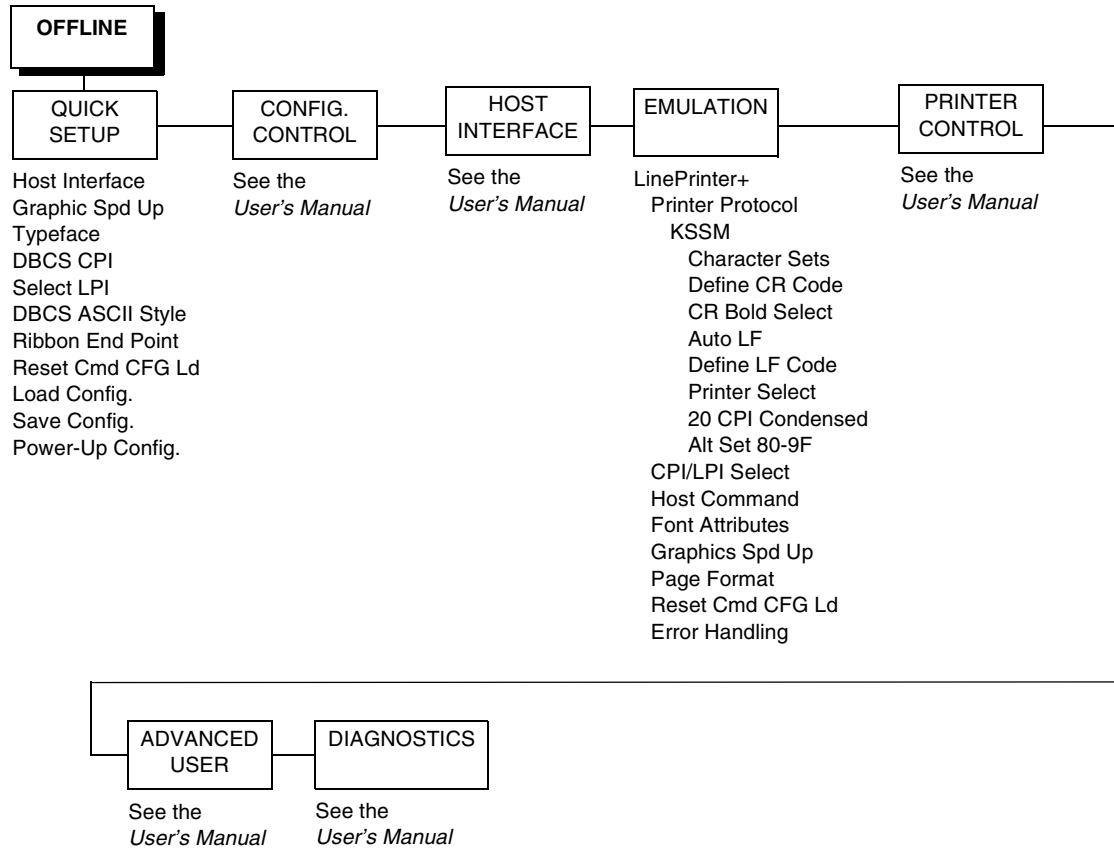


Figure 2. Configuration Menu Overview

Moving Within The Configuration Menu

The example in Table 2 explains how to change the LPI value.

Table 2. Changing Configurations





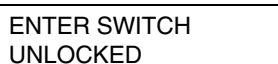




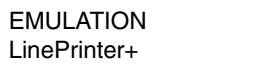

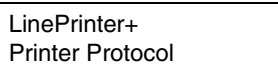

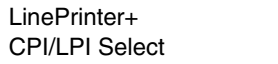

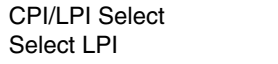


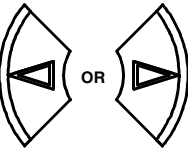

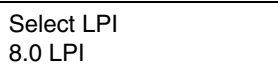






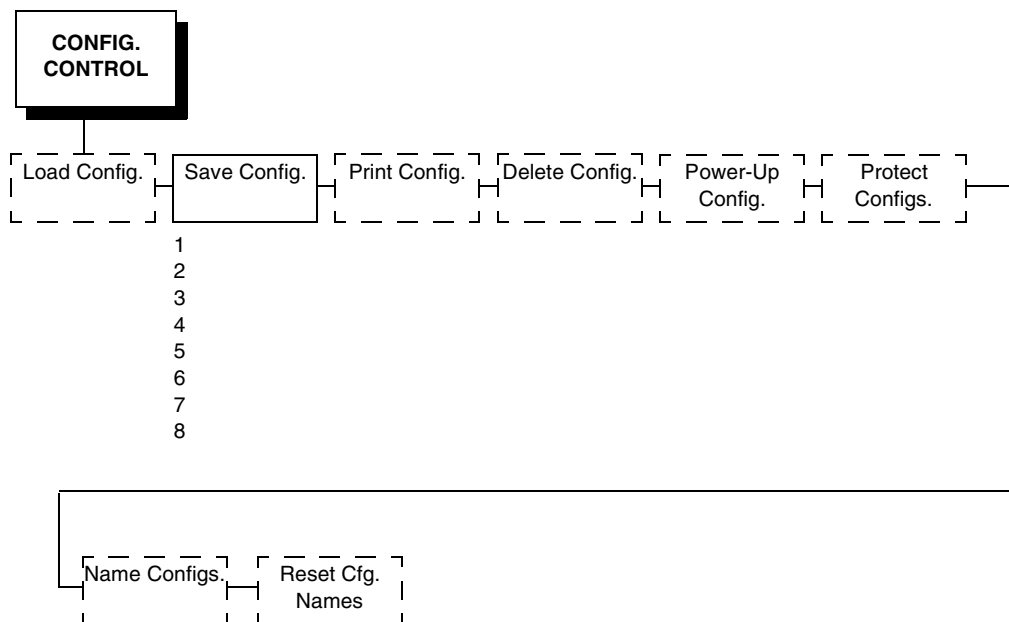
Step	Key	Result	Notes
1.	Make sure the printer is on.		
2.	ON LINE/CLEAR 		
3.	 + 	 	Allows you to make configuration changes.
4.	 UNTIL		
5.			
6.			
7.			
8.			
9.			
10.	 OR 		Press until the desired value displays.

Table 2. Changing Configurations (continued)

Step	Key	Result	Notes
11.	ENTER 	Select LPI 8.0 LPI*	An asterisk indicates the value selected.
12.	Use the diagrams on the following pages to navigate your way through the menu. Press ▲ or ▼ to move vertically; press ◀ or ▶ to move horizontally and to scroll through the values. Press ENTER to select a value. Press ONLINE/CLEAR, to move to the top of the menu.		
To SAVE CHANGES AS A CONFIGURATION that is stored in memory and can be loaded later:			
13.	 UNTIL	OFFLINE EMULATION	
14.	 UNTIL	OFFLINE CONFIG. CONTROL	
15.	Go to Table 3, step 4.		
To USE CURRENT CONFIGURATION WITHOUT SAVING:			
16.	 + 	ENTER SWITCH LOCKED	Locks the configuration parameters.
17.	ON LINE/CLEAR 	ONLINE	
18.	The printer is ready for operation. All parameters are effective as long as the printer is on. When you turn off the printer, the parameters will be erased from memory.		

Saving Your New Configuration

* = Factory Default



After changing all of the necessary parameters, it is recommended you save them as a configuration that can be stored for future use and loaded later. If you do not save your configuration before you power off the printer, all of your parameter changes will be erased. The Save Config. option allows you to save up to eight configurations to meet different print job requirements. Configurations 1 through 8 are empty until you save values to them using the Save Config. option. For example:

Config 1: Selects LQ typeface, 5 cpi, 6 lpi

Config 2: Selects Near LQ typeface, 6 cpi, 8 lpi

Once you have saved a configuration using this option, it will not be lost if you power off the printer. You can load a configuration for a specific print job and modify and resave it. You may want to print your configurations and store them in a safe place, such as inside the printer cabinet.

NOTE: The Protect Configs. parameter must be set to disable before you can save a configuration. Once you save a configuration, the Protect Configs. parameter automatically returns to enable. Once you change active emulations, any changes to the previously selected emulation will be gone unless they have been saved.

Table 3. Saving Configurations






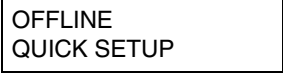



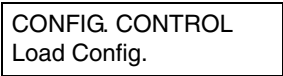

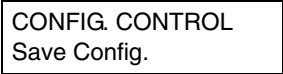

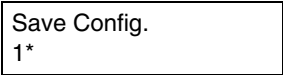
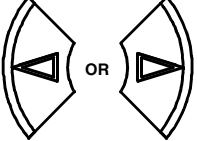

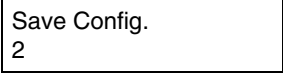

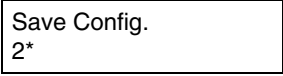


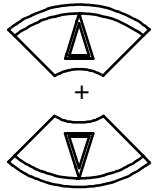

Step	Key	Result	Notes
1.			If you are already in the configuration menu, go to step 5.
2.	ON LINE/CLEAR 		
3.	 + 	 	Allows you to make configuration changes.
4.			
5.			
6.			
7.			
8.	 OR 		Press until the desired number (1-8) displays.
NOTE: Do not turn off the printer while Save is in progress because you might lose your configuration.			
9.	ENTER 		The configuration is now saved in memory. (In this case, config. 2.)
10.	 UNTIL		

Table 3. Saving Configurations (continued)

Step	Key	Result	Notes
<p>NOTE: It is recommended you print the configuration. Go to page 13, step 5. If you decide not to print the configuration, then continue with the following steps.</p>			
10.		<div style="border: 1px solid black; padding: 5px; width: fit-content;">ENTER SWITCH LOCKED</div>	Locks the ENTER key.
11.	<p>ON LINE/CLEAR</p> 	<div style="border: 1px solid black; padding: 5px; width: fit-content;">ONLINE</div>	
12.	The printer is ready for operation.		

LinePrinter Plus Menu

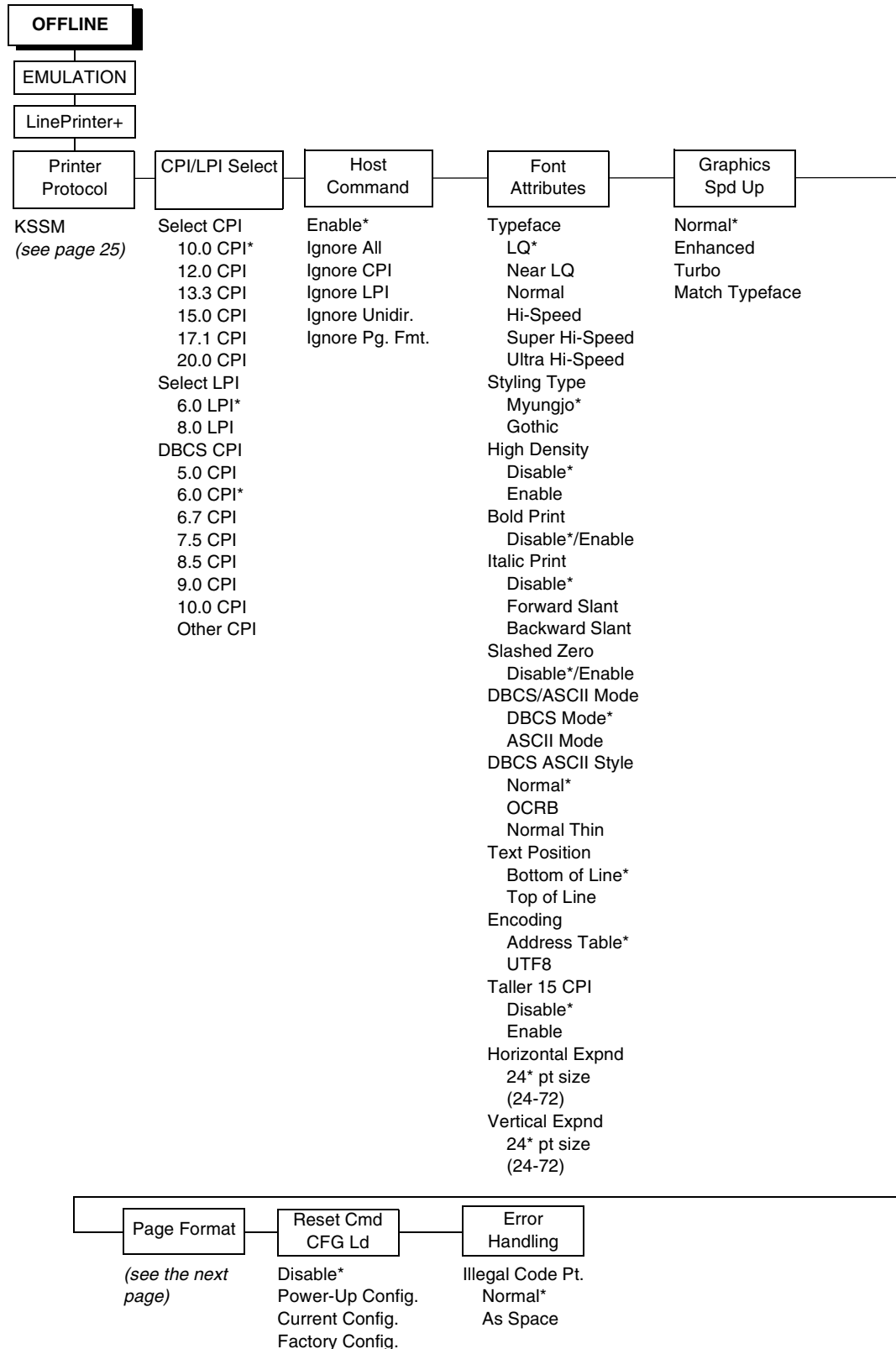
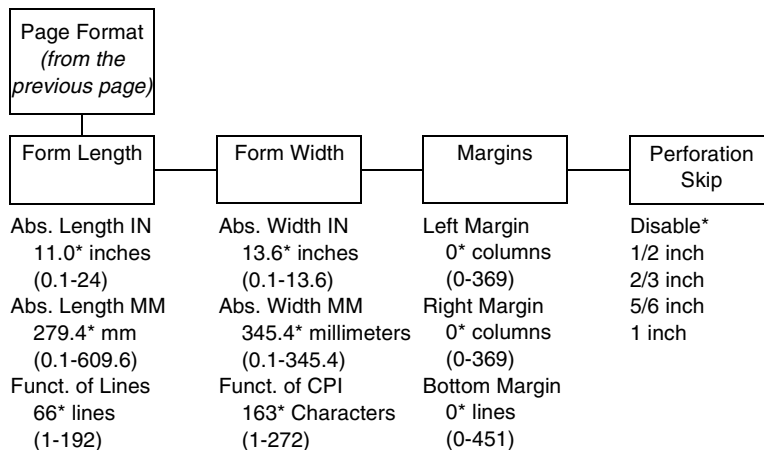


Figure 3. LinePrinter Plus Menu



CPI/LPI Select

This parameter lets you specify the characters per inch (cpi) and lines per inch (lpi) values. The defaults are:

- Select CPI - 10.0 cpi
- Select LPI - 6.0 lpi
- DBCS CPI - 6.0 cpi

Host Command

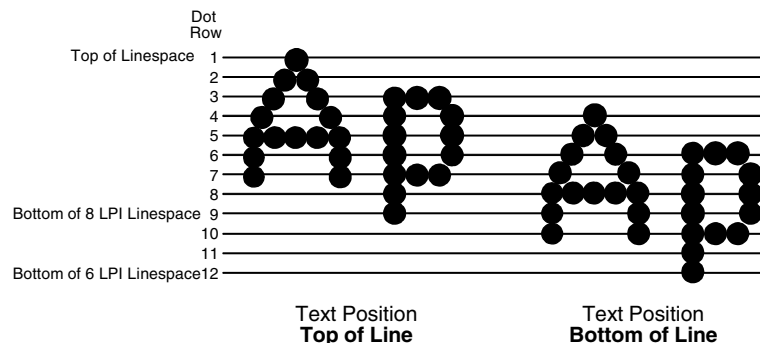
- **Enable.** The default. Enables all host printing commands.
- **Ignore All.** This function treats all control codes and printing commands as the data.
- **Ignore CPI.** This function ignores the CPI selection commands only (e.g., ESC M, ESC P, and ESC G).
- **Ignore LPI.** This function ignores the LPI selection commands only (e.g., ESC 2 and ESC 0).
- **Ignore Unidir.** All unidirectional commands sent by the host are ignored by the printer.
- **Ignore Pg. Fmt.** This function ignores all page format setting commands sent from the host.

