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Programmers Guide

Genicom Quick Reference

GENICOM Printer 3840

For Printer PP 40x / PP 80x

GENICOM Printer 3840 Quick Reference

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GENICOM Printer 3840 Quick Reference

This appendix contains basic information on the EPSON LQ 2550 and ESC/P2 Printer Emulation commands supported in those Printer types:



This appendix contains basic information on the GENICOM emulation commands supported in the printer. The GEN emulation is subset - compatible to the GENICOM Printer 3840.

Characters used in control functions appear in mono spaced type. Table 1 explains some of the conventions used.

A pair of numbers separated by a slash (/) character indicates Column/Row notation. This notation refers to the location of a character in a standard code table, such as ASCII. (example: 1/B = 1B is the hex-code for Escape)

Spaces appear between characters in sequence for clarity; they are not part of the format.

At the end of this chapter you will find a listing of the HP emulation commands classified by Hex Code and a Hex - Decimal conversion table.

Table 1 Conventions

ESC Escape (1/B), introduces an escape sequence

P_n Numeric parameter, or number of units that specify a distance or quantity pertaining to the escape sequence, control function or control string. Accepted values are 0...9999, may be preceded by + or -. If the parameter is in normal notation like "200" the programming in hex- code is according to an ASCII table. ("200" = 32,30,30 in hex). If the parameter must be programmed in hex-code, the notation is with a slash. (1/A = 1A in hex-code)

Par To specify different parameters in an ESC sequence. Accepted values are numbers 0...9 and ASCII characters.

SP Is standing for Space (hex 20)

Table 2: Control Codes

Escape Sequence	Mnemonic	Function
0/0	NUL	Nul
0/8	BS	Backspace
0/9	HT	Horizontal Tab
0/A	LF	Line Feed
0/B	VT	Vertical Tab
0/C	FF	Form Feed
0/D	CR	Carriage Return
1/1	DC1	XON
1/3	DC3	XOFF
1/B	ESC	Escape
2/0	SP	Space
7/F	DEL	Delete

Table 3: Special Code Sequences

Escape Sequence	Mnemonic	Function
ESC c		Reset to Initial State
ESC] ESC \		Display Message (ignored)
ESC [0 ; 1 SP ~		Select Emulation GENICOM ANSI (ignored)
ESC [2 q		Graphic Resolution (ignored)
ESC [P1 p		Select Paper Path P1 = 10 : Tractor Lower P1 = 12 : Tractor Upper
ESC [P1 ; P2 SP {		Move to Top Of Form and CUT Command P1 = 1 : P2 = 1 : If the vertical position is not at top-of-form, then a form feed is executed. The paper is advanced to the cut position and cut. The horizontal position following a cut is the left margin position.

Table 4: Vertical Form Handling

Escape Sequence	Mnemonic	Function
ESC [P1 d	VPA	<p>Vertical Position Absolute</p> <p>Moves the current print position to P1 decipoints from top of the form.</p> <p>P1 = increments in decipoints (1/720")</p>
ESC [P1 ; P2 f		<p>Vertical and Horizontal Absolute Position</p> <p>Moves the current print position to P1 decipoints from the top of form and P2 decipoints from the left margin. Max vertical position is 22 inch.</p>
ESC [P1 ; P2 ; P3 r		<p>Forms Set Up</p> <p>Sets top of form and sets form length, as well as top and bottom margins, in decipoints.</p> <p>P1 = form length in decipoints (1/720")</p> <p>P2 = top margin in decipoints (1/720")</p> <p>P3 = bottom margin in decipoints (1/720")</p>
ESC J		<p>Set Vertical Tab At Current Position</p>
ESC [P1 g		<p>Clear Tabs</p> <p>P = 0 : clear horizontal tab at current position</p> <p>P = 1 : clear vertical tab at current position</p> <p>P = 3 : clear all horizontal tabs</p> <p>P = 4 : clear all vertical tabs</p>

Table 5: Horizontal Form Handling

Escape Sequence	Mnemonic	Function
ESC [p1 ; p2 SP G		Set Line / Character Spacing Sets the vertical and horizontal pitch in decipoints. P1 = line spacing P2 = character spacing Unspecified parameters remain at their current values.
ESC H		Set Horizontal Tab At Current Position

