



6800 Series Printers  
Applications Manual  
Volume 3

Fonts and Character Sets



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# 1

## *Font Metrics*

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### Font Styles

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Tally line printers support multiple types of fonts that vary in print quality and print speed. The font types are as described below and detailed in the following table.

- Draft (a high-speed font)
  - Enhanced Font (EF)
  - Constant Density Font (CDF)
- Data Processing (DP - a fast font with improved readability)
  - Enhanced Font (EF)
  - Constant Density Font (CDF)
- Near Letter Quality (NLQ - best readability)
  - Gothic Enhanced Font
  - Courier Enhanced Font
- Optical Character recognition (OCR - machine readable fonts)
  - OCR-A
  - OCR-B

The Enhanced Font (EF) styles are similar to the fonts offered in the MT661/691. These fonts print with different dot matrices and DPIs, depending on the CPI of the font. The advantage of the Enhanced Fonts is that they maintain very good readability as the CPI increases (and the size of the character decreases), and offer a wider range of CPIs. The disadvantage of the Enhanced Fonts is that the speed at which they are printed changes as the CPI of the font changes. This leads to reduced throughput with high CPI fonts, and makes the printing of mixed text and graphics files slow down considerably as the shuttle speed changes and/or the printer is forced to make multiple sweeps to print a single line.

The Constant Density Font (CDF) styles solve the problem of reduced throughput with higher CPIs by printing a given font with the same DPI (hence "constant density") regardless of the CPI. This allows the printer to print at a constant shuttle speed and never have to make multiple sweeps to print a single line. The result is considerably better throughput, especially on files with mixed text and graphics. The disadvantage is somewhat reduced readability of the high CPI fonts.

The Near Letter Quality fonts (NLQ) can be considered to be Enhanced Fonts, since the dot matrices and the DPI vary with the CPI.

The two Optical Character Recognition fonts (OCR) are only defined for the case of 10 CPI and use the matrices and DPIs shown in the table below:

**Table 1. Font Metrics, 6800 Series**

	CPI	Print Density DPI [A(B)XC]	Dot Matrix [D(E)x(F+G+H)]
NLQ (Courier and Gothic)	10	90 (180)x96	8(15)x(9+3+4)
	12	90 (180)x96	6(11)x(9+3+4)
	13.3	90 (180)x96	6(11)x(9+3+4)
	15	120 (240)x96	5(9)x(9+3+4)
	16.7	120 (240)x96	5(9)x(9+3+4)
	17.1	120 (240)x96	5(9)x(9+3+4)
	20	120 (240)x96	5(9)x(9+3+4)
Data Processing (CDF)	10	60 (120)x72	5(9)x(7+2+3)
	12	60 (120)x72	4(7)x(7+2+3)
	13.3	60 (120)x72	4(7)x(7+2+3)
	15	60 (120)x72	3(5)x(7+2+3)
	17.1	60 (120)x72	3(5)x(7+2+3)
Enhanced DP	12	80 (240)x72	5(13)x(7+2+3)
	13.3	80 (240)x72	5(13)x(7+2+3)
	15	120 (240)x72	5(9)x(7+2+3)
	16.7	120 (240)x72	5(9)x(7+2+3)
	17.1	120 (240)x72	5(9)x(7+2+3)
	20	120 (240)x72	5(9)x(7+2+3)
Draft (CDF)	10	60 (120)x48	5(9)x(5+1+2)
	12	60 (120)x48	4(7)x(5+1+2)
	13.3	60 (120)x48	4(7)x(5+1+2)
	15	60 (120)x48	3(5)x(5+1+2)
	17.1	60 (120)x48	3(5)x(5+1+2)



**Table 1. Font Metrics, 6800 Series**

	<b>CPI</b>	<b>Print Density DPI [A(B)XC]</b>	<b>Dot Matrix [D(E)x(F+G+H)]</b>
Enhanced Draft	12	80 (240)x48	5(13)x(5+1+2)
	13.3	80 (240)x48	5(13)x(5+1+2)
	15	120 (240)x48	5(9)x(5+1+2)
	16.7	120 (240)x48	5(9)x(5+1+2)
	17.1	120 (240)x48	5(9)x(5+1+2)
	20	120 (240)x48	5(9)x(5+1+2)
Standard OCR-A	10	60 (120)x85	5(9)x(9+3+4)
Enhanced OCR-A	10	60 (120)x85	5(9)x(9+3+4)
High Density OCR-A	10	80 (240)x144	7(19)x(15+5+4)
OCR-B	10	90 (180)x144	8(19)x(13+5+6) <sup>a</sup>
A Maximum horizontal dot density B Horizontal dot placement resolution C Vertical dot density D Maximum dots per row E Horizontal positions F Maximum vertical dots for uppercase characters G Dots available for descenders H Dots available for ascenders <sup>a</sup> OCR-B numerics use two ascender rows			

## Character Height

Character height and vertical dot spacing is based upon units of 1/288 inch. Default 6 LPI uppercase character height is set at 24/288", or 1/12", for all font/CPI combinations. This height is measured from center of top dot to center of bottom dot. 12/288" has been allotted for ascenders (rows above the top of uppercase characters), and 11/288" has been allotted for descenders (rows below the bottom of uppercase characters). This gives the number of uppercase/ascender/descender rows listed in the table below.

The Uppercase character set is defined as the 63 ASCII characters beginning with Space (20 Hex) and ending with '^' (5E Hex), including all numerals and uppercase alphabetic characters. The Uppercase set uses no ascenders or descenders. The Lowercase character set, which includes the remaining ASCII characters (5F to 7F Hex), uses uppercase and descender rows. The Latin 1 and linedraw character sets use uppercase, ascender, and descender rows.

**Table 2. Character Height**

Font	Draft	DP	NLQ	OCR-A			OCR-B
				STD	ENH	HIGH	
Uppercase rows	5	7	9	9	9	15	13
Ascender rows	2	3	4	4	4	4	6
Descender rows	1	2	3	3	3	5	5
Total rows	8	12	16	16	16	24	24
Vertical DPI	48	72	96	85	96	144	144

### Height vs. LPI

Each font supports printing at 1.5, 2, 3, 4, 5, 6, 8, 9, and 10 Lines per Inch (LPI). Variable LPI is accomplished by changing:

- a. the inter-line gap (number of dot rows skipped between successive lines);
- b. the character's vertical size.

Character vertical size may be increased by repeating rows. In most emulations, each character dot row is printed:

- 4 times at 1.5 LPI;
- 3 times at 2 LPI;
- 2 times at 3, 4, and 5 LPI;
- once at 6, 8, 9, and 10 LPI.

Character vertical size may also be adjusted by changing the vertical DPI from the normal values given in Figure 28. For example, at 8 LPI, descenders touch the top of upper case characters if normal row spacing is used, so a "compressed character" option is provided to give a more proportional inter-line gap. For example, 8 LPI DP lower case characters use 9 rows; at the normal 72 DPI spacing, there is no inter-line gap, each line touching the previous. With the "compressed character" option, the rows are spaced at 96 DPI, resulting in a 3-dot (3/96") inter-line gap.

## Character Width

Character width and horizontal dot spacing is based upon units of 1/240 inch or 1/180 inch, with the actual dot spacing varying according to the font style and matrix used. Character width is set to about 85% of the total character cell space, with the remaining 15% for inter-character gap. OCRB character width is set at about 70% of cell space, to allow a 30% inter-character gap for machine readability.

**Table 3. Character Width, 6800 Series**

	<b>10 CPI Matrix</b>	<b>12 CPI Matrix</b>	<b>15 CPI Matrix</b>
<b>Dot Resolution/Spacing/Dot Density</b>			
Draft/DP CDF	120 / 2 / 60	120 / 2 / 60	120 / 2 / 60
Draft/DP Enhanced	120 / 2 / 60	240 / 3 / 80	240 / 2 / 120
NLQ	180 / 2 / 90	180 / 2 / 90	240 / 2 / 120
OCR-A Standard/Enhanced	120 / 2 / 60	-	-
OCR-A High Density	240 / 3 / 80	-	-
OCR-B	180 / 2 / 90	-	-
<b>Cell Columns/Char Columns/Max Dots</b>			
Draft/DP CDF	11 / 9 / 5	9 / 7 / 4	7 / 5 / 3
Draft/DP Enhanced	11 / 9 / 5	16 / 13 / 5	11 / 9 / 5
NLQ	17 / 15 / 8	13 / 11 / 6	11 / 9 / 5
OCR-A Standard/Enhanced	11 / 9 / 5	-	-
OCR-A High Density	22 / 19 / 7	-	-
OCR-B	17 / 15 / 8	-	-

## Width vs. CPI

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Each font (except OCR fonts) supports printing at 5, 6, 6.67, 7.5, 8.33, 8.57, 10, 12, 13.33, 15, 16.67, 17.14, and 20 characters per inch (CPI). When using pitches below 10 CPI, the character is expanded horizontally to double its normal size; i.e., each character column is duplicated. This eliminates the need for additional font matrices to support the smaller CPIs.

## Character Attributes

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The following character attributes are available in all fonts, and may be mixed in any combination: bold, italic, overline, underline, strikethrough, superscript, subscript.

- Bold characters are made by duplicating each dot in the character, with a 1/288" offset down and 1/240" offset across.
- Italic characters are made by shifting succeeding rows of character dots to the left, to produce the desired character slant.
- Overline, underline, and strikethrough are made by overlaying an appropriately spaced horizontal line in the character's ascender, descender, or center row, respectively. There is an option to enable/disable underlining of spaces.
- Superscript and subscript are made by vertically compressing the character, altering the normal row spacing. Superscript characters are shifted into ascender rows and subscript characters are shifted into descender rows.

## Additional Notes

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- Plot data is aligned with the top uppercase row (not the top ascender row) and leftmost character cell column.
- In the OCR-B font, the numerals 0 through 9 are two rows taller than upper case characters, so they use two ascender rows.
- The printer accepts DP and NLQ downloaded fonts in Tally ANSI, Epson, and Proprinter download formats. Download fonts print in enhanced mode. When printed at 12 CPI, diagonals are slightly crooked. Tally ANSI extended font characters drop the last column.

# 2

## Language Substitutions

The following table lists languages in the order that they appear on the control panel for the Serial / Parallel / LAN interfaces.

Language	Panel	2 3	2 4	4 0	5 B	5 C	5 D	5 E	6 0	7 B	7 C	7 D	7 E
Int. Ref. Ver. – ISO 2	IRV	#	□	@	[	\	]	^	'	{		}	~
US – ISO 6	US	#	\$	@	[	\	]	^	'	{		}	~
German – ISO 21	German	#	\$	\$	Ä	Ö	Ü	^	'	ä	ö	ü	ß
Nor / Danish – ISO 60	Norwegian/Dan	#	\$	@	Æ	Ø	Å	^	'	æ	ø	å	~
French – ISO 69	French	£	\$	à	°	ç	§	^	'	é	ù	è	~
United Kingdom – ISO 4	UK	£	\$	@	[	\	]	^	'	{		}	~
Spanish – ISO 17	Spanish	£	\$	\$	i	Ñ	¿	^	'	°	ñ	ç	~
Swedish / Finn – ISO 11	Swedish/Finish	#	□	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italian – ISO 15	Italian	£	\$	\$	°	ç	é	^	'	à	ò	è	ì
Japanese – ISO 14	Japanese	#	\$	@	[	¥	]	^	'	{		}	~
Portuguese – ISO 16	Portuguese	#	\$	\$	Ä	Ç	Ó	^	'	ã	ç	õ	°
Canadian	Canadian	#	\$	à	â	ç	ê	î	ô	é	ù	è	û
Hungarian	Hungarian	#	□	Á	É	Ö	Ü	^	'	á	é	ö	ü
Chinese	Chinese	#	¥	@	[	\	]	^	'	{		}	~
French T6	French T6	£	\$	à	°	ç	§	^	'	é	ù	è	ê
Swedish / Finnish T6	Swedish T6	#	□	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italian T6	Italian T6	£	\$	\$	°	\	é	^	'	à	ò	è	ì
Canadian Alternate	Canadian Alt	#	\$	à	â	ç	ê	É	ô	é	ù	è	û
Swe / Finn Basic – ISO 10	Swedish Basic	#	□	@	Ä	Ö	Å	^	'	ä	ö	å	~
French Withdrawn	French Withdrwn	£	\$	à	°	ç	§	^	'	é	ù	è	~
Norwegian / Danish T6	Nor/Dan T6	£	\$	@	Æ	Ø	Å	^	'	æ	ø	å	~
UK LG	UK LG	£	\$	@	[	\	]	^	'	{		}	~
Dutch LG	Dutch LG	£	\$	¼	ij	½		^	'	..	f	¼	'
Finnish LG	Finnish LG	#	\$	@	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Swiss LG	Swiss LG	ù	\$	à	é	ç	ê	î	ô	ä	ö	ü	û
JIS Roman LG	JIS Roman LG	#	\$	@	[	¥	]	^	'	{		}	~
Nor / Danish LG	Nor/Dan LG	#	\$	Ä	Æ	Ø	Å	Ü	ä	æ	ø	å	ü
Swedish LG	Swedish LG	#	\$	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
ISO Nor / Danish LG	ISO Nor/Dan LG	#	\$	@	Æ	Ø	Å	^	'	æ	ø	å	~
Portuguese LG	Portuguese LG	#	\$	@	Ä	Ç	Ó	^	'	ã	ç	õ	~
VT100	VT100	#	\$	@	[	\	]	^	♦	π	≠	£	•
Turkish LG	Turkish LG	#	\$	İ	Ş	Ö	Ç	Ü	Ğ	ş	ö	ç	ü
Croatian-ASCII	Cro-ASCII	#	\$	Ž	Š	Đ	Č	Ž	š	đ	č	ž	č
Nor / Danish Epsilon	Nor/Dan Epsn	#	\$	@	Æ	Ø	Å	^	'	æ	ø	å	~
French Epsilon	French Epsn	#	\$	à	°	Ç	§	^	'	é	ù	è	~
UK Epsilon	UK Epsn	£	\$	@	[	\	]	^	'	{		}	~
Spanish Epsilon	Spanish Epsn	Pt	\$	@	i	Ñ	¿	^	'	..	ñ	}	~
Italian Epsilon	Italian Epsn	#	\$	@	\	é	^	'	'	à	ò	è	ì
Norwegian Epsilon	Norwegian Epsn	#	□	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Danish 2 Epsilon	Danish Epsn	#	\$	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Spanish 2 Epsilon	Spanish 2 Epsn	#	\$	á	i	Ñ	¿	é	'	í	ñ	ó	ú
Latin American Epsilon	Lat Amer Epsn	#	\$	á	i	Ñ	¿	é	ü	í	ñ	ó	ú

**NOTE:** Swiss LG01 substitutes è into location 5F.



# 3

## *Language And Character Set Escape Sequences*

All characters shown are ASCII except ESC which is 1B Hex and SOH which is 01 Hex. All other hex values are indicated by a 0x prefix. Languages or character sets not in this table can only be selected from the control panel.