Font Attributes

This submenu allows you to define the following font attributes: typeface, bold print, and italic print. You can also specify if the ASCII character will print with the OCRB mode. Also, specify if the zero character will print with a slash.

When High Density is enabled, the LQ Typeface will print in higher print density. It will not take effect when other typefaces are selected.

Text position specifies where the text will be positioned in the line space. When set to Top of Line, text will be positioned at the top of the line space. When set to Bottom of Line, the text will be positioned as if it were at the bottom of a 6 lpi line space. The following example shows both Top of Line and Bottom of Line text positions:



The option “DBCS/ASCII Mode” specifies the operating mode of the Hangul printer. If it is set to DBCS mode, it can print double-byte characters as well as a limited number of single-byte characters.

The option “Address Table” specifies the address table supported: KSC5601.

The option “UTF8” allows the user to input UTF8 data stream.

The option “Taller 15cpi” specifies the appearance of ASCII character in 15cpi in Ascii mode. If it is set to “Enable”, the characters in 15cpi will be the same height with other CPIs like 10cpi. If it is set to “Disable”, the characters in 15cpi will appear shorter than other CPIs like 10cpi.

The option “Horizontal Expnd” specifies the character horizontal expansion in dot for both ASCII and DBCS characters in DBCS mode.

The option “Vertical Expnd” specifies the character vertical expansion in dot for both ASCII and DBCS characters in DBCS mode.

Graphics Spd Up

This menu is used to increase (speed up) graphic printing speed by turning on the Enhanced/Turbo mode.

- **Normal.** The default. The printer prints at the given input graphics resolution.
- **Enhanced.** The printer provides first-level speed up, which means the speed is faster than Normal mode.

- **Turbo.** The printer provides second-level speed up, which means the speed is faster than Enhanced mode.
- **Match Typeface.** The input 180x180 dpi graphics resolution will drop-dot to the resolution which matches the typeface selected.

Page Format

Form Length

Forms length is the number of lines that can be printed on a page. You can set forms length in inches or in print lines per page. The most accurate method is lines per page.

Form Width

When using paper that is 8 1/2 inches wide, selecting an 8-inch print width prevents printing beyond the right margin and damaging the hammer tips and platen.

Margins

You can set the bottom, left, and right form margins.

Perforation Skip

Perforation Skip allows or prevents printing on the page perforation. When enabled, it sets up a skip-over margin of 1/2," 2/3," 5/6," or 1." For example, a skip-over margin of 1" allows a 1" margin at the bottom of the page perforation. The default is Disable.

Reset Cmd CFG Ld

When the printer receives a host data stream reset command (ESC @ in addition to resetting printer variables, the selected configuration will be loaded.

- **Disable.** The default. The active emulation parameters are loaded when the reset command is executed.
- **Power-Up Config.** The power-up configuration is loaded when the reset command is executed.
- **Current Config.** The currently selected configuration is loaded when the reset command is executed.
- **Factory Config.** The factory installed configuration is loaded when the reset command is executed.

Error Handling of Illegal Code Point

This command determines the way illegal DBCS characters are processed:

- **Normal.** The default. Will ignore illegal DBCS characters.
- **As Space.** Will insert two space characters (0X20, 0X20) when the data stream contains error DBCS coding.

KSSM Emulation

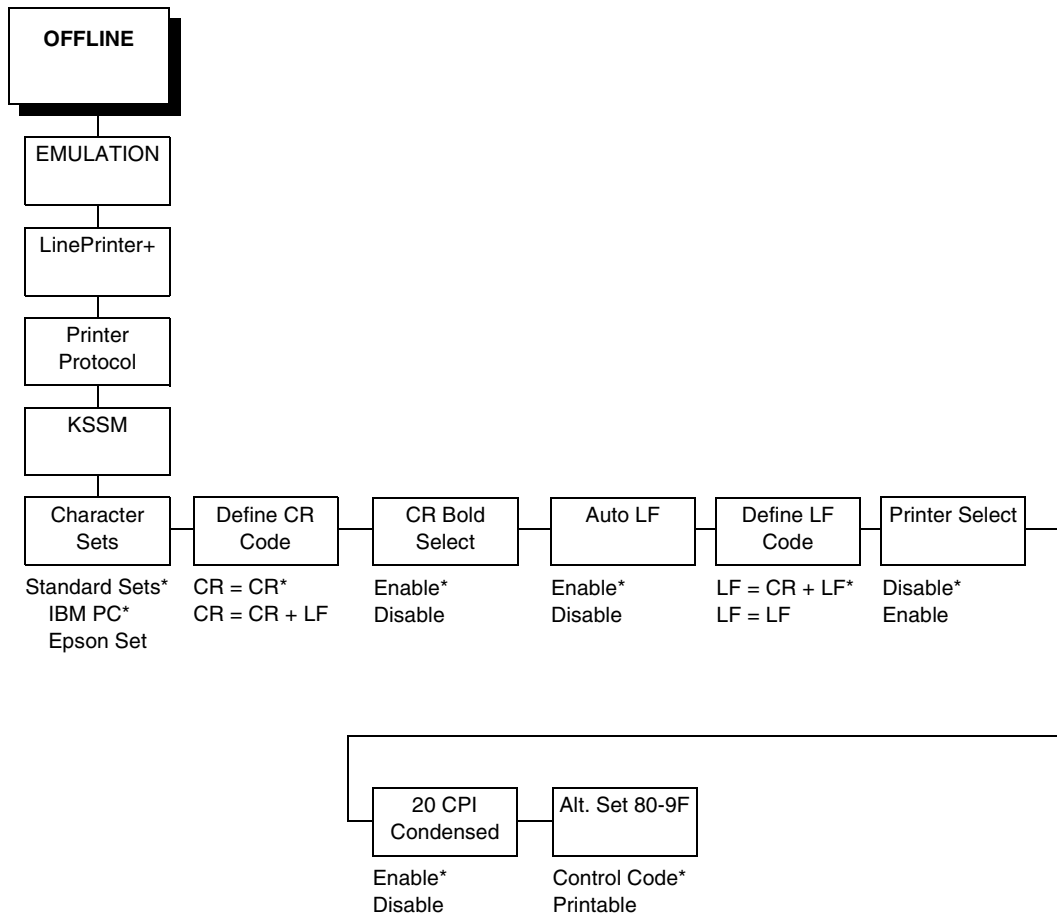


Figure 4. KSSM Emulation Menu

Character Sets

This parameter selects a character set for the KSSM emulation.

CR Bold Select

This option determines whether CR (0x0D) will turn on the bold attribute.

- **Enable.** The text after CR will be printed as bold together with the text before CR.
- **Disable.** Normal CR function.

Define CR Code

The Define CR code option controls the action of the printer when it receives a Carriage Return code (hex 0D) from the host computer. If this feature is enabled, each time the printer receives a Carriage Return, it inserts an additional Line Feed code (hex 0A) into the data stream. Do not use this feature if the host computer sends Line Feeds to the printer.

- **CR = CR.** Does not insert an extra Line Feed after each Carriage Return.
- **CR = CR + LF.** Inserts an extra Line Feed after each Carriage Return.

Auto LF

This option defines the printer actions when print data is received past the forms width setting.

- **Enable.** Performs an automatic carriage return and line feed when data is received past the forms width.
- **Disable.** Discards any data past the forms width.

Define LF Code

The Define LF code option controls the action of the printer when it receives a Line Feed code (hex 0A) from the host computer. If this feature is enabled, each time the printer receives a Line Feed, it inserts an additional Carriage Return code (hex 0D) into the data stream. This feature can be used in most installations, but it is required if the host computer does not send Carriage Returns to the printer.

- **LF = CR + LF.** Adds an extra Carriage Return with each Line Feed.
- **LF = LF.** Does not add a Carriage Return with a Line Feed.

Printer Select

- **Disable.** Ignores the ASCII DC1 and DC3 control codes.
- **Enable.** Disables the printer when a DC1 control code is received, and enables the printer when a DC3 control code is received.

20 CPI Condensed

Compressed print characters are narrower than the normal character set. This is helpful for applications for which you need to print the maximum amount of information on a page.

- **Enable.** Prints about 60 percent of the width of normal characters when compressed print is chosen by the host computer. For example, a 12 cpi font will compress to 20 cpi.
- **Disable.** Does not compress print widths, even if condensed print is chosen by the host.

Alt. Set 80-9F

- **Control Code.** Interprets data in the range of hex 80 through hex 9F as a control code.
- **Printable.** Prints data in the range of hex 80 through hex 9F.

3

LinePrinter Plus KSSM Emulation

KSSM Emulation

“Emulation” refers to the ability of a printer to execute the commands of other printer control languages.

Exceptions And Differences

Because of mechanical differences between your printer (a line matrix printer) and moving printhead serial matrix printers, some features are approximated or not supported.

- The KSSM emulation supports the following print modes: LQ, Near LQ, Normal, Hi-Speed, Super Hi-Speed, and Ultra Hi-Speed.
- Various character sets can be used including IBM-PC Graphics (IBM Code Page 437) and Epson.
- Commands not supported by our printer are:
 - Control paper loading/ejecting (ESC EM *n*)
 - Select user-defined set (ESC % *n*)
 - Define user-defined characters (ESC & NUL *n m*)
 - Copy ROM to RAM (ESC :)
 - Select justification (ESC a)
 - Select typeface (ESC k)
 - Select printing colour (ESC r *n*)
 - Select 17/180-inch line spacing (ESC 1)
 - One line unidirectional printing (ESC <)
 - Absolute position of Hangul and Hanji (FS \$ *n*)
 - Multiple byte Hangul character printing (FS M *n1 n2*)
 - Print ASCII characters as in ASCII mode (FS a *n*)
 - Select Hangul completed/combined font (FS t *n*)

Default Values And States

Your printer stores a set of typical operating states and conditions in the flash memory. The first time you power up the printer, the factory settings in Table 4 are automatically invoked.

Table 4. Factory Settings

Characteristic	Default Setting
Select LPI	6.0
Select CPI	10.0
DBCS CPI	6.0
Host Command	Enable
Typeface	LQ
Styling Type	Myungjo
High Density	Disable
Bold Print	Disable
Italic Print	Disable
Slashed Zero	Disable
DBCS/ASCII Mode	DBCS Mode
DBCS ASCII Style	Normal
Text Position	Bottom of Line
Encoding	Address Table
Taller 15 CPI	Disable
Graphics Spd Up	Normal
Left Margin	0 columns
Right Margin	0 columns
Bottom Margin	0 lines
Perforation Skip	Disable
Form Length	11.0 inches 279.4 millimeters 66 lines
Form Width	13.6 inches 345.4 millimeters 163 characters
Reset Cmd CFG Ld	Disable
Illegal Code Pt.	Normal
Define CR Code	CR = CR

Table 4. Factory Settings

Characteristic	Default Setting
Auto LF	Enable
Define LF Code	LF = CR + LF
Printer Select	Disable
20 CPI Condensed	Enable
Alt Set 80-9F	Control Code

Escape Sequences

Some KS control codes consisting of more than one character are called escape sequences because the first character in the sequence is the ASCII ESCape character. ESC alerts the printer that a special function command—not printable characters—follows.

The format for an escape sequence is:

ESC (parameter 1)(parameter 2)...(parameter *n*)

For example, to select emphasized (offset) print, send the ESC character immediately followed by the E character (do not add a space character):

ASCII: ESC E **Hex:** 1B 45**Dec:** 27 69

FS Sequences

Another type of control code which consists of more than one character is called an “FS sequence,” because the first character is the ASCII FS character. This control code is used when the printer is printing Double Byte Character Set (DBCS) characters. The FS alerts the printer that a special function command (not printable characters) follows. Most FS commands work only on DBCS characters.

The format for an FS sequence is:

FS (parameter 1)(parameter 2)...(parameter *n*)

For example, to rotate DBCS characters by 90Xcounter-clockwise, send an FS character immediately followed by the J character:

ASCII: FS J **Hex:** 1C 4A**Dec:** 28 74

Super-Set Commands

The unique control code sequence for both SSCC and ASSC commands are defined in the table below:

Control Code	ASCII Value	Hex Value	Dec Value
SSCC	ESC | } ;	1B 7C 7D 3B	27 124 125 59
ASSC	ESC | } ; q	1B 7C 7D 3B 71	27 124 125 59 113

Set And Reset Codes

Set and reset are other ways of saying turn on and turn off; select and deselect; or enable and disable.

Some printer features are set and reset with an escape sequence and the numbers 1 or 0. In those cases, you can represent 1 and 0 as hexadecimal codes 01 and 00, or as the ASCII codes for the numerals 1 and 0 (hexadecimal 31 and 30).

Configuring The KSSM Emulation With Control Codes

The remainder of this chapter describes the KS printer control language codes that may be sent from a host computer attached to the printer in order to invoke and configure numerous KS emulation functions.

Format For Control Code Descriptions

The following information is listed for each code (where applicable and possible) in this chapter:

ASCII Mnemonic. The ASCII name for the control code.

Hex Code. The hexadecimal equivalent of the code. (For octal equivalents, refer to Appendix A.)

Dec Code. The decimal equivalent of the code.

Purpose. The function(s) of the control code.

Comment. A description of exceptions or limitations to normal use.

Example. A sample is provided for some control codes to illustrate how the code is used.

Control Code Index

The following index lists the control codes by function, ASCII mnemonic, and page number. Some control code functions can also be selected at the control panel.

