

IBM CONTROL CODES

DECIMAL	HEX	SYMBOL	FUNCTION
7 135	(07) (87)	BELL	Sound buzzer for 1 second
27 7	(1B) (07)	ESC	Same as BEL
27 135	(1B) (87)		
8 136	(08) (88)	BS	Move 1 character position to the left
27 8	(1B) (08)	ESC	Same as BS
27 8	(1B) (88)	BS	
9 137	(09) (89)	HT	Move to next horizontal tab position
27 9	(1B) (09)	ESC	Same as HT
27 137	(1B) (89)	HT	
10 138	(0A) (8A)	LF	Print and Line Feed according to latched info with or without CR (DIP switch 3)
27 10	(1B) (0A)	ESC	Same as LF
27 138	(1B) (8A)	LF	
11 139	(0B) (8B)	VT	Same as LF
27 11	(1B) (0B)	ESC	Same as LF
27 139	(1B) (8B)	VT	
12 140	(0C) (8C)	FF	Form Feed after printing
27 12	(1B) (0C)	ESC	Same as FF
		FF	

27 140		(1B) (8C)		
13 141	or	(0D) (8D)	CR	Printing and Carriage Return with or without Line Feed (DIP switch 3)
27 13		(1B) (0D)	ESC CR	Same as CR
27 141	or	(1B) (8D)		
14 142	or	(0E) (8E)	SO	Printing and Double-Width Mode designation (Print command terminates this mode)
27 14		(1B) (0E)	ESC	Same as SO
27 142	or	(1B) (8E)		
15 143	or	(0F) (8F)	SI	Printing and Condensed Mode designation
27 15		(1B) (0F)	ESC SI	Same as SI
27 143	or	(1B) (8F)		
18 146	or	(12) (92)	DC2	Printing and termination of Condensed mode and Compressed Mode
27 18		(1B) (12)	ESC DC2	Same as DC2
27 146	or	(1B) (92)		
20 148	or	(14) (94)	DC4	Double-Width Mode termination
27 20		(1B) (14)	ESC DC4	Same as DC4
27 148	or	(1B) (94)		
24 152	or	(18) (98)	CAN	Clear all print data in the internal buffer
27 24		(1B) (18)	ESC CAN	Same as CAN
27 152	or	(1B) (98)		

27 33	or (1B) (21)	ESC !	Select Tandy mode
27 45 n	(1B) (2D) n	ESC -- n	n=1 Starts Underline n=0 Ends Underline
27 48	(1B) (30)	ESC 0	Line Feed pitch is set to 1/8"
27 49	(1B) (31)	ESC 1	Line Feed pitch is set to 7/72"
27 50	(1B) (32)	ESC 2	Perform ESC-A or set Line Feed pitch to 1/6"
27 51 n	(1B) (33) n	ESC 3 n	Set Line Feed pitch to n/216" 0 < n < 255
27 52	(1B) (34)	ESC 4	Current position is set as top-of-form
27 53 n	(1B) (35) n	ESC 5 n	Set Automatic Line Feed n=1: Carriage Return and Line Feed n=0: Carriage Return only
27 54	(1B) (36)	ESC 6	Select Character Set 2
27 55	(1B) (37)	ESC 7	Select Character Set 1
27 56	(1B) (38)	ESC 8	Ignore paper out
27 57	(1B) (39)	ESC 9	Cancel ESC-8
27 58	(1B) (3A)	ESC :	Select Compressed Character (12 CPI)
27 60	(1B) (3C)	ESC <	Move print head to home position
27 65 n	(1B) (41) n	ESC A n	Set Line Feed pitch to n/72" when ESC-2 is input 0 < n < 8
27 67 n	(1B) (43) n	ESC C n	Specify page length in line units with n ranging from 1 to 127
27 67 0	(1B) (43) (00)	ESC C NULL	Set page length in inch units with m ranging from 1 to 22