Language	Panel Display	Tally ANSI G0	Tally ANSI G1	Genicom ANSI	LG01 <sup>1</sup>	MTPL <sup>1</sup>
ISO 2 IRV	IRV	ESC(@	ESC)@	-	-	-
ISO 4 UK	UK	ESC(A	ESC)A	ESC[7x or ESC[20x	-	ESC(A
ISO 6 US	US	ESC(B	ESC)B	ESC[0x	ESC(B	ESC(B
ISO 10 Swed/Finnish Basic	Swedish Basic	ESC(G	ESC)G	-	-	-
ISO 11 Swedish/Finnish	Swedish/Finish	ESC(H	ESC)H	ESC[15x or ESC[16x	-	ESC(H
ISO 14 Japanese	Japanese	ESC(J	ESC)J	-	-	-
ISO 15 Italian	Italian	ESC(Y	ESC)Y	ESC[6x or ESC[23x	ESC(Y	ESC(Y
ISO 16 Portuguese	Portuguese	ESC(L	ESC)L	-	-	ESC(L
ISO 17 Spanish	Spanish	ESC(Z	ESC)Z	ESC[8x or ESC[24x	ESC(Z	ESC(Z
ISO 21 German	German	ESC(K	ESC)K	ESC[1x	ESC(K	ESC(K
ISO 60 Nor/Danish	Norwegian/Dan	ESC('	ESC)'	ESC[9x or ESC[10x	-	ESC('
ISO 69 French	French	ESC(f	ESC)f	ESC[2x or ESC[3x	-	-
Canadian	Canadian	ESC(w	ESC)w	-	ESC(9	-

Language	Panel Display	Tally ANSI G0	Tally ANSI G1	Genicom ANSI	LG01 <sup>1</sup>	MTPL <sup>1</sup>
Hungarian	Hungarian	ESC(i	ESC)i	-	-	-
Chinese	Chinese	ESC(T	ESC)T	-	-	-
French T6	French T6	ESC(2	ESC)2	-	-	-
Swedish/Finnish T6	Swedish T6	ESC(3	ESC)3	ESC[2x or ESC[3x	-	-
Italian T6	Italian T6	ESC(4	ESC)4	-	-	-
Canadian Alternate	Canadian Alt	ESC(x	ESC)x	ESC[4x	-	-
French Withdrawn	French Withdrawn	ESC(R	ESC)R	-	ESC(R	ESC(R
Nor/Danish T6	Nor/Dan T6	ESC(5	ESC)5	-	-	-
UK LG	UK LG	-	-	-	ESC(A	-
Dutch LG	Dutch LG	-	-	-	ESC)4	-
Finnish LG	Finnish LG	-	-	-	ESC(5	-
Swiss LG	Swiss LG	-	-	-	ESC(=	-
JIS Roman LG	JIS Roman LG	-	-	-	ESC(J	-
Nor/Danish LG	Nor/Dan LG	-	-	-	ESC(6	-
Swedish LG	Swedish LG	-	-	-	ESC(7	-
Danish II Epson	Danish Epson	-	-	ESC[11x or ESC[12x	-	-
ISO 8859-1 Latin 1	Latin1 8859-1	ESC,A or ESC(%	ESC-A or ESC)%	ESC8591x	-	ESC(%
ISO 8859-2 Latin 2	Latin2 8859-2	ESC(&	ESC)&	ESC[8591x	-	ESC(&
ISO 8859-5 Cyrillic	Cyrillic 8859-5	ESC(*	ESC)*	ESC[8595x	-	ESC(*
ISO 8859-7 Greek	Greek 8859-7	ESC(-	ESC)-	-	-	ESC(*
ISO 8859-9 Turkish	Turkish 8859-9	ESC(.	ESC).	-	-	ESC(.
ISO 8859-15 Latin 9	Latin9 8859-15	ESC(/	ESC)/	-	-	ESC(/
Code Page 437 IBM Proprinter	Code Page 437	ESC(0x80	ESC)6 or ESC)0x80	ESC[437x	-	ESC(0x80
Code Page 850 Latin 1	Code Page 850	ESC(0x82	ESC)0x82	ESC[850x	-	ESC(0x82



Language	Panel Display	Tally ANSI G0	Tally ANSI G1	Genicom ANSI	LG01 <sup>1</sup>	MTPL <sup>1</sup>
Code Page 851 Greek	Code Page 851	ESC(0x88	ESC)0x88	-	-	ESC(0x88
Code Page 852 Latin 2	Code Page 852	ESC(0x87	ESC)0x87	ESC[852x	-	ESC(0x87
Code Page 857 Turkish	Code Page 857	ESC(0x8B	ESC)0x8B	-	-	-
Code Page 855 Russian Cyrillic	Code Page 855	ESC(0x8A	ESC)0x8A	ESC[855x	-	ESC(0x8A
Code Page 863 French Canadian	Code Page 863	ESC(0x85	ESC)0x85	ESC[863x	-	ESC(0x85
Code Page 866 Cyrillic	Code Page 866	ESC(0x8E	ESC)0x8E	ESC[866x	-	ESC(0x8E
Code Page 1250 Windows 98 Latin 2	Code Page 1250	ESC(p	ESC)p	-	-	ESC(p
Code Page 1251 Windows 98 Cyrillic	Code Page 1251	ESC(q	ESC)q	-	-	Esc(q
Code Page 1252 Windows 98 Latin 1	Code Page 1252	ESC(r	ESC)r	-	-	ESC(r
Code Page 1253 Windows 98 Greek	Code Page 1253	ESC(s	ESC)s	-	-	ESC(s
Code Page 1254 Windows 98 Turkish	Code Page 1254	ESC(t	ESC)t	-	-	ESC(t
DEC Multinational	DEC MultiNation	ESC(<	ESC)>	-	-	-
HP Roman-8	Roman-8	ESC(0x83	ESC)0x83	ESC[8575x	-	ESC(0x83
ISO Katakana ISO 13	-	ESC(1	ESC)1	-	-	-
Line Draw	-	ESC(7	ESC)7	-	-	-
SAP 8859-1	-	ESC(+	ESC)+	-	-	-
SAP 8859-2	-	ESC(,	ESC),	-	-	ESC(,
SAP 8859-5	-	ESC(#	ESC)#	-	-	ESC(#

<sup>1</sup> For LG01 and MTPL sequences, "(" indicates G0 and ")" indicates G1.  
For MTPL sequences, "\*" indicates G2 and "+" indicates G3.

<b>Language</b>	<b>Panel Display</b>	<b>Epson FX</b>	<b>P6000</b>	<b>HP2564C<sup>2</sup></b>	<b>LGPlus<sup>3</sup></b>
ISO 4 - UK	UK	-	SOHR0x03	ESC(1E	-
ISO 6 - US	US	ESCR0x00	SOHR0x00	ESC(0U	ESC(B
ISO 11 - Swedish/ Swedish/ Finnish	Swedish/ Finish	ESCR0x05	SOHR0x05	ESC(0S	-
ISO 14 - Japanese	Japanese	-	SOHR0x08	ESC(0K	-
ISO 15 - Italian	Italian	-	SOHR0x06	-	ESC(Y
ISO 17 - Spanish	Spanish	-	-	-	ESC(Z
ISO 21 - German	German	ESCR0x02	SOHR0x02	ESC(0G	ESC(K
ISO 60 - Norwegian/ Nor/Danish	Norwegian/ Dan	-	SOHR0x04	ESC(0D	-
ISO 69 - French	French	-	SOHR0x01	ESC(0F	-
Canadian	Canadian	-	-	-	ESC(9
French Withdrawn	French Withdrwn	-	-	-	ESC(R
UK LG	UK LG	-	-	-	ESC(R
Dutch LG	Dutch LG	-	-	-	ESC(4
Finnish LG	Finnish LG	-	-	-	ESC(5
Swiss LG	Swiss LG	-	-	-	ESC(=
JIS Roman LG	JIS Roman LG	ESCR0x08	SOHR0x08	-	ESC(J
Nor/Danish LG	Nor/Dan LG	-	-	-	ESC(6
Swedish LG	Swedish LG	-	-	-	ESC(7
ISO Nor/Dan LG	ISO Nor/Dan LG	-	-	-	ESC('
Portuguese LG	Portuguese LG	-	-	-	ESC(%6
VT100	VT100	-	-	-	ESC(0
Turkish LG	Turkish LG	-	-	-	ESC(%2
Danish II Epson	Danish Epson	ESCR0x0A	-	-	-

<b>Language</b>	<b>Panel Display</b>	<b>Epson FX</b>	<b>P6000</b>	<b>HP2564C <sup>2</sup></b>	<b>LGPlus <sup>3</sup></b>
Norwegian Epson	Norwegian Epson	ESCR0x09	-	-	-
Italian Epson	Italian Epson	ESCR0x06	-	-	-
Spanish Epson	Spanish Epson	ESCR0x07	SOHR0x07	-	-
UK Epson	UK Epson	ESCR0x03	-	-	-
French Epson	French Epson	ESCR0x01	-	-	-
Nor/Danish Epson	Nor/Dan Epson	ESCR0x04	-	-	-
ISO 8859-1 - Latin 1	Latin1 8859-1	-	-	ESC(0N	ESC-A
ISO 8859-2 - Latin 2	Latin2 8859-2	-	-	-	ESC-B
ISO 8859-5 - Cyrillic	Cyrillic 8859-5	-	-	-	ESC-L
ISO 8859-7 - Greek	Greek 8859-7	-	-	-	ESC-F
ISO 8859-9 - Turkish	Turkish 8859-9	-	-	-	ESC-M
ISO 8859-15 - Latin 9	Latin9 8859-15	-	-	-	ESC-b
Code Page 869 Greek	Code Page 869	-	-	-	ESC-0x9f
DEC Supplemental	DEC Supp.	-	-	-	ESC(%5 or ESC(<
DEC Technical	DEC Technical	-	-	-	ESC(>
DEC Turkish	DEC Turkish	-	-	-	-
Siemens Turkish	Siemens Turkish	-	-	-	-
Turkish Supplemental	Turkish Supp.	-	-	-	ESC(%0
Greek Supplemental	Greek Supp.	-	-	-	ESC("?
HP Roman-8	Roman-8	-	-	ESC(8U or ESC(0E	-
ISO Katakana ISO 13	-	-	-	ESC(1K	ESC(I
Line Draw	-	-	-	ESC(0L	-

<sup>2</sup> For HP2564C sequences, “(“ indicates the primary character set and “)” indicates secondary.

<sup>3</sup> For LGPlus sequences, “(“ represents (, ), \* or + to select G0, G1, G2 or G3. “-“ represents -, ., or / to select G1, G2 or G3.