FUNCTION	ASCII CODE	PAGE
Setting the Page Format		
Set Bottom Margin	ESC N <i>n</i>	67
Cancel Bottom Margin	ESC O	67
Set Left Margin	ESC 1 <i>n</i>	70
Set Page Length in Inches	ESC C NUL <i>n</i>	71
Set Page Length in Lines	ESC C <i>n</i>	71
Set Right Margin	ESC Q <i>n</i>	72
Moving the Print Position		
Advance Print Position Vertically	ESC J <i>n</i>	34
Backspace	BS	35
Carriage Return	CR	39
Form Feed	FF	44
Line Feed	LF	46
Set Absolute Horizontal Print Position	ESC \$ <i>n1 n2</i>	67
Set Relative Horizontal Print Position	ESC \ <i>n1 n2</i>	72
Tab Horizontally	HT	75
Tab Vertically	VT	75
Turn Auto-wrap Around On/Off	ESC d <i>n</i>	76
Setting the Units		
Select 1/6-inch Line Spacing	ESC 2	50
Select 1/8-inch Line Spacing	ESC 0	50
Set <i>n</i> /60-inch Line Spacing	ESC A <i>n</i>	66
Set <i>n</i> /180-inch Line Spacing	ESC 3 <i>n</i>	66
Set Horizontal Tabs	ESC D <i>n₁ n₂ ... n_k</i> NUL	68
Set Vertical Tab Channels	ESC / <i>m</i>	73
Set Vertical Tabs	ESC B <i>n₁ n₂ ... n_k</i> NUL	73
Set Vertical Tabs in VFU Channels	ESC b <i>m n₁ ... n_k</i> NUL	74

FUNCTION	ASCII CODE	PAGE
Selecting Characters		
Define Pattern for Special Printing Effect	ESC (X <i>n</i> ₁ <i>n</i> ₂ <i>a</i> ₁ <i>a</i> ₂ <i>a</i> ₃	40
Master Select	ESC ! <i>n</i>	47
Select 10 CPI	ESC P	51
Select 12 CPI	ESC M	51
Select 15 CPI	ESC g	51
Select an International Character Set	ESC R <i>n</i>	54
Select Bold Font	ESC E	56
Cancel Bold Font	ESC F	56
Select Character Style	ESC q <i>n</i>	56
Select Character Table	ESC t <i>n</i>	57
Select Condensed Printing	SI	57
Select Condensed Printing	ESC SI	58
Cancel Condensed Printing	DC2	58
Select Double-strike Printing	ESC G	59
Cancel Double-strike Printing	ESC H	59
Select Double-width Printing (One Line)	SO	60
Cancel Double-width Printing (One Line)	ESC SO	60
Cancel Double-width Printing (One Line)	DC4	60
Select Italic Font	ESC 4	63
Cancel Italic Font	ESC 5	63
Select Print Quality	ESC x <i>n</i>	63
Select Superscript/Subscript Printing	ESC S <i>n</i>	64
Cancel Superscript/Subscript Printing	ESC T	65
Set Intercharacter Space	ESC SP <i>n</i>	69
Turn Double-height Printing On/Off	ESC w <i>n</i>	76
Turn Double-width Printing On/Off	ESC W <i>n</i>	77
Turn Proportional Mode On/Off	ESC p <i>n</i>	79
Turn Underline On/Off	ESC - <i>n</i>	79
Control-code Character Printing		
Enable Printing of Upper Control Codes	ESC 6	42
Enable Upper Control Codes	ESC 7	43
Mechanical Control		
Beeper	BEL	39

FUNCTION	ASCII CODE	PAGE
Printing Graphics		
Select Bit Image	ESC * $m n_L n_H d_1 \dots d_k$	55
Select 60-dpi Graphics	ESC K $n_L n_H d_1 d_2 \dots d_k$	52
Select 120-dpi Graphics	ESC L $n_L n_H d_1 d_2 \dots d_k$	52
Select 120-dpi Graphics	ESC Y $n_L n_H d_1 d_2 \dots d_k$	53
Select 240-dpi Graphics	ESC Z $n_L n_H d_1 d_2 \dots d_k$	53
Reassign Bit-image Mode	ESC ? $n m$	50
Data and Memory Control		
Cancel Line	CAN	39
Delete Last Character in Buffer	DEL	41
Initialise Printer	ESC @	45
Select Printer	DC1	64
Deselect Printer	DC3	64
Hangul Extension Commands		
Align SBCS Character with DBCS Character	FS U	34
Cancel the Alignment of SBCS Character with DBCS Character	FS V	35
Define User-defined Chinese Character	FS 2 $a_1 a_2 d_1 d_2 d_3 \dots d_{72}$	41
Divided Hangul Double Height	FS X n	42
Master Select in DBCS Mode	FS ! n	48
Pair Two Characters in Vertical Printing	FS D $d_1 d_2$	49
Select DBCS Print Quality	FS x n	59
Select Double-width Printing in DBCS Mode (One Line)	FS SO	61
Cancel Double-width Printing in DBCS Mode (One Line)	FS DC4	61
Select DBCS Mode	FS &	62
Cancel DBCS Mode	FS .	62
Select Hangul Myunjo/Gothic Style	FS k n	62
Select DBCS Super/Subscript Printing	FS r n	65
Select Vertical Printing	FS J	65
Cancel Vertical Printing (Select Horizontal Printing)	FS K	66
Set DBCS Character Half Width	FS SI	68
Cancel DBCS Character Half Width and Super/Subscript Printing	FS DC2	68
Set Intercharacter Spacing of DBCS Character	FS S $n_1 n_2$	69
Set Intercharacter Spacing of SBCS Character	FS T $n_1 n_2$	70
Turn Double-width, Double-height Printing On/Off	FS W n	77

FUNCTION	ASCII CODE	PAGE
Hangul Extension Commands (continued)		
Turn Extending Table Character On/Off	FS v <i>n</i>	78
Turn Underline On/Off	FS - <i>n</i>	80
Superset Command		
Barcode Printing	SSCC c <i>t</i>	36
Graphics Printing: Select Bit Image	SSCC * <i>m nL nH d1...dk</i>	45
Turn On/Off OCRB Printing	ASSC 0 z <i>n</i>	78
Define User Defined Character	ASSC 0 2	40
Font Expansion	ASSC 0 e	43
Graphic Printing	ASSC 0 *	44
Master Select One-Line Attribute	ASSC 0 !	49

Advance Print Position Vertically

ASCII Code ESC J *n*

Hex Code 1B 4A *n*

Dec Code 27 74 *n*

Purpose Advances the vertical print position $n/180$ inch.

Where:
 $0 \leq n \leq 255$

Comment This command does not affect the horizontal print position.

Advances paper to the top-of-form position on the next page if the ESC J command moves the print position below the bottom-margin position setting.

Align SBCS Character with DBCS Character

ASCII Code FS U

Hex Code 28 85

Dec Code 1C 55

Purpose Aligns two SBCS characters to fit the space normally occupied by a full-width DBCS character that does not have a half-width, subscript, or superscript feature.

Comment A DBCS character with half-width, subscript, or superscript feature is treated as an SBCS character.

The intercharacter space of the next character is set by the FS S command.

In the default mode, the SBCS character aligns with the DBCS character.

Cancel The Alignment of SBCS Character With DBCS Character

ASCII Code FS V

Hex Code 28 86

Dec Code 1C 86

Purpose Cancels the spacing adjustment of SBCS characters to fit the space normally occupied by a full-width DBCS character.

Comment This command cancels the effect of the FS U command.
This command makes the FS T command affect the spacing of the SBCS character.
In the default mode, the SBCS character aligns with the DBCS character.

Backspace

ASCII Code BS

Hex Code 08

Dec Code 8

Purpose Moves the print position to the left a distance equal to one character in the current pitch plus any additional intercharacter space.

Comment The printer ignores this command if the command would move the print position to the left of the left margin.
In DBCS mode, the command takes effect in double byte character setting.

Barcode Printing

ASCII Code SSCC *c t, d data d* [; *N n ; xxxx ; yyyy*] [; *X mmmm*] [; *P p*] [; *C*] [; *H hh*] [; *D*] [; *F q data q*]

Hex Code SSCC 63 *t, d data d* [; 4E *n ; xxxx ; yyyy*] [; 58 *mmmm*] [; 50 *p*] [; 43] [; 48 *hh*] [; 44] [; 46 *q data q*]

Dec Code SSCC 99 *t, d data d* [; 78 *n ; xxxx ; yyyy*] [; 88 *mmmm*] [; 80 *p*] [; 67] [; 72 *hh*] [; 68] [; 70 *q data q*]

Where:

t = type of Barcode

<i>t</i> (ASCII)	<i>t</i> (hex)	Selects Barcode
B	42	Codabar
C	43	Code 39
9	39	Code 93
D	44	Code 128
8	38	EAN-8
1	31	EAN-13
F	46	FIM
G	47	German I-2/5
I	49	Interleaved 2/5
M	4D	MSI
4	34	PDF 417
O	4F	PostBar
P	50	POSTNET
R	52	Royal Mail
T	54	Telepen
V	56	UCC/EAN-128
A	41	UPC-A
E	45	UPC-E
S	53	UPC Shipping
U	55	UPS 11

Where:

d = barcode delimiter, which can be any character not used in the barcode data field.

Where:

data = variable length printable data field (PDF); character set is Alphanumeric

The following parameters are optional:

Where:

N = activates the offset

Where:

n = the *x* and *y* coordinate unit system

<i>n</i> (ASCII)	Selects Value
0	Use current cpi and lpi values
1	Use ¼ inch value
2	Use ½ centimeter value : 1/(2.54x2)
3	Use 1 mm value : 1/(25.4)
4	Use target barcode dot (refer to the table below)

When $n = 4$:

Front Panel Typeface	x Offset unit (inch)	y Offset unit (inch)
LQ	1/180	1/180
Near LQ	1/120	1/120
Normal	1/180	1/144
Hi-Speed	1/180	1/120
Super Hi-Speed	1/180	1/90
Ultra Hi-Speed	1/180	1/90

Where:

xxxx = 4-digit upper left corner x (horizontal axis)

Where:

yyyy = 4-digit upper left corner y (vertical axis)

Where:

X = activates magnification

Where:

mmm = bar code magnification

The possible magnifications are listed in the table below:

Barcode Type	Magnification
Code 39	X4 X3 X2 X1 X1.5 X1A X1B *X1C *X1D *X1E
Interleaved 2/5	X4 X3 X2 X2A X1 X1A X1B
German I-2/5	X4 X3 X2 X2A X1 X1A X1B
UPC Shipping	X4 X3 X2 X1 X1.5 X1A X1B *X1C *X1D *X1E
Telepen	X4 X3 X2 X1
MSI	X4 X3 X2 X1 X1.5
Code 128	X4 X3 X2 X1 X1.5
UCC/ EAN-128	X4 X3 X2 X1 X1.5
Code 93	X2 X1
UPS 11	X2 X1
UPC-A	X2 X1
UPC-E	X2 X1
EAN 8	X4 X3 X2 X1
EAN 13	X1
Codabar	X1 X1A
Postnet	X1 X1A
Royal Mail	X1
Postbar	X3 X2 X1
FIM	
PDF417	

***Note:** the X1C, X1D, and X1E values can only be printed for horizontal 180dpi barcodes. If these values are sent for horizontal 120dpi barcodes, they will print as value X1.

Where:

P = activates printable data field variable

Where:

p = location of PDF ('A' (above), 'B' (below, default), 'N' (none))

(Note: FIM, Postbar, and PDF417 do not support this parameter.)

Where:

C = Calculate and plot check digit (if available as an option, the default is No).

Check digit if the check digit is allowed to be optional)

Where:

H = activates the height variable

Where:

hh = 2-digit barcode height in 1/10"

Where:

D = Dark barcode

(Note: This parameter does not take any effect under DBCS typefaces.)

Where:

[;F q data q] = secondary data field (optional). The secondary data field is only used to specify the barcode data when the primary data field is empty (two delimiters without any data). When the primary data field is not empty, the secondary data field is ignored.

Beeper

ASCII Code	BEL
Hex Code	07
Dec Code	7
Purpose	Sounds the printer's beeper for 1/10 second.

Cancel Line

ASCII Code	CAN
Hex Code	18
Dec Code	24
Purpose	Clears all printable characters and bit-image graphics on the current line. Moves the print position to the left-margin position.

Carriage Return

ASCII Code	CR
Hex Code	0D
Dec Code	13
Purpose	Moves the print position to the left margin position.
Comment	The user can define CR = CR or CR = CR + LF from the front panel. If CR = CR + LF, the CR command is accompanied by a LF command.

Define Pattern for Special Printing Effect

ASCII Code	ESC (X n_1 n_2 a_1 a_2 a_3
Hex Code	1B 28 58 n_1 n_2 a_1 a_2 a_3
Dec Code	27 40 88 n_1 n_2 a_1 a_2 a_3
Purpose	Defines the pattern to be used in background or to fill up outlined characters.
a_1 :	0 – To be filled as background 1 – To be used as fill pattern to fill outlined characters
a_2 :	0 – Black on white, normal 1 – White on black 2 – Dotted
a_3 :	Treat different colours as all black
Where:	
	$n_1 = 3$
	$n_2 = 0$
	$a_1 = 0, 1$
	$0 \leq a_2 \leq 2$
	$0 \leq a_3 \leq 6$
Comment	This command covers interline spacing for our printer in both DBCS and SBCS modes.

Define User-Defined Character

ASCII Code	ASSC 0 2 a_1 a_2 $d1...d144$
Hex Code	ASSC 30 32 a_1 a_2 $d1...d144$
Dec Code	ASSC 48 50 a_1 a_2 $d1...d144$
Purpose	Sets the ASCII format data for a user-friendly character. The user-defined characters can be printed by sending a_1 a_2 to the printer.
Where:	
	a_1 = high byte code point
	a_2 = low byte code point
	$d1...d144$ = 144 bytes ASCII format data
Comment	This command takes effect only in DBCS mode.

Define User-Defined Chinese Character

ASCII Code FS 2 $a_1 a_2 d_1 d_2 d_3 \dots d_{72}$

Hex Code 1C 50 $a_1 a_2 d_1 d_2 d_3 \dots d_{72}$

Dec Code 28 32 $a_1 a_2 d_1 d_2 d_3 \dots d_{72}$

Purpose Sets the parameters for user-defined characters

$a_1 a_2$ Character code of the character to be user-defined.

$d_1 d_2 d_3 \dots d_{72}$

Data to define the character in which the cell size is 24x24.

Where:

C9A1H < $a_1 a_2$ < C9FEH

FEA1H < $a_1 a_2$ < FEFEH

Comment The user-defined character can be printed by sending $a_1 a_2$ to the printer.

Delete Last Character in Buffer

ASCII Code DEL

Hex Code 7F

Dec Code 127

Purpose Deletes the last printable character in the print buffer's current line.

Comment This command deletes printable characters only; printer control codes are not affected.

The printer ignores this command if it follows a command that moves the horizontal print position (ESC \$, ESC \, or HT).

Divided Hangul Double Height

ASCII Code FS X *n*

Hex Code 28 58 *n*

Dec Code 1C 88 *n*

Purpose Turns on/off divided double height printing of all characters as follows:

n = 0 Turns off divided double height

n = 1 Double height upper part of character

n = 2 Double height lower part of character

n = 3 Double height whole character

Where:

0 <= *n* <= 3

Comment The line spacing of the line with upper part double height (set by FS X 1) will change to 24/180 inch.

The baseline of the line including double-height characters (set by FS X 3) moves down 24/180 inch, and the line spacing also increases 24/180 inch.

The default is Normal (non double-width double-height) printing.