Table 6: Font Selection, National Version and Code Table Handling

Escape Sequence	Mnemonic	Function
ESC [P1 x		Select National Character Sets P1 = 1 : National Char. Set GERMAN P1 = 8591 : ISO 8859-1
ESC [P1 ; P2 SP B	GSM	Graphic Size Modification P1 : height P2 : width Range: 100, 200 .. 800 The argument units of the parameters P1 and P2 are percentages of the vertical and horizontal dimensions of the current font.
ESC K	PLD	Subscript Printing
ESC L ESC [P1 ; Pn.. m	PLU SGR	Superscript Printing Select Graphics Rendition P = 0 : reset renditions (default) P = 1 : bold P = 3 : italics P = 4 : underline P = 9 : crossed out or strike through P = 10 : italic OFF (GOTHIC DP) P = 20 . double width P = 21 : double underline P = 22 : cancel bold P = 23 : cancel italics P = 24 : cancel underline P = 29 : cancel crossed out P = 53 : over- lined P = 55 : cancel overlined

Table 7: Large Character Printing

Escape Sequence	Mnemonic	Function
ESC [1		Non- rotatable Oversized Character Print
ESC [0		Exit Rotatable Oversized Character Print
ESC [P1 ; P2 SP B	GSM	Graphic Size Modification P1 : height P2 : width Range: 100, 200 .. 800 The argument units of the parameters P1 and P2 are percentages of the vertical and horizontal dimensions of the current font.

Table 8: GEN Barcode Printing

Escape Sequence	Mnemonic	Function
ESC [P1 ; P2 ; P3 ; ... ; P12 }		Barcode Type Selection P1 = 0: Interleaved 2 of 5 (default) P1 = 16: Code 128 (A, B, and C) P2 = : Height (P2 x 1/12 inch) P3 = 0: Human Readable Enable OFF P4 = : Narrow Bar Width (1/120 inch) hor. P5 = : Wide Bar Width (1/120 inch) hor. P6 = : Narrow Space Width (1/120 inch) hor. P7 = : Wide Space Width (1/120 inch) hor. P8 = : Intercharacter Gap (1/120 inch) hor. P9 = 0: No Rotation (fixed) P10 = 0: Horiz. Resolution 60 dpi (ignored) 1: Horiz. Resolution 120 dpi (ignored) P11 = 0: Check Character Enable (OFF.) P12 = 0: Human Readable Font (OFF)
ESC [P1 t		Set Special Mode (Barcode ON/OFF) P1 = 0: barcode mode off P1 = 3: barcode mode on

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Hex Code	Format	Page
0/0	Nul	2
0/8	Backspace	2
0/9	Horizontal Tab	2
0/A	Line Feed	2
0/B	Vertical Tab	2
0/C	Form Feed	2
0/D	Carriage Return	2
1/1	XON	2
1/3	XOFF	2
1/B	Escape	2
2/0	Space	2
7/F	Delete	2
ESC c	Reset to Initial State	3
ESC] ESC \	Display Message (ignored)	3
ESC [0 ; 1 SP ~	Select Emulation GENICOM ANSI (ignored)	3
ESC [2 q	Graphic Resolution (ignored)	3
ESC [P1 p	Select Paper Path	3
ESC [P1 ; P2 SP {	Move to Top Of Form and CUT Command	3
ESC [P1 d	Vertical Position Absolute	4
ESC [P1 ; P2 f	Vertical and Horizontal Absolute Position	4
ESC [P1 ; P2 ; P3 r	Forms Set Up	4
ESC J	Set Vertical Tab At Current Position	4
ESC [P1 g	Clear Tabs	4
ESC [p1 ; p2 SP G	Set Line / Character Spacing	5
ESC H	Set Horizontal Tab At Current Position	5
ESC [P1 x	Select National Character Sets	6
ESC [P1 ; P2 SP B	Graphic Size Modification	6
ESC K	Subscript Printing	6
ESC L	Superscript Printing	6
ESC [1	Non- rotatable Oversized Character Print	7
ESC [0	Exit Rotatable Oversized Character Print	7
ESC [P1 ; P2 SP B	Graphic Size Modification	7
ESC [P1 ; P2 ; P3 ; ... ; P12 }	Barcode Type Selection	8
ESC [P1 t	Set Special Mode (Barcode ON/OFF)	8

Hex - Decimal Conversion Table

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
1	1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
2	2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
3	3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
4	4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
5	5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
6	6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
7	7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
8	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
9	9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
A	10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
B	11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
C	12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
D	13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
E	14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
F	15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255