# 4

## Standard Character Sets

Latin 1 – ISO 8859-1

	8	9	A	B	C	D	E	F
0	Ç	É		°	À	Ð	à	đ
1	ü	æ	ı	±	Á	Ñ	á	ñ
2	é	Æ	ø	²	Â	Ò	â	ò
3	â	ô	£	³	Ã	Ó	ã	ó
4	ä	ö	¤	´	Ä	Ö	ä	ö
5	à	ò	¥	µ	Å	Õ	å	õ
6	â	û	ı	¶	Æ	Ö	æ	ö
7	ç	ù	§	·	Ç	×	ç	÷
8	ê	ÿ	¨	,	È	Ø	è	ø
9	ë	Ï	©	¹	É	Ù	é	ù
A	è	Û	ª	º	Ê	Ú	ê	ú
B	ï	ø	«	»	Ë	Û	ë	û
C	î	£	¬	¼	Ì	Ü	ì	ü
D	ì	¥	-	½	Í	Ý	í	ý
E	Ä	Pt	®	¾	Î	ß	î	ß
F	Å	f	¯	¿	Ï	ß	ï	ÿ

Latin 2 – ISO 8859-2

	8	9	A	B	C	D	E	F
0	Ç	É		°	Ř	Đ	ř	đ
1	ü	æ	Ą	ą	Á	Ń	á	ń
2	é	Æ	˘	˙	Â	Ň	â	ň
3	â	ô	Ł	ł	Ă	Ó	ă	ó
4	ä	ö	ł	˘	Ä	Ŏ	ä	ö
5	à	ò	Ł	ł	Ĺ	Ŏ	ĺ	ŏ
6	â	û	Ś	ś	Ć	Ŏ	ć	ö
7	ç	ù	§	˘	Ç	×	ç	÷
8	ê	ÿ	¨	,	Č	Ř	č	ř
9	ë	Ï	Ś	ś	É	Ů	é	ů
A	è	Û	Ş	ş	Ę	Ú	ę	ú
B	ï	ø	Ť	ť	Ě	Ů	ě	ů
C	î	£	Ž	ž	Ě	Ů	ě	ů
D	ì	¥	-	¨	Í	Ý	í	ý
E	Ä	Pt	Ž	ž	Ī	Ť	ī	ť
F	Å	f	Ž	ž	Ď	ß	ď	·

Latin 9 – ISO 8859-15

	8	9	A	B	C	D	E	F
0	Ç	É		°	À	Ð	à	đ
1	ü	æ	ı	±	Á	Ñ	á	ñ
2	é	Æ	ø	²	Â	Ò	â	ò
3	â	ô	£	³	Ã	Ó	ã	ó
4	ä	ö	€	Ž	Ä	Ö	ä	ö
5	à	ò	¥	µ	Å	Õ	å	õ
6	â	û	Š	š	Æ	Ö	æ	ö
7	ç	ù	§	·	Ç	×	ç	÷
8	ê	ÿ	š	ž	È	Ø	è	ø
9	ë	Ï	©	¹	É	Ù	é	ù
A	è	Û	ª	º	Ê	Ú	ê	ú
B	ï	ø	«	»	Ë	Û	ë	û
C	î	£	¬	¼	Ì	Ü	ì	ü
D	ì	¥	-	½	Í	Ý	í	ý
E	Ä	Pt	®	¾	Î	ß	î	ß
F	Å	f	¯	¿	Ï	ß	ï	ÿ

Cyrillic – ISO 8859-5

	8	9	A	B	C	D	E	F
0	Ç	É		А	Р	а	р	№
1	ü	æ	Ё	Б	С	б	с	ё
2	é	Æ	Ѡ	В	Т	в	т	ђ
3	â	ô	Г	Г	У	г	у	ѓ
4	ä	ö	Є	Д	Ф	д	ф	є
5	à	ò	С	Е	Х	е	х	ѕ
6	â	û	І	Ж	Ц	ж	ц	і
7	ç	ù	Ї	З	Ч	з	ч	ї
8	ê	ÿ	Ј	И	Ш	и	ш	ј
9	ë	Ï	Љ	Й	Щ	й	щ	љ
A	è	Û	Њ	К	Ъ	к	ъ	њ
B	ï	ø	Ѣ	Л	Ы	л	ы	ђ
C	î	£	Ќ	М	Ь	м	ь	ќ
D	ì	¥	-	Н	Э	н	э	§
E	Ä	Pt	Ў	О	Ю	о	ю	ў
F	Å	f	Ѳ	П	Я	п	я	ѳ

**Greek – ISO 8859-7**

	8	9	A	B	C	D	E	F
0	Ç	É		°	İ	Π	Ü	π
1	Ü	æ	`	±	Α	Ρ	α	ρ
2	É	Æ	´	²	Β		β	ς
3	Â	ô	£	³	Γ	Σ	γ	σ
4	Ä	ö		´	Δ	Τ	δ	τ
5	À	ò		˘	Ε	Υ	ε	υ
6	Á	ú		Α	Ζ	Φ	ζ	φ
7	Ç	ù	§	■	Η	Χ	η	χ
8	Ê	ÿ	¨	Ε	Θ	Ψ	θ	ψ
9	Ë	Ö	©	Η	Ι	Ω	ι	ω
A	È	Ü		1	Κ	Ϊ	κ	ϊ
B	Ï	φ	«	»	Λ	Υ	λ	υ
C	Î	£	¬	Ο	Μ	ά	μ	ό
D	Ì	¥	-	½	Ν	έ	ν	ύ
E	Ä	Pt		Υ	Ξ	ή	ξ	ώ
F	À	f	-	Ω	Ο	ί	ο	

**Turkish – ISO 8859-9**

	8	9	A	B	C	D	E	F
0	Ç	É		°	À	Ğ	à	ğ
1	Ü	æ	ı	±	Á	Ñ	á	ñ
2	É	Æ	ç	²	Â	Ò	â	ò
3	Â	ô	£	³	Ã	Ó	ã	ó
4	Ä	ö	¤	´	Ä	Ô	ä	ô
5	À	ò	¥	µ	Å	Õ	å	õ
6	Á	ú		¶	Æ	Ö	æ	ö
7	Ç	ù	§	·	Ç	×	ç	÷
8	Ê	ÿ	¨	,	È	Ø	è	ø
9	Ë	Ö	©	¹	É	Ù	é	ù
A	È	Ü	ª	º	Ê	Ú	ê	ú
B	Ï	φ	«	»	Ë	Û	ë	û
C	Î	£	¬	¼	Ì	Ü	ì	ü
D	Ì	¥	-	½	Í	Ý	í	ý
E	Ä	Pt	®	¾	Î	Ş	î	ş
F	À	f	™	¿	Ï	ß	ï	ÿ

**Code Page 437**

	8	9	A	B	C	D	E	F
0	Ç	É	á	█	Ł	ł	α	≡
1	Ü	æ	í	█	⊥	⊥	β	±
2	é	Æ	ó	█	⊥	⊥	Γ	≥
3	â	ô	ú		⊥	⊥	π	≤
4	ä	ö	ñ	⊥	-	⊥	Σ	
5	à	ò	Ñ	⊥	⊥	⊥	σ	∫
6	á	ú	ª	⊥	⊥	⊥	μ	÷
7	ç	ù	°	⊥	⊥	⊥	τ	≈
8	ê	ÿ	¿	⊥	⊥	⊥	Φ	°
9	ë	Ö	¬	⊥	⊥	⊥	θ	•
A	è	Ü	¬	⊥	⊥	⊥	Ω	•
B	ï	φ	½	⊥	⊥	█	δ	√
C	î	£	¼	⊥	⊥	█	∞	∞
D	ì	¥	ı	⊥	=	█	ø	²
E	Ä	Pt	«	⊥	⊥	█	ε	■
F	À	f	»	⊥	⊥	█	∩	

**Code Page 437G - Greek**

	8	9	A	B	C	D	E	F
0	Α	Ρ	ı	█	Ł	ł	ω	Ω
1	Β	Σ	κ	█	⊥	⊥	ά	±
2	Γ	Τ	λ	█	⊥	⊥	έ	≥
3	Δ	Υ	μ		⊥	⊥	ή	≤
4	Ε	Φ	ν	⊥	-	⊥	ϊ	
5	Ζ	Χ	ξ	⊥	⊥	⊥	ί	∫
6	Η	Ψ	ο	⊥	⊥	⊥	ό	±
7	Θ	Ω	π	⊥	⊥	⊥	ύ	≈
8	Ι	α	ρ	⊥	⊥	⊥	ü	°
9	Κ	β	ς	⊥	⊥	⊥	ώ	£
A	Λ	γ	σ	⊥	⊥	⊥	Α	¥
B	Μ	δ	τ	⊥	⊥	█	Ε	√
C	Ν	ε	υ	⊥	⊥	█	Η	∞
D	Ξ	ζ	φ	⊥	=	█	ι	²
E	Ο	η	χ	⊥	⊥	█	Ο	■
F	Π	θ	ψ	⊥	⊥	█	Υ	

**Code Page 850 - Latin 1**

	8	9	A	B	C	D	E	F
0	Ç	É	á	█	Ł	đ	Ó	-
1	ü	æ	í	█	ł	Đ	β	±
2	é	Æ	ó	█	┘	Ê	Ô	=
3	â	ô	ú		┘	Ë	Ö	¾
4	ä	ö	ñ		-	È	õ	¶
5	à	ò	Ñ	À	†	ı	Õ	§
6	â	û	ª	Â	ã	Í	μ	÷
7	ç	ù	º	À	Ã	Î	þ	·
8	ê	ÿ	¿	©	Ł	İ	ƒ	°
9	ë	Ö	®	¶	¶	Ј	Ú	¨
A	è	Ü	¬	¶	¶	Г	Û	˙
B	ï	ø	½	¶	¶	█	Ü	¹
C	î	£	¼	¶	¶	█	ý	³
D	ì	Ø	ı	φ	=		Ý	²
E	Ä	×	«	¥	¶	İ	-	■
F	Å	f	»	₺	█	·		

**Code Page 851 - Greek**

	8	9	A	B	C	D	E	F
0	Ç	ı	ı̇	█	Ł	Τ	ζ	-
1	ü	æ	ı̇	█	ł	Υ	η	±
2	é	Ο	ó	█	┘	Φ	θ	υ
3	â	ô	ú		┘	Χ	ι	φ
4	ä	ö	Α		-	Ψ	κ	χ
5	à	Υ	Β	Κ	†	Ω	λ	§
6	Α	û	Γ	Λ	Π	α	μ	ψ
7	ç	ù	Δ	Μ	Ρ	β	ν	·
8	ê	Ω	Ε	Ν	Λ	γ	ξ	˙
9	ë	Ö	Ζ	¶	¶	Ј	ο	¨
A	è	Ü	Η	¶	¶	Г	π	ω
B	ï	ά	½	¶	¶	█	ρ	ü
C	î	£	Θ	¶	¶	█	σ	ü
D	È	έ	Ι	Ξ	=	δ	ς	ώ
E	Ä	ή	«	Ο	¶	ε	τ	■
F	Η	ί	»	₺	█	˙		

**Code Page 852 - Latin 2**

	8	9	A	B	C	D	E	F
0	Ç	É	á	█	Ł	đ	Ó	-
1	ü	Ł	í	█	ł	Đ	β	¨
2	é	Í	ó	█	┘	Ď	Ô	˘
3	â	ô	ú		┘	Ě	Ń	˘
4	ä	ö	Ą		-	ď	ň	˘
5	û	Ł	ą	À	†	Ń	ň	§
6	ć	ı	Ž	Â	Ã	Í	Š	÷
7	ç	Ś	ž	Ě	ă	Î	š	·
8	ł	ś	Ę	Ş	Ł	ě	Ř	°
9	ë	Ö	ę	¶	¶	Ј	Ú	¨
A	Ó	Ü		¶	¶	Г	Û	˙
B	ó	Ť	ž	¶	¶	█	Û	ů
C	î	ť	Č	¶	¶	█	ý	ř
D	Ž	ł	ş	Ž	=	┘	Ý	ř
E	Ä	×	«	ž	¶	Û	ı	■
F	Č	č	»	₺	█	·		

**Code Page 855 - Russian Cyrillic**

	8	9	A	B	C	D	E	F
0	ђ	љ	а	█	Ł	л	Я	·
1	Ђ	Љ	А	█	ł	Л	Р	ы
2	ѓ	њ	б	█	┘	м	Р	Ы
3	ђ	њ	Б		┘	М	с	з
4	ë	ñ	ц		-	н	С	З
5	Ë	Њ	Ц	х	†	Н	т	ш
6	е	ќ	д	Х	к	о	Т	Ш
7	Є	Ќ	Д	И	К	О	У	Э
8	s	ÿ	e	И	Ł	п	У	Э
9	S	Ÿ	E	¶	¶	Ј	ж	щ
A	i	ц	ф	¶	¶	Г	Ж	Щ
B	ı	Ц	Ф	¶	¶	█	в	ч
C	ï	ю	г	¶	¶	█	В	Ч
D	İ	Ю	Г	Й	=	П	ь	
E	j	ь	«	Й	¶	я	Ь	■
F	J	Ъ	»	₺	█	№		

Code Page 857 - Turkish

	8	9	A	B	C	D	E	F
0	Ç	É	á	█	Ł	ª	Ó	-
1	ü	æ	í	█	ł	º	ß	±
2	é	Æ	ó	█	Ṭ	Ë	Ö	=
3	â	ô	ú		Ṭ	Ë	Ö	¾
4	ä	ö	ñ		-	È	ø	¶
5	à	ò	Ñ	Á	†	ƒ	Ö	§
6	â	û	Ğ	Â	ã	Í	µ	÷
7	ç	ù	ğ	À	Ã	Î	þ	¸
8	ê	î	ı	©	ℒ	İ	×	°
9	ë	Ö	®	¶	ƒ	Ĵ	Ú	¨
A	è	Ü	¬	¶	ℒ	Ĵ	Û	·
B	ï	ø	½	¶	¶	█	Ü	¹
C	î	£	¼	¶	¶	█	ı	³
D	ı	Ø	ı	¢	=		ÿ	²
E	Ä	Ş	«	¥	¶		-	■
F	Å	ş	»	₺	¶	█	'	

Code Page 863 - French Canadian

	8	9	A	B	C	D	E	F
0	Ç	É		█	Ł	ℒ	α	≡
1	ü	Ë	'	█	ł	Ṭ	β	±
2	é	Ë	ó	█	Ṭ	Ṭ	Γ	≥
3	â	ô	ú		Ṭ	ℒ	π	≤
4	À	Ë	¨		-	ℒ	Σ	
5	à	ï	¸	¶	†	ƒ	σ	∫
6	¶	û	³	¶	¶	¶	µ	÷
7	ç	ù	-	¶	¶	¶	τ	≈
8	ê	æ	î	¶	ℒ	¶	Φ	°
9	ë	Ö	ƒ	¶	ƒ	Ĵ	θ	·
A	è	Ü	¬	¶	ℒ	Ĵ	Ω	·
B	ï	¢	½	¶	¶	█	δ	√
C	î	£	¼	¶	¶	█	∞	ⁿ
D	=	Û	¾	¶	=	█	ø	²
E	À	Û	«	¶	¶	█	ε	■
F	§	f	»	¶	ℒ	█	∩	