Enable Printing of Upper Control Codes

ASCII Code ESC 6

Hex Code 1B 36

Dec Code 27 54

Purpose Tells the printer to treat codes 128 to 159 as printable characters instead of control codes.

Comment This command affects the front panel setting of "Alt. Set 80-9F."

This command works in ASCII mode only.

In the default mode, codes 128 to 159 are treated as printable characters.

Enable Upper Control Codes

ASCII Code ESC 7

Hex Code 1B 37

Dec Code 27 55

Purpose Tells the printer to treat codes from 128 to 159 as control codes instead of printable characters.

Comment This command affects the front panel setting of "Alt. Set 80-9F."
In the default mode, codes 128 to 159 are treated as printable characters.

Font Expansion

ASCII Code ASSC 0 e n1 n2

Hex Code ASSC 30 65 n1 n2

Dec Code ASSC 48 101 n1 n2

Purpose Expand the DBCS character up to the size of 72.

For this command to work, n1 must be the same value as n2 (i.e. n1 = n2). When n1 and n2 = 25 to 72, this set font expansion mode is ON. The value of n1 and n2 will determine the bitmap size. For example, if the size of n1 is 50, then the size of the bitmap will be set to 50x50. For n1 and n2 = 24, the font expansion mode will reset to OFF and the bitmap size reverts to the default, 24x24.

Inter-line spacing and inter-character spacing calculations are based on standard setting as if bitmap is 24x24. This command will only increase the size of the bitmap and not affect inter-character spacing or inter-line spacing. For example, if inter-line spacing is 6 dot rows, when the bitmap is expanded from 24x24 to 72x72, the inter-line spacing still remains as 6 dot rows. This is the same for inter-character spacing.

Other commands, such as double height, double width, 2x2 times, left/right margin etc., will not function when font expansion mode is set on. For different typefaces, the characters will expand based on approximate typeface resolution. All commands affecting LPI and CPI will still take effect and is set based on the bitmap being 24x24.

Where:

n1 = 24 ~ 72

n2 = 24 ~ 72

This control code does not function while in non-DBCS mode.

Form Feed

ASCII Code FF

Hex Code 0C

Dec Code 12

Purpose Advances the vertical print position on continuous paper to the top-margin position of the next page.

Moves the horizontal print position to the left-margin position.

Comment The FF command cancels one-line double-width printing selected with the SO, ESC SO, or FS SO commands.

Graphic Printing

ASCII Code ASSC 0 * m nL nH d1...dk

Hex Code ASSC 30 2A m nL nH d1...dk

Dec Code ASSC 48 42 m nN nH d1...dk

Purpose Prints dot-grphics in 16 or 24-dot columns, depending on the following parameters:

Where:

m specifies the dot density

nL, nH specifies the total number of columns or graphics data that follow (number of dot columns) = ((nHx256) + nL)

d1...dk specifies bytes of graphics data; k is determined by multiplying the total number of columns times the number of bytes required for each column.

Parameter m is ASSC*	Horizontal Density (dpi)	Vertical Density (dpi)	Dots Per Column	Bytes Per Column
0	180	180	24	3
1	90	180	24	3
2	120	120	16	2
3	90	144	24	3
4	90	120	16	2
5	90	90	16	2

Graphics Printing: Select Bit Image

ASCII Code $SSCC * m n_L n_H d_1 \dots d_k$

Hex Code $SSCC 2A m n_L n_H d_1 \dots d_k$

Dec Code $SSCC 42 m n_L n_H d_1 \dots d_k$

Purpose Prints dot-graphics in 12- or 16-dot columns, depending on the following parameters:

m Specifies the dot density

n_L, n_H Specifies the total number of columns of graphics data that follow (number of dot columns) = $((n_H \times 256) + n_L)$

$d_1 \dots d_k$ Bytes of graphics data; k is determined by multiplying the total number of columns times the number of bytes required for each column

Where:

$0 \leq n_L \leq 255$

$0 \leq n_H \leq 31$

$m = 48, 49, 50$

Comment Dot density:

Parameter m in ESC *	Horizontal Density (dpi)	Vertical Density (dpi)	Dots per column	Bytes per column
48	90	90	12	2
49	120	120	16	2
50	90	90	16	2

Initialize Printer

ASCII Code ESC @

Hex Code 1B 40

Dec Code 27 64

Purpose Reloads the power-up configuration if "Reset Cmd CFG Ld" is Enable. Otherwise, resets to the internal default value.

Line Feed

ASCII Code LF

Hex Code 0A

Dec Code 10

Purpose Advances the vertical print position one line (in the currently set line spacing).

The LF command cancels one-line double-width printing selected with the SO, ESC SO, or FS SO commands.

Comment The user can define LF = LF or LF = CR + LF from the front panel.

If LF = CR + LF, the printer moves the horizontal print position to the left-margin position.

If the LF command moves the print position below the bottom margin on continuous paper, the printer advances to the top-of-form position on the next page.

Master Select

ASCII Code ESC ! *n*

Hex Code 1B 21 *n*

Dec Code 27 33 *n*

Purpose Selects any combination of several font attributes and enhancements by setting or clearing the appropriate bit in the *n* parameter, as shown in the table below:

Where:

$0 \leq n \leq 255$

Bit	On/Off	Hex	Dec	Function	Equivalent
0	Off	00	0	Select 10 cpi	ESC P
	On	01	1	Select 12 cpi	ESC M
1	Off	00	0	Cancel proportional	ESC p 0
	On	02	1	Selects proportional	ESC p 1
2	Off	00	0	Cancel condensed	DC2
	On	04	1	Selects condensed	SI
3	Off	00	0	Cancel bold	ESC F
	On	08	1	Selects bold	ESC E
4	Off	00	0	Cancel double-strike	ESC H
	On	10	16	Selects double-strike	ESC G
5	Off	00	0	Cancel double-width	ESC W 0
	On	20	32	Selects double-width	ESC W 1
6	Off	00	0	Cancel italics	ESC 5
	On	40	64	Selects italics	ESC 4
7	Off	00	0	Cancel underline	ESC - 0
	On	80	128	Selects underline	ESC - 1

Comment This command cancels any attributes or enhancements that are not selected.

Master Select In DBCS Mode

ASCII Code FS ! *n*

Hex Code 1C 21 *n*

Dec Code 28 33 *n*

Purpose Selects any combination of several font attributes and enhancements by setting or clearing the appropriate bit in the *n* parameter, as shown below:

Bit	On/Off	Hex	Dec	Function	Equivalent
0	Off	00	0	Cancel vertical printing	FS K
	On	01	1	Select Vertical printing	FS J
1	Off	00	0	Cancel half width	FS DC2
	On	02	1	Select half width	FS SI
2	Off	00	0	Cancel double width	ESC W 0
	On	04	1	Select double width	ESC W 1
3	Off	00	0	Cancel double height	FS X 0
	On	08	1	Select double height	FS X 3
4	Off	00	0	Select quarter printing	FS r n
	On	10	16	Cancel quarter printing	FS DC2
5	Off	00	0	Select superscript	FS r 0
	On	20	32	Select subscript	FS r 1
6	Off	00	0		
	On	40	64		
7	Off	00	0	Cancel underline	FS - 0
	On	80	128	Selects underline	FS - 1

Where:

$0 \leq n \leq 255$

Comment This command cancels any attributes or enhancements that are not selected.

Master Select One-Line Attribute In DBCS Mode

ASCII Code ASSC 0 ! n

Hex Code ASSC 30 21 n

Dec Code ASSC 48 33 n

Purpose Where:
 $0 \leq n \leq 255$
 Select any combination of several one-line attributes by setting or clearing the appropriate bit in the n parameter, as show in the table below.

Bit	On/Off	Hex	Dec	Function
2	Off	00	0	Cancel double width
	On	04	4	Select double width
3	Off	00	0	Cancel double height
	On	08	8	Select double height

Comment These attributes are canceled when the printer receives the following commands: LF, FF, VT, and CR.

This command takes effect only in DBCS mode.

Pair Two Characters in Vertical Printing

ASCII Code FS D $d_1 d_2$

Hex Code 1C 44 $d_1 d_2$

Dec Code 28 68 $d_1 d_2$

Purpose Aligns two rotated characters to fit the space occupied by a normal size rotated character where d_1 is the lower character and d_2 is the upper character. Both d_1 and d_2 can be SBCS characters or DBCS characters. If the character is a DBCS character, it will automatically be half-width.

Comment This command has an effect only in vertical printing mode.

Only two characters are combined at a time.

Reassign Bit-image Mode

ASCII Code ESC ? *n m*

Hex Code 1B 3F *n m*

Dec Code 27 63 *n m*

Purpose Assigns the dot density used during the ESC K, ESC L, ESC Y, or ESC Z commands to the density specified by parameter *m* in the ESC * command.

Where:

$n = 75, 76, 89, 90$

$0 \leq m \leq 40$

Comment The default settings are as follows:

ESC K is assigned density 0

ESC L is assigned density 1

ESC Y is assigned density 2

ESC Z is assigned density 3

Select 1/6-inch Line Spacing

ASCII Code ESC 2

Hex Code 1B 32

Dec Code 27 50

Purpose Sets the line spacing to 1/6 inch.

Comment Changing the line spacing does not affect previous settings for vertical tabs or page length.

This command affects the front panel setting of "Select LPI."

Select 1/8-inch Line Spacing

ASCII Code ESC 0

Hex Code 1B 30

Dec Code 27 48

Purpose Sets the line spacing to 1/8 inch.

Comment Changing the line spacing does not affect previous settings for vertical tabs or page length.

This command affects the front panel setting of "Select LPI."

Select 10 CPI

ASCII Code ESC P

Hex Code 1B 50

Dec Code 27 80

Purpose Selects 10-cpi character pitch.

Comment If you change the fixed-pitch setting with this command during proportional mode (selected with the ESC p command), the change takes effect when the printer exits proportional mode.

This command affects "Select CPI" on the front panel.

This command takes effect only in SBCS mode.

Select 12 CPI

ASCII Code ESC M

Hex Code 1B 4D

Dec Code 27 77

Purpose Selects 12-cpi character pitch.

Comment If you change the fixed-pitch setting with this command during proportional mode (selected with the ESC p command), the change takes effect when the printer exits proportional mode.

This command affects "Select CPI" on the front panel.

This command takes effect only in SBCS mode.

Select 15 CPI

ASCII Code ESC g

Hex Code 1B 67

Dec Code 27 103

Purpose Selects 15-cpi character pitch.

Comment If you change the fixed-pitch setting with this command during proportional mode (selected with the ESC p command), the change takes effect when the printer exits proportional mode.

Characters from 0x80 to 0xFE cannot be printed in this mode.

This command affects "Select CPI" on the front panel.

This command takes effect only in SBCS mode.

Select 60-dpi Graphics

ASCII Code ESC K $n_L n_H d_1 d_2 \dots d_k$

Hex Code 1B 4B $n_L n_H d_1 d_2 \dots d_k$

Dec Code 27 75 $n_L n_H d_1 d_2 \dots d_k$

Purpose Prints bit-image graphics in 8-dot columns, at a density of 60 horizontal by 60 vertical dpi, according to the following parameters:

n_L, n_H Specifies the total number of columns (k) of graphics data.

$$k = ((n_H \times 256) + n_L)$$

$d_1 \dots d_k$ Bytes of graphic data

Where:

$$0 \leq n_L \leq 255$$

$$0 \leq n_H \leq 31$$

$$0 \leq d \leq 255$$

Comment The ESC * 0 command is identical to this command.

Select 120-dpi Graphics

ASCII Code ESC L $n_L n_H d_1 d_2 \dots d_k$

Hex Code 1B 4C $n_L n_H d_1 d_2 \dots d_k$

Dec Code 27 76 $n_L n_H d_1 d_2 \dots d_k$

Purpose Prints bit-image graphics in 8-dot columns, at a density of 120 horizontal by 60 vertical dpi, according to the following parameters:

n_L, n_H Specifies the total number of columns (k) of graphics data.

$$k = ((n_H \times 256) + n_L)$$

$d_1 \dots d_k$ Bytes of graphic data

Where:

$$0 \leq n_L \leq 255$$

$$0 \leq n_H \leq 31$$

$$0 \leq d \leq 255$$

Comment The ESC * 1 command is identical to this command.

Select 120-dpi Graphics

ASCII Code	ESC Y $n_L n_H d_1 d_2 \dots d_k$
Hex Code	1B 59 $n_L n_H d_1 d_2 \dots d_k$
Dec Code	27 89 $n_L n_H d_1 d_2 \dots d_k$
Purpose	Prints bit-image graphics in 8-dot columns, at a density of 120 horizontal by 60 vertical dpi, according to the following parameters: n_L, n_H Specifies the total number of columns (k) of graphics data. $k = ((n_H \times 256) + n_L)$ $d_1 \dots d_k$ Bytes of graphic data Where: $0 \leq n_L \leq 255$ $0 \leq n_H \leq 31$ $0 \leq d \leq 255$
Comment	The ESC * 2 command is identical to this command.

Select 240-dpi Graphics

ASCII Code	ESC Z $n_L n_H d_1 d_2 \dots d_k$
Hex Code	1B 5A $n_L n_H d_1 d_2 \dots d_k$
Dec Code	27 90 $n_L n_H d_1 d_2 \dots d_k$
Purpose	Prints bit-image graphics in 8-dot columns, at a density of 240 horizontal by 60 vertical dpi, according to the following parameters: n_L, n_H Specifies the total number of columns (k) of graphics data. $k = ((n_H \times 256) + n_L)$ $d_1 \dots d_k$ Bytes of graphic data Where: $0 \leq n_L \leq 255$ $0 \leq n_H \leq 31$ $0 \leq d \leq 255$
Comment	The ESC * 3 command is identical to this command.

Select an International Character Set

ASCII Code ESC R *n*

Hex Code 1B 52 *n*

Dec Code 27 82 *n*

Purpose Selects the set of characters printed for specific character codes, as listed below:

- n* = 0 USA
- = 1 France
- = 2 Germany
- = 3 United Kingdom
- = 4 Denmark
- = 5 Sweden
- = 6 Italy
- = 7 Spain I
- = 8 Japan (English)
- = 9 Norway
- = 10 Denmark II
- = 11 Spain II
- = 12 Latin America
- = 13 Korean

Where:

$0 \leq n \leq 13$

Select Bit Image

ASCII Code ESC * $m n_L n_H d_1 \dots d_k$

Hex Code 1B 2A $m n_L n_H d_1 \dots d_k$

Dec Code 27 42 $m n_L n_H d_1 \dots d_k$

Purpose Prints dot-graphics in 8- or 24-dot columns, depending on the following parameters:

m Specifies the dot density

n_L, n_H Specifies the total number of columns of graphics data that follows (number of dot columns) = $((n_H \times 256) + n_L)$

$d_1 \dots d_k$ Bytes of graphics data; k is determined by multiplying the total number of columns times the number of bytes required for each column

Dot density is described in the table below:

Parameter m in ESC *	Horizontal density (dpi)	Vertical density (dpi)	Dots per column	Bytes per column
0	60	60	8	1
1	120	60	8	1
2	120	60	8	1
3	240	60	8	1
4	80	60	8	1
6	90	60	8	1
32	60	180	24	3
33	120	180	24	3
38	90	180	24	3
39	180	180	24	3
40	360	180	24	3

Where:

$0 \leq n_L \leq 255$

$0 \leq n_H \leq 31$

$m = 0, 1, 2, 3, 4, 6, 32, 33, 38, 39, 40$

Select Bold Font

ASCII Code ESC E

Hex Code 1B 45

Dec Code 27 69

Purpose Sets the weight attribute of the font to Bold.