Code Page 866 - Cyrillic

	8	9	A	B	C	D	E	F
0	А	Р	а	█	Ł	ℒ	р	Ё
1	Б	С	б	█	ł	Ṭ	с	ё
2	В	Т	в	█	Ṭ	Ṭ	т	Є
3	Г	У	г		Ṭ	ℒ	у	є
4	Д	Ф	д		-	ℒ	ф	ї
5	Е	Х	е	¶	†	ƒ	х	ї
6	Ж	Ц	ж	¶	¶	ƒ	ц	Ў
7	З	Ч	з	¶	¶	¶	ч	ў
8	И	Ш	и	¶	ℒ	¶	ш	°
9	Й	Щ	й	¶	ƒ	Ĵ	щ	·
A	К	Ъ	к	¶	ℒ	Ĵ	ъ	·
B	Л	Ы	л	¶	¶	█	ы	√
C	М	Ь	м	¶	¶	█	ь	№
D	Н	Э	н	¶	=	█	э	α
E	О	Ю	о	¶	¶	█	ю	■
F	П	Я	п	¶	ℒ	█	я	

Code Page 866B - Bulgarian

	8	9	A	B	C	D	E	F
0	А	Р	а	р	Ł	█	α	≡
1	Б	С	б	с	ł	█	β	±
2	В	Т	в	т	Ṭ	█	Γ	≥
3	Г	У	г	у	Ṭ		π	≤
4	Д	Ф	д	ф	-		Σ	
5	Е	Х	е	х	†	№	σ	∫
6	Ж	Ц	ж	ц	¶	§	µ	÷
7	З	Ч	з	ч	¶	¶	τ	≈
8	И	Ш	и	ш	ℒ	¶	Φ	°
9	Й	Щ	й	щ	ƒ	Ĵ	θ	·
A	К	Ъ	к	ъ	ℒ	Ĵ	Ω	·
B	Л	Ы	л	ы	¶	█	δ	√
C	М	Ь	м	ь	¶	█	∞	ⁿ
D	Н	Э	н	э	=	█	ø	²
E	О	Ю	о	ю	¶	█	ε	■
F	П	Я	п	я	¶	█	∩	



**Code Page 869 - Greek**

	8	9	A	B	C	D	E	F
0		ı	ı̇	█	Ł	Ț	ζ	-
1		İ	İ̇	█	⊥	Υ	η	±
2		Ο	ό	█	⊥	Φ	θ	υ
3			ύ		⊥	Χ	ι	φ
4			Α	⊥	-	Ψ	κ	χ
5		Υ	Β	Κ	⊥	Ω	λ	§
6	Α	ÿ	Γ	Λ	Π	α	μ	ψ
7		©	Δ	Μ	Ρ	β	ν	¨
8	·	Ω	Ε	Ν	Λ	γ	ξ	°
9	¬	²	Ζ	⊥	⊥	⊥	ο	¨
A		³	Η		⊥	Γ	π	ω
B	'	ά	½	⊥	⊥	█	ρ	ü
C	'	£	Θ	⊥	⊥	█	σ	ü
D	Έ	έ	Ι	Ξ	=	δ	ς	ώ
E	-	ή	«	Ο	⊥	ε	τ	■
F	Η	ί	»	Γ	Σ	█	'	

**Code Page 928 - Greek**

	8	9	A	B	C	D	E	F
0	Ç	É		°	ı̇	Π	Û	π
1	ü	æ	'	±	Α	Ρ	α	ρ
2	é	Æ	`	²	Β		β	ς
3	â	ô	£	³	Γ	Σ	γ	σ
4	ä	ö		'	Δ	Τ	δ	τ
5	à	ò		¨	Ε	Υ	ε	υ
6	â	û	ı	Α	Ζ	Φ	ζ	φ
7	ç	ù	§	'	Η	Χ	η	χ
8	ê	ÿ	¨	Έ	Θ	Ψ	θ	ψ
9	ë	Ö	©	Ή	Ι	Ω	ι	ω
A	è	Ü		ı	Κ	Ϊ	κ	ϊ
B	ï	ø	«	»	Λ	ÿ	λ	ÿ
C	î	£	¬	Ο	Μ	ά	μ	ό
D	ì	¥	=	½	Ν	έ	ν	ύ
E	Ä	Pt		Υ	Ξ	ή	ξ	ώ
F	À	f	-	Ω	Ο	ί	ο	

**Code Page 1250 - Win 98 Latin 2**

	8	9	A	B	C	D	E	F
0	€			°	Ř	Đ	ř	đ
1		`	˘	±	Á	Ń	á	ń
2	,	'	˘	˘	Ā	Ń	ā	ñ
3		“	Ł	ł	Ā	Ó	ā	ó
4	„	”	¤	'	Ā	Ö	ä	ö
5	...	•	Ą	μ	Ĺ	Ő	ĺ	ő
6	†	-	ı	¶	Ć	Ö	ć	ö
7	‡	-	§	·	Ç	×	ç	÷
8			¨	,	Č	Ř	č	ř
9	‰	™	©	ą	É	Û	é	ű
A	Š	š	Ş	ş	Ę	Ú	ę	ú
B	<	>	«	»	Ě	Ů	ě	ů
C	Ś	ś	¬	Ł	Ě	Ü	ś	ü
D	Ť	ť	-	“	Í	Ý	í	ý
E	Ž	ž	®	ı	Ī	Ţ	ī	ţ
F	Ž	ž	Ž	ž	Ď	ß	ď	·

**Code Page 1251 - Win 98 Cyrillic**

	8	9	A	B	C	D	E	F
0	Ђ	ђ		°	А	Р	а	р
1	Г	г	Ў	±	Б	С	б	с
2	,	'	ў		В	Т	в	т
3	ѓ	“	Ј	ı	Г	У	г	у
4	„	”	¤	ѓ	Д	Ф	д	ф
5	...	•	Г	μ	Е	Х	е	х
6	†	-	ı	¶	Ж	Ц	ж	ц
7	‡	-	§	·	З	Ч	з	ч
8	€		Ё	ё	И	Ш	и	ш
9	‰	™	©	№	Й	Щ	й	щ
A	Ль	ль	Є	є	К	Ъ	к	ъ
B	<	>	«	»	Л	Ы	л	ы
C	Нь	нь	¬	ј	М	Ь	м	ь
D	К	ќ	-	Ѕ	Н	Э	н	э
E	Ћ	ћ	®	ѕ	О	Ю	о	ю
F	Џ	џ	Ї	ї	П	Я	п	я

Code Page 1252 - Win 98 Latin 1

	8	9	A	B	C	D	E	F
0	€			°	À	Ð	à	đ
1		`	ı	±	Á	Ñ	á	ñ
2	,	´	ç	²	Â	Ò	â	ò
3	f	“	£	³	Ã	Ó	ã	ó
4	„	”	¤	´	Ä	Ô	ä	ô
5	...	•	¥	µ	Å	Õ	å	õ
6	†	-		¶	Æ	Ö	æ	ö
7	‡	-	§	·	Ç	×	ç	÷
8	^	~	¨	¸	È	Ø	è	ø
9	‰	™	©	¹	É	Ù	é	ù
A	Š	š	ª	º	Ê	Ú	ê	ú
B	<	>	«	»	Ë	Û	ë	û
C	Œ	œ	¬	¼	Ì	Ü	ì	ü
D			-	½	Í	Ý	í	ý
E		ž	®	¾	Î	Þ	î	þ
F	Ž	Ÿ	¯	¿	Ï	ß	ï	ÿ

Code Page 1253 - Win 98 Greek

	8	9	A	B	C	D	E	F
0	€			°	ĩ	Π	ü	π
1		`	ˆ	±	Α	Ρ	α	ρ
2	,	´	Α	²	Β		β	ς
3	f	“	£	³	Γ	Σ	γ	σ
4	„	”	¤	´	Δ	Τ	δ	τ
5	...	•	¥	µ	Ε	Υ	ε	υ
6	†	-		¶	Ζ	Φ	ζ	φ
7	‡	-	§	·	Η	Χ	η	χ
8	^	~	¨	¸	Θ	Ψ	θ	ψ
9	‰	™	©	¹	Η	Ι	Ω	ι
A	Š	š	ª	º	Κ	Ϊ	κ	ϊ
B	<	>	«	»	Λ	Υ	λ	ύ
C	Œ	œ	¬	¼	Ο	Μ	α	μ
D			-	½	Ν	Ε	ν	ύ
E			®	¾	Υ	Ξ	ή	ξ
F		Ÿ	¯	¿	Ω	Ο	ί	ο

Code Page 1254 - Win 98 Turkish

	8	9	A	B	C	D	E	F
0	€			°	À	Ğ	à	ğ
1		`	ı	±	Á	Ñ	á	ñ
2	,	´	ç	²	Â	Ò	â	ò
3	f	“	£	³	Ã	Ó	ã	ó
4	„	”	¤	´	Ä	Ô	ä	ô
5	...	•	¥	µ	Å	Õ	å	õ
6	†	-		¶	Æ	Ö	æ	ö
7	‡	-	§	·	Ç	×	ç	÷
8	^	~	¨	¸	È	Ø	è	ø
9	‰	™	©	¹	É	Ù	é	ù
A	Š	š	ª	º	Ê	Ú	ê	ú
B	<	>	«	»	Ë	Û	ë	û
C	Œ	œ	¬	¼	Ì	Ü	ì	ü
D			-	½	Í	Ý	í	ý
E			®	¾	Î	Ş	î	ş
F		Ÿ	¯	¿	Ï	ß	ï	ÿ

Roman-8

	8	9	A	B	C	D	E	F
0	Ç	É		̄	â	À	Á	Ɔ
1	ü	æ	À	Ý	ê	î	Ã	Ɔ
2	é	Æ	Â	ý	ô	Ø	ã	·
3	â	ô	È	°	û	Æ	Ð	µ
4	ä	ö	Ê	Ç	á	à	đ	¶
5	à	ò	Ë	ç	é	í	Í	¾
6	â	û	Î	Ñ	ó	ø	ì	-
7	ç	ù	Ï	ñ	ú	æ	Ó	¼
8	ê	ÿ	ˆ	ı	à	Ä	Ò	½
9	ë	Ö	˘	¿	è	ì	Õ	ª
A	è	Ü	ˆ	¤	ò	Ö	õ	°
B	ï	ç	¨	£	ù	Ü	Š	«
C	î	£	˘	¥	ä	É	š	■
D	ì	¥	Ù	§	ë	ï	Ú	»
E	Ä	Pt	Û	f	ö	ß	ÿ	±
F	À	f	£	ç	ü	Ö	ÿ	

**DEC Multinational**

	8	9	A	B	C	D	E	F
0	Ç	É		°	À	Ð	à	đ
1	ü	æ	ı	±	Á	Ñ	á	ñ
2	é	Æ	ϕ	²	Â	Ò	â	ò
3	â	ô	£	³	Ã	Ó	ã	ó
4	ä	ö	¤	´	Ä	Ö	ä	ö
5	à	ò	¥	µ	Å	Õ	å	õ
6	â	û	ı	¶	Æ	Ö	æ	ö
7	ç	ù	§	·	Ç	Œ	ç	œ
8	ê	ÿ	¤	,	È	Ø	è	ø
9	ë	Ö	©	¹	É	Ù	é	ù
A	è	Ü	ª	º	Ê	Ú	ê	ú
B	ï	ϕ	«	»	Ë	Û	ë	û
C	î	£	¶	¼	Ì	Ü	ì	ü
D	ì	¥	=	½	Í	Ý	í	ÿ
E	Ä	Pt	®	¾	Î	Þ	î	þ
F	Å	f	™	¿	Ï	ß	ï	ÿ

**DEC Supplemental**

	8	9	A	B	C	D	E	F
0	Ç	É		°	À	¿	à	¿
1	ü	æ	ı	±	Á	Ñ	á	ñ
2	é	Æ	ϕ	²	Â	Ò	â	ò
3	â	ô	£	³	Ã	Ó	ã	ó
4	ä	ö	?	?	Ä	Ö	ä	ö
5	à	ò	¥	µ	Å	Õ	å	õ
6	â	û	?	¶	Æ	Ö	æ	ö
7	ç	ù	§	·	Ç	Œ	ç	œ
8	ê	ÿ	¤	?	È	Ø	è	ø
9	ë	Ö	©	¹	É	Ù	é	ù
A	è	Ü	ª	º	Ê	Ú	ê	ú
B	ï	ϕ	«	»	Ë	Û	ë	û
C	î	£	?	¼	Ì	Ü	ì	ü
D	ì	¥	?	½	Í	Ý	í	ÿ
E	Ä	Pt	?	?	Î	?	î	?
F	Å	f	?	¿	Ï	ß	ï	

**DEC Turkish**

	8	9	A	B	C	D	E	F
0	Ç	É	á	■	Ł	Ğ	α	ğ
1	ü	Æ	ı	■	ł	ƒ	β	±
2	é	Æ	ó	■	т	π	Γ	≥
3	â	Ô	ú		т	π	π	≤
4	ä	ö	ñ	ı	—	£	Σ	
5	à	ò	Ñ	ı	+	F	σ	ı
6	â	û	ª	ı	ı	Ö	μ	ö
7	ç	ù	°	π	Ç	†	ç	≈
8	ê	İ	¿	ı	Ł	≠	Φ	°
9	ë	Ö	ı	ı	ı	ı	θ	▪
A	è	Ü	ı	ı	ı	ı	Ω	•
B	ï	ø	½	ı	ı	■	δ	√
C	î	£	¼	ı	ı	Ü	∞	ü
D	ì	¥	ı	ı	=	ı	ø	²
E	Ä	Pt	ı	ı	ı	Ş	ε	ş
F	Å	f	»	ı	ı	ı	∩	

**Turkish Supplemental**

	8	9	A	B	C	D	E	F
0	Ç	É		°	À	Ğ	à	ğ
1	ü	æ	ı	±	Á	Ñ	á	ñ
2	é	Æ	ϕ	²	Â	Ò	â	ò
3	â	ô	£	³	Ã	Ó	ã	ó
4	ä	ö	?	?	Ä	Ö	ä	ö
5	à	ò	¥	µ	Å	Õ	å	õ
6	â	û	?	¶	Æ	Ö	æ	ö
7	ç	ù	§	·	Ç	Œ	ç	œ
8	ê	ÿ	¤	?	È	Ø	è	ø
9	ë	Ö	©	¹	É	Ù	é	ù
A	è	Ü	ª	º	Ê	Ú	ê	ú
B	ï	ϕ	«	»	Ë	Û	ë	û
C	î	£	?	¼	Ì	Ü	ì	ü
D	ì	¥	?	½	Í	Ý	í	ÿ
E	Ä	Pt	ı	ı	Î	Ş	î	ş
F	Å	f	?	¿	Ï	ß	ï	

**DEC Technical**

	8	9	A	B	C	D	E	F
0	Ç	É	√	**	∴	Π	¬	π
1	ü	æ	Γ	∠	∞	Ψ	α	ψ
2	é	Æ	—	**	∞	?	β	ρ
3	â	ô	∫	**	÷	Σ	Χ	σ
4	ä	ö	J	**	Δ	?	δ	τ
5	à	ò		**	∇	?	ε	?
6	â	û	Γ	**	Φ	√	φ	f
7	ç	ù	L	>	Γ	Ω	γ	ω
8	ê	ÿ	Γ	?	~	Ξ	η	ξ
9	ë	Ö	J	?	**	Υ	ι	υ
A	è	Ü	Γ	?	Θ	⊂	θ	ζ
B	ï	ø	L	?	×	⊃	κ	←
C	î	£	∫	≤	Λ	∩	λ	↑
D	ì	¥	J	≠	↔	∪	?	→
E	Ä	Pt	{	≥	⇒	^	v	↓
F	Å	f	{	∫	≡	v	∂	

\*\*character unavailable in this document

**Greek Supplemental**

	8	9	A	B	C	D	E	F
0	Ç	É		°	ï	?	ü	?
1	ü	æ	i	±	A	Π	α	π
2	é	Æ	φ	²	B	P	β	ρ
3	â	ô	£	³	Γ	Σ	γ	σ
4	ä	ö	?	?	Δ	T	δ	τ
5	à	ò	¥	μ	E	Υ	ε	υ
6	â	û	?	¶	Z	Φ	ζ	φ
7	ç	ù	§	·	H	X	η	χ
8	ê	ÿ	α	?	Θ	Ψ	θ	ψ
9	ë	Ö	⊙	¹	I	Ω	ι	ω
A	è	Ü	ª	º	K	ά	κ	ζ
B	ï	ø	«	»	Λ	έ	λ	ύ
C	î	£	?	¼	M	ή	μ	ώ
D	ì	¥	?	½	N	ί	ν	΄
E	Ä	Pt	?	?	Ξ	?	ξ	?
F	Å	f	?	ι	O	ό	ο	

**Kamenicky**

	8	9	A	B	C	D	E	F
0	Č	É	á	▒	L	⊥	α	≡
1	ü	ž	í	▒	⊥	⊥	β	±
2	é	Ž	ó	▒	T	Π	Γ	≥
3	ď	ô	ú		⊥	⊥	π	≤
4	ä	ö	ň	⊥	—	⊥	Σ	
5	Ď	Ó	Ň	⊥	⊥	F	σ	J
6	ř	ù	Ů	⊥	⊥	π	μ	÷
7	č	Ú	Ů	π	Ç	⊥	τ	≈
8	ě	ý	š	⊥	⊥	⊥	Φ	°
9	Ě	Ö	ř	⊥	⊥	J	θ	•
A	Ĺ	Ü	ř	⊥	⊥	Γ	Ω	•
B	Í	Š	Ř	⊥	⊥	■	δ	√
C	Ľ	Ĺ	¼	⊥	⊥	■	∞	n
D	Í	Ý	Š	⊥	=	■	∅	²
E	Ä	Ř	«	⊥	⊥	■	ε	■
F	Å	ř	»	⊥	⊥	■	∩	

**Mazovia**

	8	9	A	B	C	D	E	F
0	Ç	É	Ž	▒	L	⊥	α	≡
1	ü	ę	Ż	▒	⊥	⊥	β	±
2	é	ł	ó	▒	T	Π	Γ	≥
3	â	ô	Ó		⊥	⊥	π	≤
4	ä	ö	ń	⊥	—	⊥	Σ	
5	à	Ć	Ń	⊥	⊥	F	σ	J
6	ą	û	ż	⊥	⊥	π	μ	÷
7	ç	ù	ż	π	Ç	⊥	τ	≈
8	ê	Ś	ł	⊥	⊥	⊥	Φ	°
9	ë	Ö	ł	⊥	⊥	J	θ	•
A	è	Ü	ł	⊥	⊥	Γ	Ω	•
B	ï	ø	½	⊥	⊥	■	δ	√
C	î	ł	¼	⊥	⊥	■	∞	n
D	ć	¥	i	⊥	=	■	∅	²
E	Ä	ś	«	⊥	⊥	■	ε	■
F	Å	f	»	⊥	⊥	■	∩	

**SAP 8859-1**

	8	9	A	B	C	D	E	F
0	Ç	†		°	À	Đ	à	đ
1	ü	—	ı	±	Á	Ñ	á	ñ
2	é		ç	²	Â	Ò	â	ò
3	â	Г	£	³	Ã	Ó	ã	ó
4	ä	Г	¤	´	Ä	Ô	ä	ô
5	à	Г	¥	µ	Å	Õ	å	õ
6	â	Г	¦	¶	Æ	Ö	æ	ö
7	ç	†	§	·	Ç	×	ç	÷
8	ê	†	¨	,	È	Ø	è	ø
9	ë	Г	©	¹	É	Ù	é	ù
A	è	Г	ª	º	Ê	Ú	ê	ú
B	ï	ç	«	»	Ë	Û	ë	û
C	î	£	¬	¼	Ì	Ü	ì	ü
D	ì	¥	-	½	Í	Ý	í	ý
E	Ä	Pt	®	¾	Î	Þ	î	þ
F	À	f	¯	¿	Ï	ß	ï	ÿ

**SAP 8859-2**

	8	9	A	B	C	D	E	F
0	Ç	†		°	Ř	Đ	ř	đ
1	ü	—	Ą	ą	Á	Ñ	á	ñ
2	é		˘	˙	Â	Ń	â	ń
3	â	Г	Ł	ł	Ã	Ó	ã	ó
4	ä	Г	ł	´	Ä	Ô	ä	ô
5	à	Г	Ł	ł	Å	Õ	å	õ
6	â	Г	Ś	ś	Ć	Œ	ć	œ
7	ç	†	§	˘	Ç	×	ç	÷
8	ê	†	¨	,	Č	Ř	č	ř
9	ë	Г	Ś	ś	É	Û	é	û
A	è	Г	Ş	ş	Ę	Ú	ę	ú
B	ï	ç	Ť	ť	Ë	Û	ë	ú
C	î	£	Ž	ž	Ě	Ü	ě	ü
D	ì	¥	-	˝	Í	Ý	í	ý
E	Ä	Pt	Ž	ž	Ī	Ť	î	ť
F	À	f	Ž	ž	Ď	ß	ď	·

**SAP 8859-5**

	8	9	A	B	C	D	E	F
0	Ç	†		А	Р	а	р	№
1	ü	—	Ё	Б	С	б	с	ё
2	é		Ѡ	В	Т	в	т	ђ
3	â	Г	Ґ	Г	У	г	у	ѓ
4	ä	Г	Є	Д	Ф	д	ф	є
5	à	Г	Ѕ	Е	Х	е	х	ѕ
6	â	Г	І	Ж	Ц	ж	ц	і
7	ç	†	Ї	З	Ч	з	ч	ї
8	ê	†	Ј	И	Ш	и	ш	ј
9	ë	Г	Љ	Й	Щ	й	щ	љ
A	è	Г	Њ	К	Ъ	к	ъ	њ
B	ï	ç	Ѡ	Л	Ы	л	ы	ћ
C	î	£	Ќ	М	Ь	м	ь	ќ
D	ì	¥	-	Н	Э	н	э	§
E	Ä	Pt	Ў	О	Ю	о	ю	ў
F	À	f	Ѓ	П	Я	п	я	џ

**Siemens Turkish**

	8	9	A	B	C	D	E	F
0	Ç	É	á	◻	Ł	Ğ	α	ğ
1	ü	æ	ı	◻	Ł	ƒ	β	±
2	é	Æ	ó	◻	Г	Π	Γ	≥
3	â	ô	ú		†	Π	π	≤
4	ä	ö	ñ	†	—	Ł	Σ	
5	à	ò	Ñ	†	†	ƒ	σ	Ј
6	â	û	ª	†	†	Ö	μ	ö
7	ç	ù	°	Π	Ç	†	ç	≈
8	ê	ı	¿	†	Ł	†	Φ	°
9	ë	Ö	Г	†	ƒ	Ј	θ	•
A	è	Ü	¬	†	Ł	Г	Ω	•
B	ï	ø	½	†	†	◻	δ	√
C	î	£	¼	†	†	Ü	∞	ü
D	ì	¥	ı	†	=	ı	ø	ı
E	Ä	Pt	«	†	†	Ş	ε	ş
F	À	f	»	Г	†	◻	∩	

Katakana  
Line Draw

KATAKANA – ISO 13

	8	9	A	B	C	D	E	F
0				ー	夕	≡	@	P
1			。	ア	ナ	ム	A	Q
2			「	イ	ツ	メ	B	R
3			」	ウ	テ	モ	C	S
4			、	エ	ト	ヤ	D	T
5			・	オ	ナ	ユ	E	U
6			ヨ	カ	ニ	ヨ	F	V
7			ア	キ	ヲ	ヲ	G	W
8			イ	フ	ネ	リ	H	X
9			ウ	ケ	ノ	ル	I	Y
A			エ	コ	ハ	レ	J	Z
B			オ	サ	ヒ	ロ	K	[
C			ト	シ	フ	ワ	L	\
D			ユ	ス	ヘ	ソ	M	]
E			ヨ	セ	ホ	“	N	^
F			ク	ソ	マ	。	O	

LINE DRAW

	8	9	A	B	C	D	E	F
0		0		+	フ	┘	≠	┘
1	!	1	┘	┘	┘	┘	≠	┘
2	“	2	┘	┘	+	┘	≠	┘
3	#	3	┘	┘	■	┘	≠	┘
4	\$	4	┘	┘	■	┘	≠	┘
5	%	5		┘	┘	┘	≠	┘
6	&	6		┘	┘	+	≠	┘
7	‘	7	┘	┘	┘	┘	≠	┘
8	(	8	┘	┘	┘	■	≠	┘
9	)	9		=	┘	┘	≠	┘
A	*	:	+	┘	┘	┘	┘	┘
B	+	;	+	┘	┘	┘	┘	┘
C	,	<	┘	≠	┘	┘	┘	┘
D	-	=	┘	┘	+	┘	┘	┘
E	.	>	┘	≠	+	┘	┘	┘
F	/	?	+	≠	┘	┘	┘	

**ANSI OCR-A**

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	H	p	ç	É		°	À	Ð	à	đ
1			!	1	A	Q	a	q	ü	æ	;	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	é	Æ	ç	²	Â	Ò	â	ò
3			#	3	C	S	c	s	â	ô	£	³	Ã	Ó	ã	ó
4			§	4	D	T	d	t	ä	ö	¤	´	Ä	Ô	ä	ö
5			%	5	E	U	e	u	à	ò	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	â	û	¦	¶	Æ	Ö	æ	ö
7			´	7	G	W	g	w	ç	ù	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ê	ÿ	¨	¸	È	Ø	è	ø
9			)	9	I	Y	I	y	ë	ÿ	©	¹	É	Ù	é	ù
A			*	:	J	Z	j	z	è	Ü	ª	º	Ê	Û	ê	ú
B			+	;	K	[	k	{	ÿ	ç	«	»	Ë	Ü	ë	û
C			,	<	L	\	l		î	£	¬	¼	Ï	Û	ï	ü
D			-	=	M	]	m	}	ï	¥	-	½	Í	Ý	í	ý
E			.	>	N	^	n	~	Ä	P	®	¾	Î	Þ	î	þ
F			/	?	O	_	o		Å	f	¯	¿	Ï	ß	ï	ÿ

**ANSI OCR-B**

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P		p							À	à
1			!	1	A	Q	a	q							Æ	æ
2			"	2	B	R	b	r							Ä	ä
3			#	3	C	S	c	s			£					
4			\$	4	D	T	d	t			\$					
5			%	5	E	U	e	u			¥					
6			&	6	F	V	f	v							Ij	ij
7			´	7	G	W	g	w			§					
8			(	8	H	X	h	x							Ñ	
9			)	9	I	Y	I	y							Ø	ø
A			*	:	J	Z	j	z							Ö	ö
B			+	;	K	[	k	{								ß
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D			-	=	M	]	m	}							Ü	ü
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F			/	?	O	_	o	■								