Comment This command increases the weight of printed lines and characters, resulting in bolder printing.

This command affects “Bold Print” on the front panel.

The default is Normal (non-bold) print.

Cancel Bold Font

ASCII Code ESC F

Hex Code 1B 46

Dec Code 27 70

Purpose Sets the font to Normal (cancels the bold print previously set with the ESC E command).

Comment This command affects “Bold Print” on the front panel.

The default is Normal (non-bold) print.

Select Character Style

ASCII Code ESC q *n*

Hex Code 1B 71 *n*

Dec Code 27 113 *n*

Purpose Turns on/off outline and shadow printing, according to the parameters below:

n = 0 Turns off outline/shadow printing

n = 1 Turns on outline printing

n = 2 Turns on shadow printing

n = 3 Turns on outline and shadow printing

Where:

$0 \leq n \leq 3$

Comment This command does not affect graphics characters.

Select Character Table

ASCII Code ESC t *n*

Hex Code 1B 74 *n*

Dec Code 27 116 *n*

Purpose Selects the character table to be used for printing among the two character tables described below:

<i>n</i> = 0 or 48	Character table 0	0x80-0x9f Control code, 0xa0-0xff Italic
<i>n</i> = 1 or 49	Character table 1	0x80-0xff Printable code, IBM PC437

Where:

$0 \leq n \leq 1$, $48 \leq n \leq 49$

Currently, the setting on the front panel of "Alt. Set 80-9F" determines whether $n = 0$ would be treated as Control Code or Printable Code. Thus, this determines the setting $n = 1$.

Comment This command affects the front panel setting of "Character Set."

Select Condensed Printing

ASCII Code SI

Hex Code 0F

Dec Code 15

Purpose Enters condensed mode, in which character width is reduced as follows:

Selected pitch	Condensed pitch
10 cpi	17.14 cpi
12 cpi	20 cpi
Proportional	½ width

Comment This command is ignored under the following two conditions:
15-cpi printing has been selected with the ESC g command.

This command reduces character width by about 50% when proportional spacing is selected with the ESC p command.

Cancel condensed printing with the DC2 command.

This command only takes effect in SBCS mode.

The default is Non-condensed printing.

Select Condensed Printing

ASCII Code ESC SI

Hex Code 1B 0F

Dec Code 27 15

Purpose Enters condensed mode, in which character width is reduced as follows:

Selected pitch	Condensed pitch
10 cpi	17.14 cpi
12 cpi	20 cpi
Proportional	½ width

Comment This command is ignored under the following two conditions:
15-cpi printing has been selected with the ESC g command.

This command reduces character width by about 50% when proportional spacing is selected with the ESC p command.

Cancel condensed printing with the DC2 command.

If the front panel setting of “20 CPI Condensed” is Disable, 12-cpi printing will ignore the Condense command.

The default is Non-condensed printing.

Cancel Condensed Printing

ASCII Code DC2

Hex Code 12

Dec Code 18

Purpose Cancels condensed printing selected by the SI or ESC SI commands.

Comment The default is Normal (non-condensed) printing.

Select DBCS Print Quality

ASCII Code	FS x <i>n</i>
Hex Code	1C 78 <i>n</i>
Dec Code	28 120 <i>n</i>
Purpose	Selects different print quality according to the following values: <i>n</i> = 0 or 48LQ <i>n</i> = 1 or 49Hi-Speed <i>n</i> = 2 or 50Near LQ <i>n</i> = 3 or 51Super Hi-Speed <i>n</i> = 4 or 52Normal <i>n</i> = 5 or 53Ultra Hi-Speed Where: <i>n</i> = 0, 1, 2, 3, 4, 5, 48, 49, 50, 51, 52, 53
Comment	This command affects the front panel selection of "Typeface." This command only works in DBCS mode. The default mode is according to the setting of front panel.

Select Double-strike Printing

ASCII Code	ESC G
Hex Code	1B 47
Dec Code	27 71
Purpose	Prints each dot twice, with the second slightly below and right to the first, creating a bolder character.
Comment	The default is Normal (non double-strike) style.

Cancel Double-strike Printing

ASCII Code	ESC H
Hex Code	1B 48
Dec Code	27 72
Purpose	Cancels double-strike printing selected with the ESC G command.
Comment	The default is Normal (non double-strike) style.

Select Double-width Printing (One Line)

ASCII Code	SO
Hex Code	0E
Dec Code	14
Purpose	Doubles the width of all characters, spaces, and intercharacter spacing (set with the ESC SP command) on the same line as the command.
Comment	This command is cancelled when the printer receives the following commands: LF, FF, VT, DC4, ESC W 0, and CR. This command works under both ASCII and Hangul modes. The default is Normal (non double-width) printing.

Cancel Double-width Printing (One Line)

ASCII Code	ESC SO
Hex Code	1B 0E
Dec Code	27 14
Purpose	Cancels the double-width printing of all characters, spaces, and intercharacter spacing (set with the SO command).
Comment	This command works under both ASCII and Hangul modes.

Cancel Double-width Printing (One Line)

ASCII Code	DC4
Hex Code	14
Dec Code	20
Purpose	Cancels double-width printing selected by the SO or ESC SO commands.
Comment	This command does not cancel double-width printing selected with the ESC W command. The default is Normal (non double-width) printing.

Select Double-width Printing in DBCS Mode (One Line)

ASCII Code FS SO

Hex Code 1C 0E

Dec Code 28 14

Purpose Doubles the width of all characters, spaces, and intercharacter spacing (set with the FS S or FS T commands) on the same line as the command.

Comment This command is cancelled when the printer receives the following commands: LF, FF, VT, DC4, FS W 0, and CR.

This command can be cancelled by FS W 0 and FS !

This command works under ASCII mode, and it works the same as the SO or ESC SO commands.

The default is Normal (non double-width) printing.

Cancel Double-width Printing in DBCS Mode (One Line)

ASCII Code FS DC4

Hex Code 28 14

Dec Code 1C 20

Purpose Cancels double-width printing selected by the FS SO command.

Comment This command does not cancel double-width printing selected by the FS W command.

The default is Normal (non double-width) printing.

Select DBCS Mode

ASCII Code FS &

Hex Code 1C 26

Dec Code 28 38

Purpose Sets the printer in DBCS mode.

Comment In DBCS mode, all the data received by the printer with the MSB set will be paired with the next character to be a DBCS (double byte character system) character. Otherwise, the character will be treated individually as SBCS (single byte character system) character and printed accordingly.

The DBCS mode should be set before processing Hangul characters.

This command affects the front panel setting of "DBCS/ASCII mode."

The default is DBCS mode.

Cancel DBCS Mode

ASCII Code FS .

Hex Code 1C 2E

Dec Code 28 46

Purpose Cancels DBCS mode. The printer is set back to ASCII mode.

Comment A few ESC commands only work in ASCII mode.

This command affects the front panel setting of "DBCS/ ASCII MODE."

The default is DBCS mode.

Select Hangul Myunjo/Gothic Style

ASCII Code FS k *n*

Hex Code 1C 6B *n*

Dec Code 28 107 *n*

Purpose Selects Myunjo/Gothic style according to the following values:

n = 0 or 2 Set Myunjo style

n = 1 or 3 Set Gothic style

Where:

0 <= *n* <= 3

Comment The default is Myunjo style.

Select Italic Font

ASCII Code ESC 4

Hex Code 1B 34

Dec Code 27 52

Purpose Sets the style attribute of the font to Italics.

Comment This command selects italic printing even if the italic character table is not selected.

This command affects "Italic Print" on the front panel.

The default is Normal (non-italic) style.

Cancel Italic Font

ASCII Code ESC 5

Hex Code 1B 35

Dec Code 27 53

Purpose Sets the font style to Normal (cancels the italic style previously selected with the ESC 4 command).

Comment This command affects "Italic Print" on the front panel.

The default is Normal (non-italic) style.

Select Print Quality

ASCII Code ESC x *n*

Hex Code 1B 78 *n*

Dec Code 27 120 *n*

Purpose Selects the print quality according to the following values:

n = 0 or 48Hi-Speed

n = 1 or 49LQ

n = 2 or 50Near LQ

n = 3 or 51Super Hi-Speed

n = 4 or 52Normal

n = 5 or 53Ultra Hi-Speed

Where:

n = 0, 1, 2, 3, 4, 5, 48, 49, 50, 51, 52, 53

Comment This command affects the front panel setting of "Typeface."

Select Printer

ASCII Code	DC1
Hex Code	11
Dec Code	17
Purpose	Selects the printer after it has been deselected with the DC3 command.
Comment	The printer ignores this command if the user has set the printer offline by pressing the online button.

Deselect Printer

ASCII Code	DC3
Hex Code	13
Dec Code	19
Purpose	Deselects the printer.
Comment	The printer cannot be reselected by pressing the online button.

Select Superscript/Subscript Printing

ASCII Code	ESC S <i>n</i>
Hex Code	1B 53 <i>n</i>
Dec Code	27 83 <i>n</i>
Purpose	Prints characters that follow at about 2/3 their normal height; the printing location depends on the value of <i>n</i> as follows: <i>n</i> = 1 or 49 Lower part of the character space <i>n</i> = 0 or 48 Upper part of the character space Where: <i>n</i> = 0, 1, 48, 49
Comment	This command does not affect graphics characters. The width of super/subscript characters when using proportional spacing is the same as that of normal characters. The underline strikes through the descenders on subscript characters during underline mode. Use the ESC T command to cancel super/subscript printing. This command only takes effect in SBCS mode. The default is Normal (non-super/subscript) printing.

Cancel Superscript/Subscript Printing

ASCII Code	ESC T
Hex Code	1B 54
Dec Code	27 84
Purpose	Cancels super/subscript printing selected by the ESC S command.
Comment	The default is Normal (non-super/subscript) printing.

Select DBCS Super/Subscript Printing

ASCII Code	FS r <i>n</i>
Hex Code	28 72 <i>n</i>
Dec Code	1C 114 <i>n</i>
Purpose	Prints characters that follow at about ½ their normal width and ½ their normal height; the printing location depends on the value of <i>n</i> as follows: <i>n</i> = 1 or 49 Lower part of the character space <i>n</i> = 0 or 48 Upper part of the character space Where: <i>n</i> = 0, 1, 48, 49
Comment	Use the FS DC2 command to cancel super/subscript printing. This command resets DBCS half-width printing set by the FS SI command. The default is Normal (non-super/subscript).

Select Vertical Printing

ASCII Code	FS J
Hex Code	28 4A
Dec Code	1C 74
Purpose	The character is printed in the same position with 90 degrees rotation in a counter-clockwise direction under Hangul mode.
Comment	Use the FS K command to cancel vertical printing. This command does not take effect on single-byte characters. The default is Normal (horizontal).

Cancel Vertical Printing (Select Horizontal Printing)

ASCII Code	FS K
Hex Code	28 4B
Dec Code	1C 75
Purpose	Prints all characters horizontally.
Comment	This command cancels vertical printing set with the FS J command. This is the default setting at power-up. The default is Normal (horizontal).

Set $n/60$ -inch Line Spacing

ASCII Code	ESC A n
Hex Code	1B 41 n
Dec Code	27 65 n
Purpose	Sets the line spacing to $n/60$ inch. Where: $0 < n \leq 85$
Comment	Changing the line spacing does not affect previous settings for vertical tabs or page length. Does not support 0 lpi. When $n = 0$, the printer prints according to the previous LPI. This command affects the front panel setting of "Select LPI."

Set $n/180$ -inch Line Spacing

ASCII Code	ESC 3 n
Hex Code	1B 33 n
Dec Code	27 51 n
Purpose	Sets the line spacing to $n/180$ inch. Where: $0 < n \leq 255$
Comment	Changing the line spacing does not affect previous settings for vertical tabs or page length. Does not support 0 lpi. When $n = 0$, the printer prints according to the previous lpi. This command affects the front panel setting of "Select LPI."

Set Absolute Horizontal Print Position

ASCII Code ESC \$ *n1 n2*

Hex Code 1B 24 *n1 n2*

Dec Code 27 36 *n1 n2*

Purpose Moves the horizontal print position to the position specified by the following formula:

Horizontal position = $n1 + (n2 * 256) + \text{left margin}$.

Where:

$0 \leq n1 \leq 127$

$0 \leq n2 \leq 255$

The unit setting for this command is 1/60 inch.

Comment The printer ignores this command if the specified position is to the right of the right margin.

Set Bottom Margin

ASCII Code ESC N *n*

Hex Code 1B 4E *n*

Dec Code 27 78 *n*

Purpose Sets the bottom margin on continuous paper to *n* lines (in the current line spacing) from the top-of-form position on the next page.

Where:

$1 \leq n \leq 127$

$0 < n * (\text{current line spacing}) < \text{page length}$

Comment This was formerly called the "Set skip-over-perforation" command.

This command affects the front panel setting of "Bottom Margin."

The default depends on the power-up configuration.

Cancel Bottom Margin

ASCII Code ESC O

Hex Code 1B 4F

Dec Code 27 79

Purpose Cancels the bottom margin settings.

Comment This was formerly called the "Cancel skip-over-perforation" command.

This command affects the front panel setting of "Bottom Margin."

Set DBCS Character Half Width

ASCII Code	FS SI
Hex Code	28 0F
Dec Code	1C 15
Purpose	Prints DBCS characters that follow at about half their normal width, and SBCS characters maintain their normal width.
Comment	Use the FS DC2 command to cancel half-width DBCS character printing. This command resets subscript/ superscript printing set by the FS r command. The default is Normal (non half-width) printing.

Cancel DBCS Character Half Width and Super/Subscript Printing

ASCII Code	FS DC2
Hex Code	28 12
Dec Code	1C 18
Purpose	This command cancels the FS SI (half-width DBCS character) and FS r (set super/subscript printing) commands.
Comment	The default is Normal (non half-width and non-super/subscript) printing.

Set Horizontal Tabs

ASCII Code	ESC D $n_1 n_2 \dots n_k$ NUL
Hex Code	1B 44 $n_1 n_2 \dots n_k$ 00
Dec Code	27 68 $n_1 n_2 \dots n_k$ 00
Purpose	Sets horizontal tab positions (in the current character pitch) at the columns specified by n_1 to n_k as measured from the left-margin position. The values for n must be in ascending order; a value of n less than the previous n ends tab setting (like the NUL code). Where: $0 \leq k \leq 32$ $1 \leq n \leq 255$ $n_k > n_{k-1}$
Comment	Changing the character pitch does not affect current tab settings. Send an ESC D NUL command to cancel all tab settings. The tab settings move to match any movement in the left margin.

A maximum of 32 horizontal tabs can be set.

The printer does not move the print position to any tabs beyond the right-margin position. However, all tab settings are stored in the printer's memory; if you move the right margin, you can access previously ignored tabs.

The printer calculates tab positions based on 10 cpi if proportional spacing is selected with the ESC p command.