**DIN OCR-A**

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P		p	ç	É		°	À	Ð	à	đ
1				1	A	Q	a	q	ü	æ	;	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	é	£	ç	²	Â	Ò	â	ò
3			£	3	C	S	c	s	â	ô	£	³	Ã	Ó	ã	ó
4			¢	4	D	T	d	t	ä	ö	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	à	ò	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	å	û	;	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	ç	ù	§	·	Ç	×	ç	÷
8			{	8	H	X	h	x	ê	ÿ	¨	¸	È	Ø	è	ø
9			}	9	I	Y	I	y	ë	ÿ	@	¹	É	Ù	é	ù
A			*	:	J	Z	j	z	è	Ü	a	o	Ê	Ú	ê	ú
B			+	;	K		k		ÿ	ç	«	»	Ë	Û	ë	û
C			,	<	L	¥	l	l	î	£	¬	¼	Ï	Ü	ï	ü
D			-	=	M	¥	m		ï	¥	-	½	Í	Ý	í	ý
E			.	>	N		n		Ä	P	®	¾	Î	Þ	î	þ
F			/	?	O		o	■	Å	f	¯	¿	Ï	ß	ï	ÿ

**DIN OCR-B**

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P		p							Å	å
1			!	1	A	Q	a	q							Æ	æ
2			"	2	B	R	b	r							Ä	ä
3			#	3	C	S	c	s			£					
4			¢	4	D	T	d	t			\$					
5			%	5	E	U	e	u			¥					
6			&	6	F	V	f	v							IJ	ij
7			‰	7	G	W	g	w			§					
8			(	8	H	X	h	x							Ñ	
9			)	9	I	Y	I	y							Ø	ø
A			*	:	J	Z	j	z							Ö	ö
B			+	;	K	[	k	{								ß
C			,	<	L	¥	l									
D			-	=	M	]	m	}							Ü	ü
E			.	>	N	^	n									
F			/	?	O	_	o	■								



## Proprinter And Epson Control Characters

In the IBM Proprinter III XL and FX-1180 emulations, it is possible to print from locations 00 Hex through 1F Hex with special escape sequences. The tables below define the printable characters:

Proprinter			Epson		
	0	1		0	1
0		▶	0	à	§
1	☺	◀	1	è	ß
2	☹	↕	2	ù	Æ
3	♥	!!	3	ò	æ
4	♦	¶	4	ì	Ø
5	♣	§	5	°	ø
6	♠	—	6	£	¨
7	●	↕	7	ı	Ä
8	◻	↑	8	ı	Ö
9	○	↓	9	Ñ	Ü
A	◼	→	A	ñ	ä
B	♂	←	B	ı	ö
C	♀	L	C	Pt	ü
D	♪	↔	D	À	É
E	♫	▲	E	á	é
F	☀	▼	F	ç	¥

**NOTE:** The Epson table above applies only to the default Epson character set, which is Italic. When other character sets are selected in the Epson emulation, characters printed from locations 00 through 1F Hex are mapped to characters defined in locations 80 through 9F Hex of the selected character set.



# 5

## Character Definitions

The tables below define all of the characters used to construct the character sets defined above. The first tables show the graphical representation of the characters as best as can be represented in this document using the Arial font in Word running Windows.

The second group of tables defines Unicode definition of each character, except for the Tally ANSI Line Draw characters. The Tally ANSI Line Draw characters are legacy characters that are considered to fall under the Unicode "Private Use" designation. The Unicode Standard is also defined by ISO 10646.

	I				S							L							N					
	3	4	5	6	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6			
0	PE	▶	α	≡		0	@	P	`	p	ı	ij	À	Đ	à	đ	À	˘	Ñ	ñ	Ğ			
1	☉	◀	β	±	!	1	A	Q	a	q	ı	”	Á	Ñ	á	ñ	˘	š	Ň	ň	ğ			
2	☉	↕	Γ	≥	"	2	B	R	b	r	¢	Pt	Â	Ò	â	ò	Ł	ş	Õ	õ	ı			
3	♥	!!	π	≤	#	3	C	S	c	s	£	³	Ã	Ó	ã	ó	Ł	ł	Ř	ř				
4	♦	ƒ	Σ	∫	\$	4	D	T	d	t	¤	´	Ä	Ö	ä	ö	Š	ž	Ú	ú				
5	♣	×	σ	∫	%	5	E	U	e	u	¥	ı	Å	Ö	å	ö	Š	š	Ú	ú				
6	♠	—	μ	÷	&	6	F	V	f	v	ı	ı	Æ	Ö	æ	ö	Š	ž	Ť	ť				
7	●	↕	τ	≈	'	7	G	W	g	w	§	f	Ç	œ	ç	œ	Š	ž	ř	ř				
8	□	↑	Φ	°	(	8	H	X	h	x	¨	˘	È	Ø	è	ø	Ž	Ř	ǎ	„				
9	○	↓	Θ	•	)	9	I	Y	I	y	©	¹	É	Ù	é	ù	Ž	ǎ	í	...				
A	☉	→	Ω	•	*	:	J	Z	j	z	ª	º	Ê	Ú	ê	ú	Ž	Í	ć	†				
B	♂	←	δ	√	+	;	K	[	k	{	«	»	Ë	Û	ë	û	ą	Č	č	%				
C	♀	L	∞	n	,	<	L	\			¬	¼	İ	Ü	ı	ü	ł	Č	ę	‡				
D	♪	↔	φ	²	-	=	M	]	m	}	≡	½	Í	Ý	í	ý	ł	Ę	ě	“				
E	♪	▲	ε	■	.	>	N	^	n	~	®	¾	Î	Þ	î	þ	ł	Ě	ď	™				
F	☼	▼	∩	■	/	?	O	_	o	△	—	¿	İ	ÿ	ı	ÿ	ł	Ď	ď	€				

IBM0&1

ASCII

LATIN 1

LATIN 2

	C					G			D		
	2	3	4	5	6	2	3	4	2	3	4
0	ћ	ќ	т	л	г	ˆ	é	ü	HT	Г	>
1	ѓ	ђ	ж	п	з	А	ή	ó	FF	Л	?
2	є	џ	ы	я		Е	í	ú	CR	Г	Г
3	љ	ю	з	у		Н	ü	ω	LF	Г	∴
4	њ	б	ш	ж		Г	γ	ώ	NL	Г	∞
5	ћ	ц	э	ы		Ο	ζ	´	VT	Г	∇
6	ќ	ц	щ	ш		Υ	η	Υ	—	Г	≈
7	ђ	ф	ч	э		Ω	ι	Ω	—	Г	↔
8	џ	г	ъ	щ		İ	κ	θ	—	Г	⇒
9	№	и	ю	ч		Δ	λ	α	—	Г	с
A	Ђ	й	б	ъ		Λ	ξ	π	—	Г	∩
B	Ѓ	к	ц	ь		Π	ρ	≡	≠	Г	∪
C	Є	л	д	в		Υ	ς	φ	√	Г	∧
D	Љ	н	ф	у		Ψ	υ	φ	Г	Г	∨
E	Њ	п	и	м		ÿ	ψ	Ο	—	Г	∂
F	Ћ	я	й	ѓ		ά	ϊ			Г	

CYRILLIC

GREEK

DEC

	W				M			K				
	4	5	6	7	3	4	5	2	3	4	5	
0												0
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
A												A
B												B
C												C
D												D
E												E
F												F

LDRAW

IBM2

KATA

## IBM0 and IBM1 Characters

Tally	Unicode	Description	Tally	Unicode	Description
I+30	U+N/A	Parity Error Symbol	I+4B	U+2190	Left Arrow
I+31	U+263A	Open Smiley Face	I+4C	U+221F	Right Angle Symbol
I+32	U+263B	Solid Smiley Face	I+4D	U+2194	Left/Right Arrow
I+33	U+2665	Solid Heart	I+4E	U+25B2	Up Solid Arrowhead
I+34	U+2666	Solid Diamond	I+4F	U+25BC	Down Solid Arrowhead
I+35	U+2663	Solid Club	I+50	U+03B1	Greek Small Letter Alpha
I+36	U+2660	Solid Spade	I+51	U+00DF	Latin Small Letter Sharp S
I+37	U+25CF	Medium Solid Round Bullet	I+52	U+0393	Greek Capital Letter Gamma
I+38	U+25D8	Large Solid Square with White Dot	I+53	U+03C0	Greek Small Letter Pi
I+39	U+25CB	Medium Open Round Bullet	I+54	U+03A3	Greek Capital Letter Sigma
I+3A	U+25D9	Large Solid Square with White Circle	I+55	U+03C3	Greek Small Letter Sigma
I+3B	U+2642	Male Symbol	I+56	U+03BC	Greek Small Letter Mu
I+3C	U+2640	Female Symbol	I+57	U+03C4	Greek Small Letter Tau
I+3D	U+266A	Musical Note	I+58	U+03A6	Greek Small Letter Phi
I+3E	U+266B	Pair of Musical Notes	I+59	U+0398	Greek Capital Letter Theta
I+3F	U+2600	Compass, or Eight Pointed Sun	I+5A	U+03A9	Greek Capital Letter Omega
I+40	U+25B6	Right Solid Arrowhead	I+5B	U+03B4	Greek Small Letter Delta
I+41	U+26C0	Left Solid Arrowhead	I+5C	U+221E	Infinity Symbol
I+42	U+2195	Up/Down Arrow	I+5D	U+03C6	Greek Small Letter Phi
I+43	U+203C	Double Exclamation Mark	I+5E	U+03B5	Greek Small Letter Epsilon
I+44	U+2310	Logical Not	I+5F	U+2229	Set Intersection Symbol
I+45	U+00D7	Multiplication Sign	I+60	U+2261	Exactly Equals Sign
I+46	U+2583	Thick Horizontal Mark	I+61	U+00B1	Plus Over Minus Sign
I+47	U+21A8	Up/Down Arrow Baseline	I+62	U+2265	Greater Than Or Equal Sign
I+48	U+2191	Up Arrow	I+63	U+2264	Less Than Or Equal Sign
I+49	U+2193	Down Arrow	I+64	U+2321	Top Integral
I+4A	U+2192	Right Arrow	I+65	U+2321	Bottom Integral

Tally	Unicode	Description	Tally	Unicode	Description
I+66	U+00F7	Divide Sign	I+6B	U+221A	Radical Symbol, or Standalone Diagonal
I+67	U+2248	Math Dot, or Centered Period	I+6C	U+207F	Superscript Lowercase N
I+68	U+00B0	Degree Sign	I+6D	U+00B2	Superscript Digital 2
I+69	U+2219	Math Dot, or Centered Period	I+6E	U+2584	Medium Solid Square Box
I+6A	U+2024	Centered Period, or Middle Dot	I+6F	U+2588	Solid Full High/Wide, or Rubout

# ASCII Characters

Tally	Unicode	Description	Tally	Unicode	Description
S+20	U+0020	Space	S+3B	U+003B	Semicolon
S+21	U+0021	Exclamation Mark	S+3C	U+003C	Less Than Sign
S+22	U+0022	Quotation Mark, or Neutral Double Quote	S+3D	U+003D	Equals Sign
S+23	U+0023	Number Sign, or Pound Sign	S+3E	U+003E	Greater Than Sign
S+24	U+0024	Dollar Sign	S+3F	U+003F	Question Mark
S+25	U+0025	Percent Sign	S+40	U+0040	Commercial At
S+26	U+0026	Ampersand	S+41	U+0041	Latin Capital Letter A
S+27	U+0027	Apostrophe or Neutral Single Quote	S+42	U+0042	Latin Capital Letter B
S+28	U+0028	Opening Parenthesis	S+43	U+0043	Latin Capital Letter C
S+29	U+0029	Closing Parenthesis	S+44	U+0044	Latin Capital Letter D
S+2A	U+002A	Asterisk	S+45	U+0045	Latin Capital Letter E
S+2B	U+002B	Plus Sign	S+46	U+0046	Latin Capital Letter F
S+2C	U+002C	Comma or Decimal Separator	S+47	U+0047	Latin Capital Letter G
S+2D	U+002D	Hyphen or Minus Sign	S+48	U+0048	Latin Capital Letter H
S+2E	U+002E	Period or Full Stop	S+49	U+0049	Latin Capital Letter I
S+2F	U+002F	Slash or Solidus	S+4A	U+004A	Latin Capital Letter J
S+30	U+0030	Digit Zero	S+4B	U+004B	Latin Capital Letter K
S+31	U+0031	Digit One	S+4C	U+004C	Latin Capital Letter L
S+32	U+0032	Digit Two	S+4D	U+004D	Latin Capital Letter M
S+33	U+0033	Digit Three	S+4E	U+004E	Latin Capital Letter N
S+34	U+0034	Digit Four	S+4F	U+004F	Latin Capital Letter O
S+35	U+0035	Digit Five	S+50	U+0050	Latin Capital Letter P
S+36	U+0036	Digit Six	S+51	U+0051	Latin Capital Letter Q
S+37	U+0037	Digit Seven	S+52	U+0052	Latin Capital Letter R
S+38	U+0038	Digit Eight	S+53	U+0053	Latin Capital Letter S
S+39	U+0039	Digit Nine	S+54	U+0054	Latin Capital Letter T
S+3A	U+003A	Colon	S+55	U+0055	Latin Capital Letter U