The default is every eight characters.

Set Intercharacter Space

ASCII Code ESC SP n

Hex Code 1B 20 n

Dec Code 27 32 n

Purpose Increases the space between characters; the unit is according to the current density.

Where:

$0 \leq n \leq 127$

Comment The extra space set with this command doubles during double-width mode.

Set Intercharacter Spacing of DBCS Character (Hangul Extension)

ASCII Code FS S $n_1 n_2$

Hex Code 28 53 $n_1 n_2$

Dec Code 1C 83 $n_1 n_2$

Purpose Sets intercharacter space to the left and right of the DBCS character.

n_1 Specifies the space to the left of the printed character.

n_2 Specifies the space to the right of the printed character.

The dot size of n_1 and n_2 is 1/180 inch.

Where:

$0 < n_1 < 127$

$0 < n_2 < 127$

Comment A DBCS character with a half-width feature set by the FS SI command is treated as an SBCS character.

This command also affects an SBCS character if the character is aligned with DBCS by the FS U command.

If the SBCS character is aligned with the DBCS character, the intercharacter space of the SBCS character is half of n_1 and n_2 .

This command affects the front panel setting of "DBCS CPI."

The default is $n_1 = 0$, $n_2 = 3$.

Set Intercharacter Spacing Of SBCS Character (Hangul Extension)

ASCII Code FS T $n_1 n_2$

Hex Code 28 54 $n_1 n_2$

Dec Code 1C 84 $n_1 n_2$

Purpose Sets intercharacter space to the left and right of the SBCS character.

n_1 Specifies the space to the left of the printed character in 1/180 of an inch.

n_2 Specifies the space to the right of the printed character in 1/180 of an inch.

The units of n_1 and n_2 are 1/180 inch.

Where:

$0 < n_1 < 127$

$0 < n_2 < 127$

Comment A DBCS character with a half-width feature set by the FS SI command is treated as an SBCS character.

This command only affects SBCS characters when the FS V command is set.

The default is $n_1 = 0$, $n_2 = 2$.

Set Left Margin

ASCII Code ESC I n

Hex Code 1B 6C n

Dec Code 27 108 n

Purpose Sets the left margin to n columns in the current character pitch, as measured from the left-most printable column.

Where:

$1 \leq n \leq 255$

$0 < \text{left margin} < \text{right margin}$

Comment In DBCS mode, the character pitch is according to the width of the DBCS character.

This command affects the front panel setting of "Left Margin."

The default depends on the power-up configuration.

Set Page Length In Inches

ASCII Code ESC C NUL *n*

Hex Code 1B 43 00 *n*

Dec Code 27 67 0 *n*

Purpose Sets the page length to *n* inches.

This command sets the page length in 1-inch increments only.

Sets the page length before paper is loaded or when the print position is at the top-of-form position. Otherwise, the current print position becomes the top-of-form position.

Where:

$1 \leq n \leq 22$

Comment Setting the page length cancels the bottom margin setting.

This command affects the front panel setting of "Abs. Length In."

Set Page Length In Lines

ASCII Code ESC C *n*

Hex Code 1B 43 *n*

Dec Code 27 67 *n*

Purpose Sets the page length to *n* lines in the current line spacing.

Sets the page length before paper is loaded or when the print position is at the top-of-form position. Otherwise the current print position becomes the top-of-form position.

Where:

$1 \leq n \leq 127$

$0 < n * (\text{current line spacing}) \leq 22 \text{ inches}$

Comment Setting the page length cancels the bottom margin setting.

Changing the line spacing does not affect the current page-length setting.

This command affects front panel setting of "Funct. Of Lines."

Set Relative Horizontal Print Position

ASCII Code ESC \ *n1 n2*

Hex Code 1B 5C *n1 n2*

Dec Code 27 92 *n1 n2*

Purpose Moves the horizontal print position left or right from the current position.

For right movement: horizontal position = $n2 * 256 + n1$.

For left movement: horizontal position = $65536 - (n2 * 256 + n1)$.

Where:

$0 \leq n1 \leq 127$

$0 \leq n2 \leq 255$

Comment The printer ignores this command if the command would move the print position outside the printing area.

The default defined unit for this command is according to the current density: 1/120 inch for Near LQ and 1/180 inch for LQ, Normal, Hi-Speed, Super Hi-Speed, and Ultra Hi-Speed.

Set Right Margin

ASCII Code ESC Q *n*

Hex Code 1B 51 *n*

Dec Code 27 81 *n*

Purpose Sets the right margin to *n* columns in the current character pitch, as measured from the left-most printable column.

Where:

$1 \leq n \leq 255$

left margin < (current pitch) * *n* < printable area width

Comment In DBCS mode, the right margin will be set according to the width of the DBCS character.

This command affects the front panel setting of "Right Margin."

The default depends on the power-up configuration.

Set Vertical Tab Channels

ASCII Code ESC / m

Hex Code 1B 2F m

Dec Code 27 47 m

Purpose The value for m specifies the number of the tab sets being changed; these sets of tabs are called vertical formatting unit (VFU) channels.

Where:

$0 \leq m \leq 7$

Comment You must use this command to select a tab set (VFU channel) other than set 0; the VT (tab vertically) command then uses the settings for the selected channel.

You can select from eight sets of tabs (VFU channels).

Set Vertical Tabs

ASCII Code ESC B $n_1 n_2 \dots n_k$ NUL

Hex Code 1B 42 $n_1 n_2 \dots n_k$ 00

Dec Code 27 66 $n_1 n_2 \dots n_k$ 0

Purpose Sets vertical tab positions (in the current line spacing) at the lines specified by n_1 to n_k , as measured from the top-margin position.

The values for n must be in ascending order; a value of n less than the previous n ends tab setting (just like the NUL code).

Where:

$0 \leq k \leq 16$

$1 \leq n \leq 255$

$n_k > n_{k-1}$

Comment Changing the line spacing does not affect previous tab settings.

The tab settings move to match any subsequent movement in the top-margin position.

Send an ESC B NUL command to cancel all tab settings.

A maximum of 16 vertical tabs can be set.

The printer stores all tab settings, even if outside the printing area; if you increase the page length to include previously set tabs, you can move to those positions with the VT (tab vertically) command.

Sending the ESC B command clears any previous tab settings.

Set Vertical Tabs In VFU Channels

ASCII Code ESC b *m* *n*₁ ... *n*_{*k*} NUL

Hex Code 1B 62 *m* *n*₁ ... *n*_{*k*} 00

Dec Code 27 98 *m* *n*₁ ... *n*_{*k*} 0

Purpose Sets vertical tab positions at the lines specified by *n*₁ to *n*_{*k*} (in the current line spacing) in tab set *m*, as measured from the top-of-form position.

The value for *m* specifies the number of the tab sets being changed; these sets of tabs are called vertical formatting unit (VFU) channels.

The values for *n* must be in ascending order; a value of *n* less than the previous *n* ends tab setting (just like the NUL code).

Where:

$0 \leq m \leq 7$

$1 \leq n \leq 255$

$n_k > n_{k-1}$

$1 \leq k \leq 16$

Comment Up to eight sets of tabs can be set.

Send the ESC / command to select a VFU channel other than channel 0; the VT (tab vertically) command then uses the settings for the selected channel.

Changing the line spacing does not affect previous settings for vertical tabs.

Sending the ESC b command clears any previous tab settings in that tab set.

Send an ESC b *m* NUL command to cancel all tab settings in the tab set *m*.

A maximum of 16 vertical tabs can be set in each VFU channel.

The printer stores all tab settings, even if outside the printing area; if you increase the page length to include previously set tabs, you can move to those positions with the VT (tab vertically) command.

Tab Horizontally

ASCII Code HT

Hex Code 09

Dec Code 09

Purpose Moves the horizontal print position to the next tab to the right of the current print position.

Comment The printer ignores this command if no tab is set to the right of the current position or if the next tab is to the right of the right margin.

Character scoring (underline, overscore, and strike through) is not printed between the current print position and the next tab when this command is sent.

In DBCS mode, the command takes effect in double byte character setting.

Tab Vertically

ASCII Code VT

Hex Code 0B

Dec Code 11

Purpose Moves the vertical print position to the next vertical below the current print position.

Moves the horizontal print position to the left-margin position.

Comment The printer advances to the top-margin position of the following page if the next tab is below the bottom-margin position or if no tab is set below the current position.

The VT command functions the same as a CR command (moves the horizontal print position to the left-margin position) if all tabs have been cancelled with the ESC B NUL command.

The VT command functions the same as an LF command (advances one line in the current line spacing and moves the horizontal print position to the left-margin position) if no tabs have been set since the printer was turned on or was reset with the ESC@ command.

The VT command functions the same as an FF command (advances to the top-margin position on the next page) if some tabs have been set, but no tab is set between the current print position and the bottom-margin position.

This command cancels double-width printing set with the SO, ESC SO, or FS SO commands.

Turn Auto-wrap Around On/Off

ASCII Code ESC d *n*

Hex Code 1B 64 *n*

Dec Code 27 100 *n*

Purpose Turns Auto-wrap Around on/off according to the following values:

n = 0 Turn off Auto-wrap Around. The characters beyond right margin will be cut.

n = 1 Turn on Auto-wrap Around. The characters beyond right margin will be printed on the next line.

Where:

n = 0, 1

Turn Double-Height Printing On/Off

ASCII Code ESC w *n*

Hex Code 1B 77 *n*

Dec Code 27 119 *n*

Purpose Turns on/off double-height printing of all characters, as measured from the current baseline:

n = 1 or 49 Turns on double-height

n = 0 or 48 Turns off double-height

Where:

n = 0, 1, 48, 49

Comment No change for line spacing.

This command only takes effect in SBCS mode.

The default is Normal (non double-height) printing.

Turn Double-Width, Double-Height Printing On/Off

ASCII Code FS W *n*

Hex Code 28 57 *n*

Dec Code 1C 87 *n*

Purpose Turns on/off double-width, double height printing of all characters, spaces, and intercharacter spacing (set with the FS S or FS T commands) on the same line as this command, as follows:

n = 0 or 48 Turns off double-width double-height

n = 1 or 49 Turns on double-width double-height

Where:

n = 0, 1, 48, 49

Comment The baseline of the line including double-width, double-height characters moves down 24/180 inch, and the line spacing also increases 24/180 inch.

The default is Normal (non double-width double-height) printing.

Turn Double-Width Printing On/Off

ASCII Code ESC W *n*

Hex Code 1B 57 *n*

Dec Code 27 87 *n*

Purpose Turns on/off double-width printing of all characters, spaces, and intercharacter spacing (set with the ESC SP command) following this command as follows:

n = 1 or 49 Turns on double-width

n = 0 or 48 Turns off double-width

Comment This command works under both ASCII and Hangul modes.

The default is Normal (non double-width) printing.

Turn Extending Table Character On/Off

ASCII Code FS *v n*

Hex Code 1C 76 *n*

Dec Code 28 118 *n*

Purpose Turns on/off extending table characters, as follows:

n = 0 or 48 Cancels extending table characters

n = 1 or 49 Selects extending table characters

Where:

n = 0, 1, 48, 49

Comment This command extends the table characters so they touch in both horizontal and vertical directions.

The limitation of extension is ½ inch.

Our printer could extend the table characters in the range of A6A1H to A6E4H in the Hangul Complete font.

The default is Table Character not extended.

Turn On/Off OCRB Selection

ASCII Code ASSC 0 *z n*

Hex Code ASSC 30 7A *n*

Dec Code ASSC 48 122 *n*

Purpose Turns on/off OCRB selection as follows:

n = 0 or 48 Turns off OCRB selection

n = 1 or 49 Turns on OCRB selection

Where:

n = 0, 1, 48, 49

Comment When OCRB selection is turned on, the OCRB character can be printed out.

This command affects the front panel setting of "OCRB Selection."

This command works only in DBCS mode.

The default is *n* = 0.

Turn Proportional Mode On/Off

ASCII Code	ESC p <i>n</i>
Hex Code	1B 70 <i>n</i>
Dec Code	27 112 <i>n</i>
Purpose	<p>Selects either proportional or fixed character spacing according to the following values:</p> <p><i>n</i> = 0 or 48 Returns to current fixed character pitch.</p> <p><i>n</i> = 1 or 49 Selects proportional spacing.</p>
Comment	<p>Changes made to the fixed-pitch setting with the ESC P, ESC M, or ESC g commands during proportional mode take effect when the printer exits proportional mode.</p> <p>Characters from 0x80 to 0xFE cannot be printed in this mode</p> <p>This command affects "Prop. Spacing" on the front panel.</p> <p>This command only affects the character printing in ASCII mode.</p>

Turn Underline On/Off

ASCII Code	ESC - <i>n</i>
Hex Code	1B 2D <i>n</i>
Dec Code	27 45 <i>n</i>
Purpose	<p>Turns on/off printing of a line below all characters and spaces following the command:</p> <p><i>n</i> = 0 or 48 Turns underline off</p> <p><i>n</i> = 1 or 49 Turns underline on</p> <p>Where:</p> <p><i>n</i> = 0, 1, 48, 49</p>
Comment	<p>The underline does not print across the horizontal space with the following commands: ESC \$, ESC \ (when the print position is moved to the left), and HT.</p> <p>Graphics characters are not underlined.</p> <p>This command does not change line spacing.</p> <p>The default is Normal (non-underlined) style.</p>

Turn Underline On/Off (Hangul Extension)

ASCII Code FS - *n*

Hex Code 1C 2D *n*

Dec Code 28 45 *n*

Purpose Turns on/off printing of a line below all characters and spaces following the command:

n = 0 or 48 Turns underline off

n = 1 or 49 Prints one dot underline

n = 2 or 50 Prints two dot underline

Where:

n = 0, 1, 48, 49

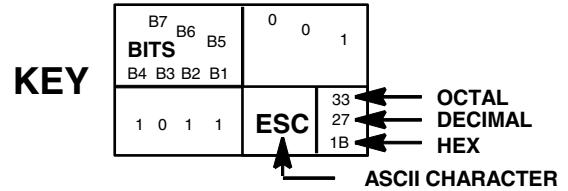
Comment If the character is in vertical printing mode, the line prints over the character and becomes overscored.

Underline and overscore each increase 4/180 inch line spacing.

The default is Normal (non-underlined) style.

A

Standard ASCII Character Set



BITS B7 B6 B5 B4 B3 B2 B1	ROW	COLUMN		0		1		2		3		4		5		6		7	
		0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
0 0 0 0	0	NUL	0 0	DLE	20 16 10	SP	40 32 20	0	60 48 30	@	100 64 40	P	120 80 50	,	140 96 60	p	160 112 70		
0 0 0 1	1	SOH	1 1 1	DC1 (XON)	21 17 11	!	41 33 21	1	61 49 31	A	101 65 41	Q	121 81 51	a	141 97 61	q	161 113 71		
0 0 1 0	2	STX	2 2 2	DC2	22 18 12	"	42 34 22	2	62 50 32	B	102 66 42	R	122 82 52	b	142 98 62	r	162 114 72		
0 0 1 1	3	ETX	3 3 3	DC3 (XOFF)	23 19 13	#	43 35 23	3	63 51 33	C	103 67 43	S	123 83 53	c	143 99 63	s	163 115 73		
0 1 0 0	4	EOT	4 4 4	DC4	24 20 14	\$	44 36 24	4	64 52 34	D	104 68 44	T	124 84 54	d	144 100 64	t	164 116 74		
0 1 0 1	5	ENQ	5 5 5	NAK	25 21 15	%	45 37 25	5	65 53 35	E	105 69 45	U	125 85 55	e	145 101 65	u	165 117 75		
0 1 1 0	6	ACK	6 6 6	SYN	26 22 16	&	46 38 26	6	66 54 36	F	106 70 46	V	126 86 56	f	146 102 66	v	166 118 76		
0 1 1 1	7	BEL	7 7 7	ETB	27 23 17	'	47 39 27	7	67 55 37	G	107 71 47	W	127 87 57	g	147 103 67	w	167 119 77		
1 0 0 0	8	BS	10 8 8	CAN	30 24 18	(	50 40 28	8	70 56 38	H	110 72 48	X	130 88 58	h	150 104 68	x	170 120 78		
1 0 0 1	9	HT	11 9 9	EM	31 25 19	)	51 41 29	9	71 57 39	I	111 73 49	Y	131 89 59	i	151 105 69	y	171 121 79		
1 0 1 0	10	LF	12 10 0A	SUB	32 26 1A	*	52 42 2A	:	72 58 3A	J	112 74 4A	Z	132 90 5A	j	152 106 6A	z	172 122 7A		
1 0 1 1	11	VT	13 11 0B	ESC	33 27 1B	+	53 43 2B	;	73 59 3B	K	113 75 4B	[	133 91 5B	k	153 107 6B	{	173 123 7B		
1 1 0 0	12	FF	14 12 0C	FS	34 28 1C	,	54 44 2C	<	74 60 3C	L	114 76 4C	\	134 92 5C	l	154 108 6C	|	174 124 7C		
1 1 0 1	13	CR	15 13 0D	GS	35 29 1D	-	55 45 2D	=	75 61 3D	M	115 77 4D	]	135 93 5D	m	155 109 6D	}	175 125 7D		
1 1 1 0	14	SO	16 14 0E	RS	36 30 1E	.	56 46 2E	>	76 62 3E	N	116 78 4E	^	136 94 5E	n	156 110 6E	~	176 126 7E		
1 1 1 1	15	SI	17 15 0F	US	37 31 1F	/	57 47 2F	?	77 63 3F	O	117 79 4F	_	137 95 5F	o	157 111 6F	DEL	177 127 7F		

	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 2 3 4 5 6 7 8 9 A B C D E F 0 1 2 3 4 5 6 7 8 9 A B C D E F
AA-A0 AA-C0 AA-E0	あ あ い い う う え え お お か が き ぎ く く け げ こ ご さ ざ し じ す ず せ ぜ そ ぞ た だ ぢ ぢ つ つ づ づ て て と ど な に ぬ ね の は ば び ひ び ぶ ぶ へ べ ほ ぼ ま み む め も や や ゆ ゆ よ よ り り る る れ ろ わ わ ろ ろ を を ん
AB-A0 AB-C0 AB-E0	ア ア イ イ ウ ウ エ エ オ オ カ ガ キ ギ ク グ ケ ケ コ コ サ ザ シ シ ス ス ズ ズ セ セ ソ ソ タ ダ チヂヂ ツ ツ ヅ ヅ テ テ ト ト ナ ニ ネ ノ ハ バ バ ヒ ビ ビ フ フ プ プ ヘ ペ ペ ホ ホ マ マ ミ ム メ モ ヤ ヤ ユ ユ ヨ ヨ ヲ ヲ ラ リ ル レ ロ ワ ワ キ エ ヲ ン ヴ カ ケ
AC-A0 AC-C0 AC-E0	А Б В Г Д Е Ё Ж З И Й К Л М Н О П Р С Т У Ф Х Ц Ч Ш Щ Ъ Ы Ь Э Ю Я а б в г д е ё ж з и й к л м н о п р с т у ф х ц ч ш щ ъ ы ь э ю я
AD-A0 AD-C0 AD-E0	
AE-A0 AE-C0 AE-E0	
AF-A0 AF-C0 AF-E0	

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0	1	2	3	4	5	6	7	8	9											
B0-A0 B0-C0 B0-E0	가 갓 결	간	개	겐	겔	거	걱	건	건	결	겔	겔	겔	겔	겔	겔	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓	갓											
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B2-A0 B2-C0 B2-E0	괘 괘 괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘					
B3-A0 B3-C0 B3-E0	괘 괘 괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘			
B4-A0 B4-C0 B4-E0	괘 괘 괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘		
B5-A0 B5-C0 B5-E0	괘 괘 괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	
B6-A0 B6-C0 B6-E0	괘 괘 괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	
B7-A0 B7-C0 B7-E0	괘 괘 괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	
B8-A0 B8-C0 B8-E0	괘 괘 괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	
B9-A0 B9-C0 B9-E0	괘 괘 괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘	괘

	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	0 1 2 3 4 5 6 7 8 9 A B C D E F 0 1 2 3 4 5 6 7 8 9 A B C D E F
BA-A0 BA-C0 BA-E0	병 벳 베 뵤 붕 와 반 빌 뵤
BB-A0 BB-C0 BB-E0	뵤 뵤
BC-A0 BC-C0 BC-E0	샷 샷
BD-A0 BD-C0 BD-E0	슉 슉
BE-A0 BE-C0 BE-E0	췌 췌
BF-A0 BF-C0 BF-E0	에 ऐ 엔 엘 엠 엠티 엠 오 옥 은 율 엠
C0-A0 C0-C0 C0-E0	웍 웍
C1-A0 C1-C0 C1-E0	점 집 짓 정 짓 제 긔 좇
C2-A0 C2-C0 C2-E0	징 깃 길 뺌
C3-A0 C3-C0 C3-E0	찰 창 찰 채 츄

	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
	0 1 2 3 4 5 6 7 8 9 A B C D E F 0 1 2 3 4 5 6 7 8 9 A B C D E F
CA-A0 CA-C0 CA-E0	伽佳假價加可呵哥嘉嫁家暇架枷柯歌珂痂椽苛茄街袈訶賈跼軻迦駕刻却 各恪慄殼疔脚覺角閤侃刊壘奸姦干幹懇揀杆東桿澗痠看礪稈竿簡肝艮艱諫 間匜喝曷渴碼竭葛褐竭鞞勤坎堪嵌感憾戡敢柑橄減甘疖監瞰紺郞鑑鑿龕
CB-A0 CB-C0 CB-E0	匣岬甲胛鉀剛剛剛剛姜岡崗康強彊慷江薑疆糠絳網羌腔缸薑襁講鋼降鑢介 价個凱埧愷愷慨改概漑芥皆蓋箇芥蓋豈鎧開喀客坑更梗羹醱倨去居巨拒据 據舉渠炬祛距踞車遽鉅鋸乾件健巾建愆榷蹇瘈瘼躑蹇餽乞傑杰桀儉劍劍檢
CC-A0 CC-C0 CC-E0	險鈴黔劫怯怯怯怯怯怯憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇憇 缺訣兼謙筭謙鉗謙京徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑徑 瓊瓊痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠痠
CD-A0 CD-C0 CD-E0	榮溪界癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸癸 痲臬率稿羔考股膏苦苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾苾 昆梱棍滾琨袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞袞
CE-A0 CE-C0 CE-E0	科菓誇課跨過鍋顛廓榔薑郭申冠官寬慣棺款灌瑄瓘管罐菅觀貫關館刮忽 括适优光匡擴廣曠洸吹狂珣筐胱鑛卦掛罰乖傀塊壞怪愧拐槐魁宏紘肱轟交 橋咬喬嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌嬌
CF-A0 CF-C0 CF-E0	區口句咎嘔坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵坵 舅舊苟衢謳購軀速邱鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞鈞 宮弓穹窮芎窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮窮
D0-A0 D0-C0 D0-E0	鬼龜叫圭奎揆規珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪珪 隙僅劬勤慙斤根槿瑾筋芹苳觀謹近鑷契今矜擒吟檣琴禁禽岑衾矜襟金錦劬 及急扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱扱
D1-A0 D1-C0 D1-E0	蒼期杞棋棄機欺氣汽沂淇玘琦琪琪琪琪琪琪琪琪琪琪琪琪琪琪琪琪琪琪 記譏豈起鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗鎗 邏那樂洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛洛
D2-A0 D2-C0 D2-E0	納臘蠟衲囊娘廊朗浪狼郎乃來內奈耐耐耐耐耐耐耐耐耐耐耐耐耐耐耐耐耐 弩怒擄櫓爐瑤盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧盧 腦路雷尿墨屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢屢
D3-A0 D3-C0 D3-E0	丹宣但單團壇豕斷旦檀段端端端端端端端端端端端端端端端端端端端端端端 湛潭澹痰聘膽尊單談譚談談談談談談談談談談談談談談談談談談談談談談談 位帶待戴擲玳臺袋貸隊黨宅德惠倒刀到圖堵塗導屠島鳴度徒悼挑掉搗桃

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D4-A0 D4-C0 D4-E0	棹權洶渡滔濤齋盜睹禱稻荀觀賭跳蹈逃途道都鍍陶韜毒瀆牘犢獨督禿篤 蠡讀墩惇敦吨嗽沌焯焯豚頓芴突仝冬凍動同懂東桐棟洞潼疼腫童胴董銅兜 斗杜抖痘竇豈讀豆逗頭屯臀芴遁逐鈍得嶝橙燈登等藤騰鄧騰喇懶拏癩羅
D5-A0 D5-C0 D5-E0	蘿螺裸邏樂洛烙珞絡落諾酪駱丹亂卵欄樂瀾爛蘭鸞刺辣嵐擊攬攬濫籃纜 藍檻覽拉臘蠟廊朗浪琅琅瑯螂郎來唻徠萊冷掠略亮兩兩涼梁樑糧梁糧良諒 輛量侶僱勵呂慮慮戾旅欄濾礪藜蠣閭驢麗麗黎力曆歷瀝礫礫震憐戀學漣
D6-A0 D6-C0 D6-E0	煉璉練聯蓮聳連鍊冽冽劣冽烈裂廉斂殮簾獵令伶囹寧岑嶺伶玲苓鈴翎 聆逞鈴零靈領齡例禮醴隸勞怒撈擄櫓潑瀟爐盧老蘆虜路輅露魯鷲鹵碌碌 綠萊錄鹿麓論壘弄隴瀧瓏籠豐偏灑半磊賂賈頰雷了僚寮廖料燎療瞭聊蓼
D7-A0 D7-C0 D7-E0	遼鬧龍墨婁屢樓淚漏瘻累縷蔓樓鑲陋劉旒柳榴流溜溜琉瑠留瘡硫謬類六 戮陸倫倫倫淪綸輪律慄栗率隆勒肋凜凌楞稜綾菱陵俚利厘吏喇履俐李梨漚 犁理理璃異痢麗羅羸莉裏裡里釐離鯉吝潏潏璘蘭蹕隣隣鱗麟林淋琳臨霖粒
D8-A0 D8-C0 D8-E0	立笠粒摩瑪痲碼磨馬廢麻寔幕漠膜莫邈万已婉轡轡慢挽晚曼滿漫灣瞞萬 蔓蠻輓饒饒忒沫沫沫某機鞅亡妄忘忙望網罔芒芒莽鞴邛埋妹媒寐味枚梅每 煤罵買賣邁魅脈貊陌蕎麥孟氓猛盲盟萌羸覓免冕勉棉沔眄眠綿緬面麵滅
D9-A0 D9-C0 D9-E0	蔑冥名命明暝桼溟皿暝茗寔螟酪銘鳴扶侮冒募姆帽慕摸摹暮某模母毛牟 牡瑁眸矛耗茅謀謨貌木沐牧目睦穆鴛歿沒夢膝蒙卯墓妙廟描昂杏渺猫妙 苗錨務巫憐懋戊拇撫无琳武母無弑畝繆舞茂蕪誣貿霧鷓墨默們勿吻問文
DA-A0 DA-C0 DA-E0	汶素紋聞蚊門雯勿物物味媚尾媚彌微未棍棍涸涸涸眉米美薇謎迷摩微岷悶 愨憫敏旻旻民泯玃玃緝閔密蜜證剝博拍搏撲朴樸珀璞箔柏縛膊舶薄迫雹 駁伴半反叛拌搬攀斑槃泮潘班畔癩盤盼磬磬磬絆般蟠返頒飯勃拔撥渤潑
DB-A0 DB-C0 DB-E0	發跋跋鉢髮髮做傍坊妨尅幫彷彿放方旁防枋榜滂磅紡防勝妨芳莠蚌訪誘 邦防龐倍俳北培俳拜排杯滂焙盃背胚裴袞陪陪輩配陪伯伯帛柏栢白百魄幡 樊煩幡番磻繁蕃藩翻伐筏罰闕凡帆梵汎汎汎犯範范法珞僻勞壁擘擘壁癖
DC-A0 DC-C0 DC-E0	碧藥闕霹便下弁變辨辯邊別瞥驚驚丙併兵屏并啊勇柄棟炳瓶病秉竝駢餅 駢保堡報寶普步湫涖潛瑤甫苦補襖譜輔伏僕匍卜必復服福腹茯荀複覆輻輻 馥馥本專倖奉封峯峰捧棒烽燧瑋瑋蓬蜂逢鋒鳳不付俯傅剖副否咐埠夫婦
DD-A0 DD-C0 DD-E0	孚孵富府復扶敷斧浮溥父符簿岳腐腑膚紆芙苻訃負賦賄赴跌部釜阜附駙 鳧北分吩噴墳奔奮忿憤扮盼汾焚盆粉糞紛芬賁霧不佛弗佛拂崩朋棚棚棚鵬 丕備匕匪卑妃婢庇悲憊扉批斐枇樞樞樞樞樞樞樞樞樞樞樞樞樞樞樞樞樞樞樞樞樞