Tally	Unicode	Description	Tally	Unicode	Description
S+56	U+0056	Latin Capital Letter U	S+6C	U+006C	Latin Small Letter L
S+57	U+0057	Latin Capital Letter U	S+6D	U+006D	Latin Small Letter M
S+58	U+0058	Latin Capital Letter U	S+6E	U+006E	Latin Small Letter N
S+59	U+0059	Latin Capital Letter U	S+6F	U+006F	Latin Small Letter O
S+5A	U+005A	Latin Capital Letter U	S+70	U+0070	Latin Small Letter P
S+5B	U+005B	Latin Capital Letter U	S+71	U+0071	Latin Small Letter Q
S+5C	U+005C	Latin Capital Letter U	S+72	U+0072	Latin Small Letter R
S+5D	U+005D	Latin Capital Letter U	S+73	U+0073	Latin Small Letter S
S+5E	U+005E	Latin Capital Letter U	S+74	U+0074	Latin Small Letter T
S+5F	U+005F	Latin Capital Letter U	S+75	U+0075	Latin Small Letter U
S+61	U+0061	Latin Small Letter A	S+76	U+0076	Latin Small Letter V
S+62	U+0062	Latin Small Letter B	S+77	U+0077	Latin Small Letter W
S+63	U+0063	Latin Small Letter C	S+78	U+0078	Latin Small Letter X
S+64	U+0064	Latin Small Letter D	S+79	U+0079	Latin Small Letter Y
S+65	U+0065	Latin Small Letter E	S+7A	U+007A	Latin Small Letter Z
S+66	U+0066	Latin Small Letter F	S+7B	U+007B	Open Curly Bracket
S+67	U+0067	Latin Small Letter G	S+7C	U+007C	Vertical Bar
S+68	U+0068	Latin Small Letter H	S+7D	U+007D	Closing Curly Bracket
S+69	U+0069	Latin Small Letter I	S+7E	U+007E	Tilde or Spacing Tilde
S+6A	U+006A	Latin Small Letter J	S+7F	U+2302	House
S+6B	U+006B	Latin Small Letter K			



# Latin 1 Characters

Tally	Unicode	Description	Tally	Unicode	Description
L+20	U+2081	Subscript Digit One	L+39	U+00B9	Superscript Digit One
L+21	U+00A1	Inverted Exclamation Mark	L+3A	U+00BA	Masculine Ordinal Indicator
L+22	U+00A2	Cent Sign	L+3B	U+00BB	Right Pointing Guillemet
L+23	U+00A3	Pound Sign	L+3C	U+00BC	Fraction One Quarter
L+24	U+00A4	Currency Sign	L+3D	U+00BD	Fraction One Half
L+25	U+00A5	Yen Sign	L+3E	U+00BE	Fraction three Quarters
L+26	U+00A6	Broken Vertical Bar	L+3F	U+00BF	Inverted Question Mark
L+27	U+00A7	Section Sign	L+40	U+00C0	Latin Capital Letter A Grave
L+28	U+00A8	Spacing Diaeresis	L+41	U+00C1	Latin Capital Letter A Acute
L+29	U+00A9	Copyright Sign	L+42	U+00C2	Latin Capital Letter A Circumflex
L+2A	U+00AA	Feminine Ordinal Indicator	L+43	U+00C3	Latin Capital Letter A Tilde
L+2B	U+00AB	Left Pointing Guillemet	L+44	U+00C4	Latin Capital Letter A Diaeresis
L+2C	U+00AC	Not Sign	L+45	U+00C5	Latin Capital Letter A Ring
L+2D	U+2017	Double Underscore	L+46	U+00C6	Latin Capital Letter AE
L+2E	U+00AE	Registered Trade mark Sign	L+47	U+00C7	Latin Capital Letter C Cedilla
L+2F	U+00AF	Spacing Macron	L+48	U+00C8	Latin Capital Letter E Grave
L+30	U+0133	Latin Small Letter Ligature I J	L+49	U+00C9	Latin Capital Letter E Acute
L+31	U+201D	Closing Double Quote	L+4A	U+00CA	Latin Capital Letter E Circumflex
L+32	U+20A7	Paseta Sign	L+4B	U+00CB	Latin Capital Letter E Diaeresis
L+33	U+00B3	Superscript Digit 3	L+4C	U+00CC	Latin Capital Letter I Grave
L+34	U+00B4	Spacing Acute	L+4D	U+00CD	Latin Capital Letter I Acute
L+35	U+0131	Latin Small Letter Dotless I	L+4E	U+00CE	Latin Capital Letter I Circumflex
L+36	U+00B6	Paragraph Sign or Pilcrow	L+4F	U+00CF	Latin Capital Letter I Diaeresis
L+37	U+0192	Latin Small Letter Script F	L+50	U+00D0	Latin Capital Letter Eth
L+38	U+00B8	Spacing Cedilla	L+51	U+00D1	Latin Capital Letter N Tilde

<b>Tally</b>	<b>Unicode</b>	<b>Description</b>	<b>Tally</b>	<b>Unicode</b>	<b>Description</b>
L+52	U+00D2	Latin Capital Letter O Grave	L+69	U+00E9	Latin Small Letter E Acute
L+53	U+00D3	Latin Capital Letter O Acute	L+6A	U+00EA	Latin Small Letter E Circumflex
L+54	U+00D4	Latin Capital Letter O Circumflex	L+6C	U+00EC	Latin Small Letter I Grave
L+55	U+00D5	Latin Capital Letter O Tilde	L+6D	U+00ED	Latin Small Letter I Acute
L+56	U+00D6	Latin Capital Letter O Diaeresis	L+6E	U+00EE	Latin Small Letter I Circumflex
L+57	U+00D7	Latin Capital Letter OE	L+6F	U+00EF	Latin Small Letter I Diaeresis
L+58	U+00D8	Latin Capital Letter O Slash	L+70	U+00F0	Latin Small Letter Eth
L+59	U+00D9	Latin Capital Letter U Grave	L+71	U+00F1	Latin Small Letter N Tilde
L+5A	U+00DA	Latin Capital Letter U Acute	L+72	U+00F2	Latin Small Letter O Grave
L+5B	U+00DB	Latin Capital Letter U Circumflex	L+73	U+00F3	Latin Small Letter O Acute
L+5C	U+00DC	Latin Capital Letter U Diaeresis	L+74	U+00F4	Latin Small Letter O Circumflex
L+5D	U+00DD	Latin Capital Letter Y Acute	L+75	U+00F5	Latin Small Letter O Tilde
L+5E	U+00DE	Latin Capital Letter Thorn	L+76	U+00F6	Latin Small Letter O Diaeresis
L+5F	U+0178	Latin Capital Letter Y Diaeresis	L+77	U+00F7	Latin Small Letter OE
L+60	U+00E0	Latin Small Letter A Grave	L+78	U+00F8	Latin Small Letter O Slash
L+61	U+00E1	Latin Small Letter A Acute	L+79	U+00F9	Latin Small Letter U Grave
L+62	U+00E2	Latin Small Letter A circumflex	L+7A	U+00FA	Latin Small Letter U Acute
L+63	U+00E3	Latin Small Letter A Tilde	L+7B	U+00FB	Latin Small Letter U Circumflex
L+64	U+00E4	Latin Small Letter A Diaeresis	L+7C	U+00FC	Latin Small Letter U Diaeresis
L+65	U+00E5	Latin Small Letter A Ring	L+7D	U+00FD	Latin Small Letter Y Acute
L+66	U+00E6	Latin Small Letter AE	L+7E	U+00FE	Latin Small Letter Thorn
L+67	U+00E7	Latin Small Letter C Cedilla	L+7F	U+00FF	Latin Small Letter Y Diaeresis
L+68	U+00E8	Latin Small Letter E Grave	L+6B	U+00EB	Latin Small Letter E Diaeresis

## Latin 2 Characters

Tally	Unicode	Description	Tally	Unicode	Description
N+20	U+0104	Latin Capital Letter A Ogonek	N+3A	U+0139	Latin Capital Letter L Acute
N+21	U+02D8	Spacing Breve	N+3B	U+0106	Latin Capital Letter C Acute
N+22	U+0141	Latin Capital Letter L Slash	N+3C	U+010C	Latin Capital Letter C Hacek
N+23	U+013D	Latin Capital Letter L Hacek	N+3D	U+0118	Latin Capital Letter E Ogonek
N+24	U+015A	Latin Capital Letter S Acute	N+3E	U+0114	Latin Capital Letter E Breve
N+25	U+0160	Latin Capital Letter S Hacek	N+3F	U+010E	Latin Capital Letter D Hacek
N+26	U+015E	Latin Capital Letter S Cedilla	N+40	U+0143	Latin Capital letter N Acute
N+27	U+0164	Latin Capital Letter T Hacek	N+41	U+0147	Latin Capital Letter N Hacek
N+28	U+0179	Latin Capital Letter Z Acute	N+42	U+0150	Latin Capital Letter O Double Acute
N+29	U+017D	Latin Capital Letter Z Hacek	N+43	U+0158	Latin Capital letter R Hacek
N+2A	U+017B	Latin Capital Letter Z Dot	N+44	U+016E	Latin Capital Letter U Ring
N+2B	U+0105	Latin Small Letter A Ogonek	N+45	U+0170	Latin Capital Letter U Double Acute
N+2C	U+02DB	Spacing Ogonek	N+46	U+0162	latin Capital Letter T Cedilla
N+2D	U+0142	Latin Small Letter L Slash	N+47	U+0155	Latin Small Letter R Acute
N+2E	U+013E	Latin Small Letter L Hacek	N+48	U+0102	Latin Small Letter A Breve
N+2F	U+015B	Latin Small Letter S Acute	N+49	U+013A	Latin Small Letter L Acute
N+30	U+02C7	Spacing Hacek	N+4A	U+0107	latin Small Letter C Acute
N+31	U+0161	latin Small Letter S Hacek	N+4B	U+010D	Latin Small Letter C Hacek
N+32	U+015F	Latin Small Letter S Cedilla	N+4C	U+0119	Latin Small letter E Ogonek
N+33	U+0165	Latin Small Letter T Hacek	N+4D	U+0115	Latin Small Letter E Breve
N+34	U+017A	Latin Small Letter Z Acute	N+4E	U+010F	Latin Small Letter D Hacek
N+35	U+02DD	Spacing Double Acute	N+4F	U+0111	Latin Small Letter D Bar
N+36	U+017E	Latin Small Letter Z Hacek	N+50	U+0144	Latin Small Letter N Acute
N+37	U+017C	Latin Small Letter Z Dot	N+51	U+0148	Latin Small Letter N Hacek
N+38	U+0154	Latin Capital Letter R Acute	N+52	U+0151	Latin Small Letter O Double Acute
N+39	U+01A2	Latin Capital letter A Breve	N+53	U+00D3	Latin Capital Letter O Acute

Tally	Unicode	Description	Tally	Unicode	Description
N+54	U+016F	Latin Small Letter U Ring	N+5C	U+2021	Double Dagger
N+55	U+0171	Latin Small Letter U Double Acute	N+5D	U+201C	Open Double Quotation Mark
N+56	U+0163	Latin Small Letter T Cedilla	N+5E	U+2122	Trademark Symbol
N+57	U+02D9	Spacing Dot Above	N+5F	U+20AC	Euro Currency Symbol
N+58	U+201E	Low Closing Double Quotation Mark	N+60	U+011E	Latin Capital Letter G Breve
N+59	U+2026	Horizontal Ellipsis	N+61	U+011F	Latin Small Letter G Breve
N+5A	U+2020	Dagger	N+62	U+0130	Latin Capital Letter I Dot
N+5B	U+2030	Per Mile Sign			

## Cyrillic Characters

Tally	Unicode	Description	Tally	Unicode	Description
C+20	U+0452	Cyrillic Small Letter Dje	C+3B	U+043A	Cyrillic Small Letter Ka
C+21	U+0453	Cyrillic Small Letter Gje	C+3C	U+043B	Cyrillic Small Letter El
C+22	U+0454	Cyrillic Small Letter E	C+3D	U+043D	Cyrillic Small Letter En
C+23	U+0459	Cyrillic Small Letter Lje	C+3E	U+043E	Cyrillic Small Letter Pe
C+24	U+045A	Cyrillic Small Letter Nje	C+3F	U+044F	Cyrillic Small Letter I
C+25	U+045B	Cyrillic Small Letter Tshe	C+40	U+0442	Cyrillic Small Letter Te
C+26	U+045C	Cyrillic Small Letter Kje	C+41	U+0436	Cyrillic Small Letter Zhe
C+27	U+045D	Cyrillic Small Letter Short U	C+42	U+044B	Cyrillic Small Letter Yeri
C+28	U+045E	Cyrillic Small Letter Dzhe	C+43	U+0437	Cyrillic Small Letter Ze
C+29	U+2116	Numero	C+44	U+0448	Cyrillic Small Letter Sha
C+2A	U+0402	Cyrillic Capital Letter Dje	C+45	U+044D	Cyrillic Small Letter Reversed E
C+2B	U+0403	Cyrillic Capital Letter Gje	C+46	U+0449	Cyrillic Small Letter Shcha
C+2C	U+0404	Cyrillic Capital Letter E	C+47	U+0447	Cyrillic Small Letter Che
C+2D	U+0409	Cyrillic Capital Letter Lje	C+48	U+044A	Cyrillic Small Letter Hard Sign
C+2E	U+040A	cyrillic Capital Letter Nje	C+49	U+042E	Cyrillic Capital Letter Iu
C+2F	U+040B	Cyrillic Capital Letter Tshe	C+4A	U+0411	Cyrillic Capital Letter Be
C+30	U+040C	Cyrillic Capital Letter Kje	C+4B	U+0426	Cyrillic Capital Letter Tse
C+31	U+040E	Cyrillic Capital Letter Short U	C+4C	U+0414	Cyrillic Capital Letter De
C+32	U+040F	Cyrillic Capital Letter Dzhe	C+4D	U+0424	Cyrillic Capital Letter Ef
C+33	U+044E	Cyrillic Small Letter Iu	C+4E	U+0418	Cyrillic Capital Letter Ii
C+34	U+0431	Cyrillic Small Letter Be	C+4F	U+0419	Cyrillic Capital Letter Short Ii
C+35	U+0426	Cyrillic Capital Letter Tse	C+50	U+041B	Cyrillic Capital Letter El
C+36	U+0446	Cyrillic Small Letter Tse	C+51	U+041F	Cyrillic Capital Letter Pe
C+37	U+0444	Cyrillic Small Letter Ef	C+52	U+042F	Cyrillic Capital Letter Ia
C+38	U+0433	Cyrillic Small Letter Ge	C+53	U+0423	Cyrillic Capital Letter U
C+39	U+0438	Cyrillic Small Letter Ii	C+54	U+0416	Cyrillic Capital Letter Zhe
C+3A	U+0439	Cyrillic Small Letter Short Ii	C+55	U+042B	Cyrillic Capital Letter Yeri