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DE-A0 DE-C0 DE-E0	脾臂菲蜚神誹譬費鄙非飛鼻嘖嬪彬斌檳殯浜濱溯杜玳貧賓類憑水聘騁乍 事些仕伺似使俟儉史司唆嗣四士奢娑寫寺射已師徒思捨斜斯柶查梭死沙泗 渣瀉獅砂社祀祠私篩紗絲肆舍莎蓑蛇娑詐詞謝賜赦薛邪飼駟驛削數朔素
DF-A0 DF-C0 DF-E0	傘刪山散汕珊產疝算蒜酸霰乞撒殺煞薩三參杉森滲艾蓼衫揷遊級颯上傷 像償商喪嘗孀尙峙常床庠廂想桑椹湘爽牀狀相祥箱翔裳觴詳象賞霜塞璽養 番塞稽索色牲生甥省筌豎壻嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼嶼
E0-A0 E0-C0 E0-E0	胥舒薯西薯逝鋤黍風夕爽席惜昔暫析汐浙渴石碩蓆釋錫仙僊先善嬋宜扇 散旋渲焗琬瑄璇璿癖禪線繕羨腺膳船蘇蟬詵跣選銑鏞饍鮮高屑楔泄洩漢舌 薛藝設說雪齧刻暹穢織蟾瞻閃陝攝涉雙葉城姓成性惺成星晟猩璠盛省箴
E1-A0 E1-C0 E1-E0	聖聲腥誠醒世勢歲洗稅笹細說黃召嘯塑宵小少巢所掃搔昭梳沼消溯瀟沼 燒麩疏疎瘵笑篠簫素紹蔬蕭蘇訴迨邈邵銷韶騷俗屬束凍粟纒謬贖速孫巽損 蓀遜隄率宋悚松淞訟誦送頌刷殺灑碎鎖衰釧修受嗽囚垂壽嫂守岫岫岫岫岫
E2-A0 E2-C0 E2-E0	戍手授搜收數樹殊水洙漱燧狩獸琇璵瘦睡秀穗豎粹綏綏繡羞脩茱蒐蓀藪 袖誰警輪遂蓬酬銖銹隋隍隨雖需須首髓鬚叔塾夙孰宿淑瀟熟瑒瑤肅菽巡徇 循徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇徇
E3-A0 E3-C0 E3-E0	嵩瑟膝蝨濕拾習褶襲丞乘僧勝升承昇繩蠅陞侍匙嘶始媼尸屎屍市弑侍施 是時柵柴猜矢示翅蒔著視試詩諡豕豕豕豕豕豕豕豕豕豕豕豕豕豕豕豕豕豕豕 仇信呻娠宸慎新晨燼申神紳腎臣莘薪蠶蜃訊身辛辰迅失室實悉審尋心沁
E4-A0 E4-C0 E4-E0	沈深潘甚芯謚什十拾雙氏亞俄兒啞娥峨我牙芽莪蛾衙訝阿雅餓鴉鵠聖岳 嶽幄惡愕握樂渥鄂鐳顛鰐齷安岸按晏案眼雁鞍顏鉞幹謁軋闕唵岩巖庵暗癌 菴閻壓押狎鴨仰央快昂殃殃鴛戾哀埃崖愛曖涯碍艾隘霏厄扼掖液溢腋額
E5-A0 E5-C0 E5-E0	櫻嬰鶯鸚也郇冶夜惹挪椰爺耶若野弱掠略約若葯蕝藥躍亮伴兩涼壤孃恙 揚攘敷暘梁楊樣洋漾場痒瘍禳穰糧糧羊良襄諒讓讓讓讓讓讓讓讓讓讓讓讓讓讓讓讓 魚語憶憶抑憶臆偃堰彥焉言診擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊擊
E6-A0 E6-C0 E6-E0	旅歎汝濾瑁礪礪礪與餘茹與譽閭餘驪麗黎亦力域役易曆歷疫釋譯轢逆驛嚙 壘妍娟宴年延憐戀捐挺撚椽沅沿涎涓淵演漣烟然煙煉燃燕璉研硯季筵緣練 續聯衍軟輦蓮連鉛鍊薦列劣咽悅涇烈熱裂說閱厭廉念捻染殮炎焰琰艷苒
E7-A0 E7-C0 E7-E0	簾閭髻鹽擘獵燁葉令囹笙寧嶺嶺影伶映映楹榮永泳漢穎潏瀟瀟瀟瀟瀟瀟瀟瀟瀟瀟 瑛瑩櫻盈穎櫻矜聆英詠迎鈴鑠零冀靈領又倪例刈叔曳汨滅猓睿穢芮藝藥禮 裔詣譽豫醴銳隸覓預五伍伍傲午吾吳鳴塢奧與娛寤悟惡悞赦昨晤梧污澳

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E8-A0 E8-C0 E8-E0	烏熬笑寔蜈誤齧黿屋沃獄玉鉦溫盥瘡穩繼蘊兀壅擁瓮瘵癰翁邕雍賽渦瓦 窩窪臥蛙蝸訛婉完宛椀惋玩琬碗緩斲脛腕莞腕阮頑曰往旺枉汪王倭娃 歪矮外崑巍猥畏了僚僂凹堯夭妖姚寥寮尿嶢拗搖撓擾料曜樂橈燎燿瑤療
E9-A0 E9-C0 E9-E0	窈窕蘇繞耀腰蓼螬要謠遙遼邀饒慾欲浴縛褥辱備冗勇埇埔容庸邁榕涌 湧浴浴榕用甬聳茸蓉踊鎔鑄龍于佑偶優又友右宇寓尤愚憂吁牛玕瑪孟祐禍 禹紆羽芋藕虞迂遇郵鈺隅雨尋助彘旭昱楛煜穢郁項云暈檣殞潑熾耘芸蓂
EA-A0 EA-C0 EA-E0	運隕雲韻蔚鬱亏熊雄元原員圓園垣媛嫵冤怨愿援沅涸浚源爰猿媛苑袁輓 遠阮院願駕月越鉞位偉僞危圍委威尉慰暍涓爲璋緯胃萎葦蕩蛄衛禕謂違韋 魏乳侑儒兪劉唯噲孺宥幼幽庾悠惟愈愉揄飲有杻柔柚柳楡檣油涓流游溜
EB-A0 EB-C0 EB-E0	濡猶猷琉瑜由留憲硫紐維輿黃裕誘諛論踰踟遊逾遠酉釉鑰類六堵戮毓肉 育陸倫允瀛尹崙淪潤瓊胤胤贊輪銳閏律慄栗率聿戎灑絨融隆垠恩愨殷閭銀隱 乙吟淫蔭陰音飲揖泣邑凝應膺鷹依倚儀宜意懿擬椅毅疑矣義羲惹蟻衣誼
EC-A0 EC-C0 EC-E0	議醫二以伊利吏夷姨履已弛彝怡易李梨泥爾珥理異痲痢移罹而耳肆苒萸 裏裡貽貳邇里離飴餌匿溺灑益翊翌翼諡人仁刀印吝咽因姻寅引忍湮燐磷綫 茵蘭蚶認隣勒勑鱗麟一佚佷壹日溢逸鎗駟任壬妊姪恁林淋稔臨莅貨入廿
ED-A0 ED-C0 ED-E0	立笠粒仍剩孕苻仔刺咨姊姿子字孜恣慈滋炙煮茲瓷疵磁紫者自茨蔗藉諸 資雌作勻嚼斫昨灼炸爵綽芍酌雀鵠孱棧殘潺盞岑暫潛箴簪蠶雜丈仗匠場牆 壯獎將帳庄張掌擘杖棹檣穢漿牆狀瘡璋章柱腸臟臧莊葬蔣薈藏裝臧醬長
EE-A0 EE-C0 EE-E0	障再哉在宰才材栽梓潏滓災絳裁財載齋齋爭爭諍錚佇低儲咀姐底抵杵楮 樗沮渚狙猪疽箸紆苧菴著藉詛貯躊這邸隄齟勳吊嫡寂滴敵滴狄炙的積笛籍 績翟荻謫賊赤跡躋迪迹適鎬佃佺傳全典前剪墳墳奠專展壓俊戰痊殿氍澗
EF-A0 EF-C0 EF-E0	煎瑛田甸畑癩荃箋箭篆纒詮輾轉鈿鈿錢鑄電顛顛顛錢切截折浙瘳竊節絕占 帖店漸点粘霑黏黏點接摺蝶丁井亭停偵呈延定幘庭廷征情挺政整旌晶最怔楨 檉正汀淀淨淨瀟滯烜玳玳町晴礎禛程穿精艇艇訂諄貞鄭商釘鉦鉦錠錠露靖
F0-A0 F0-C0 F0-E0	靜頂鼎制劑啼堤帝弟悌提梯濟祭第臍薺製諸蹄醒除際齋題齊俎兆凋助嘲 弔彫措操早晁曹曹朝條棗槽漕潮照燥爪瓌眺祖祚租稠窺粗糟組縵縵藻蚤詔 調趙躁造遭鈞阻雕烏族簇足鏃存尊卒拙猝侏宗從棕葱棕琮琮種終綜縱腫
F1-A0 F1-C0 F1-E0	踪踵鍾鐘佐坐左座挫罪主住侏做妹胄呪周噉奏宙州廚晝朱柱株注洲湊澗 炷珠疇籌紉紉網舟蛛註誅走躑轄週耐酒鑄駐竹粥俊僂准峻窩峻峻樽溲準滄 梭峻峻蠹遂遵鸞駿茁中仲衆重卽櫛楫汁茸增憎曾拯丞甌症繪蒸證贈之只

	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
	0 1 2 3 4 5 6 7 8 9 A B C D E F 0 1 2 3 4 5 6 7 8 9 A B C D E F
F2-A0 F2-C0 F2-E0	咫地址志持指摯支旨智枝枳止池沚漬知砥社祗紙肢脂至芝芷蜘蛛誌識贊趾 遲直植稷織職昏噀塵振措晉晉振榛珍津漆珍瓊璣珍盡眞噴奏縉縝臻蔭蔭 診脈軫辰進鎮陣陳震侄叱妊嫉軼極瓊疾秩望膾蛭質跌迭樹朕什執濼緝輯
F3-A0 F3-C0 F3-E0	錄集徵懲澄且佗借又嗟嗟差次此磋筍茶蹉車遮捉捺着窄錯鑿鯢撰濼燦璨 瓊窟窶纂粲縉讀贊鑽餐饌刺寮擦札紫僭參塹慘慙懺斬站諱識倉倡創唱娼廠 彰槍敵昌昶暢槍滄漲猖瘡窓腰艸蒼債琛窠窠彩採砦綵榮蔡采釵冊冊策
F4-A0 F4-C0 F4-E0	責淒妻悽處侷刺剔尺憾戚拓擲斥滌瘠脊蹙陟隻仟千喘天川擅泉淺玃穿舛 薦賤踐遷釧闌阡韃凸哲詰徹撤澈綴輟轍鐵僉尖沾添恬瞻簽籤詹詔堞妾帖捷 燂疊睫諜貼輒廳晴清聽菁請青鯖切剃替涕滯締締諸逮遞體初剿哨樵抄招梢
F5-A0 F5-C0 F5-E0	椒楚樵炒焦硝礁礎秒稍肖艸苕草蕪貂超酢醋醢促囑燭蠹蜀觸寸村村邨叢 塚龍恩德摠總聰蔥銑攝催崔最墜抽推椎楸樞湫皺秋芻菽諷趨迫鄒會醜錘錘 鎚難騶缺丑畜祝竺筑築縮蓄蹇蹇軸逐春椿椿璿出尤黜充忠沖蟲衝衷悴膝萃
F6-A0 F6-C0 F6-E0	贅取吹嘴娶就炊翠聚脆臭趣醉驟驚側仄厠側測層侈值嗜峙幟恥梔治淄熾 痔痲癢稚穉緇緇緻置致蚩輻雉馳齒則勅飭親七柒漆侵寢枕沈浸琛砧針鍼蟄秤 稱快他咤唾墮妥椅打拖朶惰舵陀馱駝倬卓啄坼度托拓擢暉柝濁濯琢瑋託
F7-A0 F7-C0 F7-E0	鐸吞嘆坦彈憚歎灘炭綻誕奪脫探眈眈貪塔搭榻榻宕帑湯糖蕩兌台太怠態殆 汰泰苔胎苔胎部廳宅擇澤撐摠兔吐土討慟桶洞痛筒統通堆槌腿腿退類儉套 妬投透闔惡特闔坡婆巴把播擺杷波派爬爬破罷芭跛頗判坂板版瓣販辦飯
F8-A0 F8-C0 F8-E0	阪八叭捌佩唄悖敗沛涓牌狽狽羈貝彭澎烹膨恆便偏扁片篇編翩遍鞭騙貶 坪平枰萍評吠斐幣廢弊弊弊肺蔽閉陸佈包匍匍匍咆哺圃布佈拋抱捕暴泡浦庖砲 胞脯苞葡蒲袍褒逋鋪飽飽幅暴曝瀑爆輻俵剽彪標杓標漂瓢粟表豹馳飄驟
F9-A0 F9-C0 F9-E0	品菓楓颯豐風馮彼披疲皮被避陔匹弼必泌玆畢疋筆苾秘乏逼下何厦夏厦 昞河瑕荷蝦賀遐霞蝦堅學虐諳鶴寒恨悍旱汗漢澣瀚罕翰閑閒限韓割轄函含 咸啣噉檻涵緘艦銜陷鹹合哈盒蛤閤閤陝亢伉姪婁巷恒抗抗杭桁沆港缸缸航
FA-A0 FA-C0 FA-E0	行降項亥偕咳咳奚孩害懈楷海漑蟹解該諧避駭骸効核倖幸杏苻行享嚮嚮 珣鄉嚮餉饗香噓墟虛許憲憶軒歇險驗奕孛赫革覘覘弦懸覘泫炫玄玃現眩 覘絃絢縣絃銜見賢鉉顯子穴血頁嫌俠協夾峽挾挾狹狹脅脇英缺頰亨兄刑型
FB-A0 FB-C0 FB-E0	形洞榮滢滢炯焚珩瑩荊螢衡迥邢簦馨兮慧惠慧嗜惠蹊醴鞋乎互呼壺壺好 帖弧戶扈昊皓毫浩溟湖滸滸濛濛灑灑灑灑灑灑灑灑灑灑灑灑灑灑灑灑灑灑 鎬護顯惑或酷婚昏混渾瑋魂忽惚笏哄弘汞泓洪烘紅虹缸鴻化和燁燁火畫

	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 2 3 4 5 6 7 8 9 A B C D E F 0 1 2 3 4 5 6 7 8 9 A B C D E F
FC-A0 FC-C0 FC-E0	禍禾花華話譚貨靴廓擴攪確礪穫丸喚奐宦幻患換歡皖恒煥煥環紈還蘿罼 活滑猾豁闊夙幌惶恍晃晃恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍恍 徊恢悔懷晦會檜淮漕灰猓繪膾茵蝮誨賄割獲竝橫鑽哮喘孝效數曉臬泮涪
FD-A0 FD-C0 FD-E0	爻肴酵驍候候厚后吼喉嗅候後朽煦瑯迥助勳勳坳塹焗熏燻薰訓暈蕘喧喧炫 萱卉喙毀彙徽揮暉輝諱輝磨休携休哇虧恤謔鸚兇凶匈洵胸黑昕欣斫痕吃屹 紇訖欠欽飲吸恰洽翕興僖熙喜噫齧姪娖希憲愜戲晞曦熙熈熨熨熨熨熨熨熨熨
FE-A0 FE-C0 FE-E0	
FF-A0 FF-C0 FF-E0	

C

Contact Information

Printronix Customer Support Center

IMPORTANT Please have the following information available prior to calling the Printronix Customer Support Center:

- Model number
- Serial number (located on the back of the printer)
- Installed options (i.e., interface and host type if applicable to the problem)
- Configuration printout:

Line Matrix Printer

Press PRT CONFIG on the control panel, then press Enter.

- Is the problem with a new install or an existing printer?
- Description of the problem (be specific)
- Good and bad samples that clearly show the problem (faxing of these samples may be required)

Americas (714) 368-2686

Europe, Middle East, and Africa (31) 24 6489 311

Asia Pacific (65) 6548 4114

<http://www.primtronix.com/support.aspx>

Printronix Supplies Department

Contact the Printronix Supplies Department for genuine Printronix supplies.

Americas (800) 733-1900

Europe, Middle East, and Africa (33) 1 46 25 1900

Asia Pacific (65) 6548 4116
or (65) 6548 4182

<http://www.primtronix.com/supplies-parts.aspx>

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