Tally	Unicode	Description	Tally	Unicode	Description
C+56	U+0428	Cyrillic Capital Letter Sha	C+5C	U+0432	Cyrillic Small Letter Ve
C+57	U+042D	Cyrillic Capital Letter Reversed E	C+5D	U+0443	Cyrillic Small Letter U
C+58	U+0429	Cyrillic Capital Letter Shcha	C+5E	U+043C	Cyrillic Small Letter Em
C+59	U+0427	Cyrillic Capital Letter Che	C+5F	U+0403	Cyrillic Capital Letter Gje
C+5A	U+042A	Cyrillic Capital Letter Hard Sign	C+60	U+0453	Cyrillic Small Letter Gje
C+5B	U+044C	Cyrillic Small Letter Soft Sign			

## Greek Characters

Tally	Unicode	Description	Tally	Unicode	Description
G+20	U+03F4	Greek Spacing Diaeresis Tonos	G+33	U+03B0	Greek Small Letter upsilon Diaeresis Tonos
G+21	U+0386	Greek Capital Letter Alpha Tonos	G+34	U+03B3	Greek Small Letter Gamma
G+22	U+0388	Greek Capital Letter Epsilon Tonos	G+35	U+03B6	Greek Small Letter Zeta
G+23	U+0389	Greek Capital Letter Eta Tonos	G+36	U+03B7	Greek Small Letter Eta
G+24	U+028A	Greek Capital Letter Iota Tonos	G+37	U+03B9	Greek Small Letter Iota
G+25	U+038C	Greek Capital Letter Omicron Tonos	G+38	U+03BA	Greek Small Letter Kappa
G+26	U+038E	Greek Capital Letter Upsilon Tonos	G+39	U+03BB	Greek Small Letter Lambda
G+27	U+038F	Greek Capital letter Omega Tonos	G+3A	U+03BE	Greek Small Letter Xi
G+28	U+0390	Greek Capital Letter Delta	G+3B	U+03C1	Greek Small Letter Ro
G+29	U+0394	Greek Capital Letter Delta	G+3C	U+03C2	Greek Small Letter Final Sigma
G+2A	U+039B	Greek Capital Letter Lambda	G+3D	U+03C5	Greek Small Letter Upsilon
G+2B	U+03A0	Greek Capital Letter Pi	G+3E	U+03C8	Greek Small Letter Psi
G+2C	U+03A5	Greek Capital Letter Upsilon	G+3F	U+03CA	Greek Small Letter Iota Diaeresis
G+2D	U+03A8	Greek Capital Letter Psi	G+40	U+03CB	Greek Small Letter Upsilon Diaeresis
G+2E	U+03AB	Greek Capital Letter Upsilon Diaeresis	G+41	U+03CC	Greek Small Letter Omicron Tonos
G+2F	U+03AC	Greek Small Letter Alpha Tonos	G+42	U+03CD	Greek Small Letter Upsilon Tonos
G+30	U+03AD	Greek Small Letter Epsilon Tonos	G+43	U+03C9	Greek Small Letter Omega
G+31	U+03AE	Greek Small Letter Eta Tonos	G+44	U+03CE	Greek Small Letter Omega Tonos
G+32	U+03AF	Greek Small Letter Iota Tonos	G+45	U+03F3	Greek Spacing Tonos

Tally	Unicode	Description	Tally	Unicode	Description
G+46	U+038E	Greek Capital Letter Upsilon Tonos (Alternate Style)	G+4B	U+039E	Greek Capital Letter Xi
G+47	U+038F	Greek Capital Letter Omega Tonos	G+4C	U+03C6	Greek Small Letter Phi
G+48	U+03B8	Greek Small Letter Theta	G+4D	U+03C6	Greek Small Letter Phi (alternate style)
G+49	U+03B1	Greek Small Letter Alpha	G+4E	N/A	Greek Capital Omega (traditional)
G+4A	U+03C0	Greek Small Letter Pi			



## DEC VT100 And Technical Characters

Tally	Unicode	Description	Tally	Unicode	Description
D+20	U+2409	Symbol for Horizontal Tabulation	D+36	U+239E	Right parenthesis Upper Hook
D+21	U+240C	Symbol for Form Feed	D+37	U+03B9	Greek Small Letter Iota
D+22	U+240D	Symbol for Carriage Return	D+38	U+03BA	Greek Small Letter Kappa
D+23	U+240A	Symbol for Line Feed	D+39	U+03BB	Greek Small Letter Lambda
D+24	U+2424	Symbol for New Line	D+3A	N/A	Top Left Sigma
D+25	U+240B	Symbol for Vertical Tabulation	D+3B	N/A	Bottom Left Sigma
D+26	U+23BA	Horizontal Scan Line 1	D+3C	N/A	Top Diagonal Sigma
D+27	U+23BB	Horizontal Scan Line 3	D+3D	N/A	Bottom Diagonal Sigma
D+28	N/A	Horizontal Scan Line 5	D+3E	N/A	Top Right Sigma
D+29	U+23BC	Horizontal Scan Line 7	D+3F	N/A	Bottom Right Sigma
D+2A	U+23BD	Horizontal Scan Line 9	D+40	N/A	Middle Sigma
D+2B	U+2260	Not Equal To	D+41	U+2426	Symbol for Substitute Form Two
D+2C	U+23B7	Radical Symbol Bottom	D+42	U+222B	Integral
D+2D	U+250C	Box Drawings Light Down and Right	D+43	U+2234	Therefore
D+2E	U+2500	Box Drawings Light Horizontal	D+44	U+221D	Proportional To
D+2F	U+2502	Box Drawings Light Vertical	D+45	U+2207	Nabla
D+30	U+23A1	Left Square Bracket Upper Corner	D+46	U+2243	Asymptotically Equal To
D+31	U+23A3	Left Square Bracket Lower Corner	D+47	U+21D4	Left Right Double Arrow
D+32	U+23A4	Right Square Bracket Upper Corner	D+48	U+21D2	Rightwards Double Arrow
D+33	U+23A6	Right Square Bracket Lower Corner	D+49	U+2282	Subset Of
D+34	U+239B	Left Parenthesis Upper Hook	D+4A	U+2283	Superset Of
D+35	U+239D	Left Parenthesis Lower Hook	D+4B	U+222A	Union

Tally	Unicode	Description	Tally	Unicode	Description
D+4C	U+2227	Logical And	D+4E	U+2202	Partial Differential
D+4D	U+2228	Logical Or			

## Line Draw And IBM2 Characters

Tally	Unicode	Description	Tally	Unicode	Description
M+30	U+2591	Light Shade	M+43	U+251C	Forms Vertical and Right
M+31	U+2592	Medium Shade	M+44	U+2500	Forms Horizontal
M+32	U+2593	Dark Shape	M+45	U+253C	Forms Horizontal and Vertical
M+33	U+2502	Forms Vertical	M+46	U+255E	Forms Vertical Single and Double Right
M+34	U+2524	Forms Vertical and Left	M+47	U+255F	Forms Vertical Double and Right Single
M+35	U+2561	Forms Vertical Single and Left Double	M+48	U+255A	Forms Double Up and Right
M+36	U+2562	Forms Vertical Double and Left Single	M+49	U+2554	Forms Double Down and Right
M+37	U+2556	Forms Left Double and Down Single	M+4A	U+2569	Forms Double Up and Horizontal
M+38	U+2555	Forms Left Double and Down Single	M+4B	U+2566	Forms Double Down and Horizontal
M+39	U+2563	Forms Double Vertical and Left	M+4C	U+2560	Forms Double Vertical and Right
M+3A	U+2551	Forms Double Vertical	M+4D	U+2550	Forms Double Horizontal
M+3B	U+2557	Forms Double Down and Left	M+4E	U+256C	Forms Double Vertical and Horizontal
M+3C	U+255D	Forms Double Up and Left	M+4F	U+2567	Forms Up Single and Horizontal Double
M+3D	U+255C	Forms Double Up and Left Single	M+50	U+2568	Forms Up Double and Horizontal Single
M+3E	U+255B	Forms Up Single and Left Double	M+51	U+2564	Forms Down Single and Horizontal Double
M+3F	U+2510	Forms Down and Left	M+52	U+2565	Forms Down Double and Horizontal Single
M+40	U+2514	Forms Up and Right	M+53	U+2559	Forms Up Double and Right Single
M+41	U+2534	Forms Up and Horizontal	M+54	U+2558	Forms Up Single and Right Double
M+42	U+252C	Forms Down and Horizontal	M+55	U+2552	Forms Down Single and Right Double

<b>Tally</b>	<b>Unicode</b>	<b>Description</b>	<b>Tally</b>	<b>Unicode</b>	<b>Description</b>
M+56	U+2553	Forms Down Double and Right Single	M+58	U+256A	Forms Vertical Single and Horizontal Double
M+57	U+256B	Forms Vertical Double and Horizontal Single	M+59	U+2518	Forms Up and Left

## Katakana Characters

Tally	Unicode	Description	Tally	Unicode	Description
K+25	U+300C	Katakana Opening Corner Bracket	K+41	U+30C1	Katakana Chi
K+26	U+30F2	Katakana Wo	K+42	U+30C4	Katakana Tsu
K+27	U+30D5	Katakana Hu	K+43	U+30C6	Katakana Te
K+28	U+30A3	Katakana Small I	K+44	U+30C8	Katakana To
K+29	U+30A5	Katakana Small U	K+45	U+30CA	Katakana Na
K+2A	U+30A7	Katakana Small E	K+46	U+30CB	Katakana Ni
K+2B	U+30A9	Katakana Small O	K+47	U+30CC	Katakana Nu
K+2C	U+30E3	Katakana Small Ya	K+48	U+30CD	Katakana Ne
K+2D	U+30E5	Katakana Small Yu	K+49	U+30CE	Katakana No
K+2E	U+30E7	Katakana Small Yo	K+4A	U+30CF	Katakana Ha
K+2F	U+30C3	Katakana Small Tsu	K+4B	U+30D2	Katakana Hi
K+30	U+300D	Katakana Closing Corner Bracket	K+4C	U+30D5	Katakana Fu
K+31	U+30A2	Katakana A	K+4D	U+30D8	Katakana He
K+32	U+30A4	Katakana I	K+4E	U+30DB	Katakana Ho
K+33	U+30A6	Katakana U	K+4F	U+30DE	Katakana Ma
K+34	U+30A8	Katakana E	K+50	U+30DF	Katakana Mi
K+35	U+30AA	Katakana O	K+51	U+30E0	Katakana Mu
K+36	U+30AB	Katakana Ka	K+52	U+30E1	Katakana Me
K+37	U+30AD	Katakana Ki	K+53	U+30E2	Katakana Mo
K+38	U+30AF	Katakana Ku	K+54	U+30E4	Katakana Ya
K+39	U+30B1	Katakana Ke	K+55	U+30E6	Katakana Yu
K+3A	U+30B3	Katakana Ko	K+56	U+30E8	Katakana Yo
K+3B	U+30B5	Katakana Sa	K+57	U+30E9	Katakana Ra
K+3C	U+30B7	Katakana Shi	K+58	U+30EA	Katakana Ri
K+3D	U+30B9	Katakana Su	K+59	U+30EB	Katakana Ru
K+3E	U+30BB	Katakana Se	K+5A	U+30EC	Katakana Re
K+3F	U+30BD	Katakana So	K+5B	U+30ED	Katakana Ro
K+40	U+30BF	Katakana Ta	K+5C	U+30EF	Katakana Wa

Tally	Unicode	Description	Tally	Unicode	Description
K+5D	U+30F3	Katakana N	K+5E	U+3002	Katakana/CJK Full Stop

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# A

# *Customer Support*

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## **TallyGenicom Customer Support Center**

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**IMPORTANT** Please have the following information available prior to calling the TallyGenicom 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. Press **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 or emailing these samples may be required)

Americas (714) 368-2686  
Europe, Middle East, and Africa (31) 24 6489 311  
Asia Pacific (65) 6548 4114  
China (86) 800-999-6836  
<http://www.tallygenicom.com/service/default.aspx>

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## **TallyGenicom Supplies Department**

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Contact the TallyGenicom Supplies Department for genuine TallyGenicom supplies.

Americas (800) 733-1900  
Europe, Middle East, and Africa 33 (0) 1 46 25 19 07  
Asia Pacific (65) 6548 4116  
or (65) 6548 4182  
China (86) 400-886-5598  
India (800) 102-7869  
<http://www.tallygenicom.com/supplies/default.aspx>

## Corporate Offices

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Visit the web site at [www.tallygenicom.com](http://www.tallygenicom.com)



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