m	m	m	
27 68 n1,...nk 0	(1B) (44) n1,...nk (00)	ESC D n1,...nk NULL	Horizontal Tab position setting 1 < K < 28, 1 < n < 80 or 137
27 69	(1B) (45)	ESC E	Select Bold Character Mode
27 70	(1B) (46)	ESC F	End Bold Character Mode
27 71	(1B) (47)	ESC G	Select Double-Strike Character Mode
27 72	(1B) (48)	ESC H	End Double-Strike Character Mode
27 73 n	(1B) (49)	ESC I n	n = 1 selects standard font and n = 2 or 3 selects NLQ font
27 74 n	(1B) (4A)	ESC J n	Perform n/216" Line Feed
27 75 n1 n2...,D1...DK	(1B) (4B)	ESC K n1 n2 D1.DK	Select 60 DPI (dot/inch) Bit Image Mode K = n1 (LSB) + 256 x n2 (MSB)
27 76 n1 n1 D1...DK	(1B) (4D)	ESC L n1 n2 D1.DK	Select 120 DPI Bit Image, Half Speed K = n1 + 256 x n2
27 78 n	(1B) (4E)	ESC N n	Set skip over perforation in line feed unit 1 < n < 127
27 79	(1B) (4F)	ESC O	End skip over perforation
27 80 n	(1B) (50)	ESC P n	Proportional character mode designation n = 1 : ON, n = 0 : OFF
27 82	(1B) (52)	ESC R	Set horizontal tabs at every 8th character column
27 83 n	(1B) (53)	ESC S n	n = 1 selects subscript n = 0 selects superscript
27 84	(1B) (54)	ESC T	End Subscript and Superscript
27	(1B)	ESC	n = 1 selects Unidirectional print

85 n	(55)	U n	n = 0 selects Bidirectional print
27 87 n	(1B) (57)	ESC W n	n = 1 selects continuous Double-Width Mode n = 0 cancels continuous Double-Width Mode
27 88 m n	(1B) (58)	ESC X m n	Set left and right margins in present character columns. Left margin is specified by m and right margin, n. $1 < m < n$ maximum character column
27 89 n1 n2 D1...DK	(1B) (59)	ESC Y n1 n2 D1,DK	Select 120 DPI Bit Image, Normal Speed $K = n1 \text{ (LSB)} + n2 \text{ (MSB)} \times 256$ Horizontally aligned dots cannot be printed
27 90 n1 n2 D1...DK	(1B) (5A)	ESC Z n1n2D1...DK	Select 240 DPI Bit Image $K = n1 \text{ (LSB)} + n2 \text{ (MSB)} \times 256$
27 93	(1B) (5D)	ESC]	1/6" Reverse Line Feed
27 94 n	(1B) (5E)	ESC /\n	Print characters of codes 3,4,5,6,19,20 & 21 specified by n
27 100 n1 n2	(1B) (64)	ESC d n1 n2	Move print position toward right by $1/120 \times (n1 + n2 \times 256)$ inches. If exceeding right margin, this command is ignored.
27 101 n1 n2	(1B) (65)	ESC c n1 n2	Move print position toward left by $1/120 \times (n1 + n2 \times 256)$ inches. Ignored if exceeds left margin.

IGNORED OR UNDEFINED CODES

Codes that are unusable or undefined in a given print mode are either ignored or printed with the symbol which represents an invalid code.

There are several reasons a code can be unusable in a certain mode. Redundant codes that do not change the current Printer status are usually ignored. For example, if the Printer is in DP mode, sending a CHR\$(19) (used to enter DP mode) is useless. And there are many ASCII control codes in the range 0 to 31 that the DMP-133 simply does not recognize. ASCII 0, for example, is not used in any of the 3 print codes.

The following table summarizes the undefined print codes.

TABLE 19. DMP-133 IGNORED CONTROL CODES

ALL MODES

- * Out of range on repeat sequence.
- * Out of range on POS sequence.

* Redundant codes that do not change the current Printer status.

DP MODE: 0, 1, 19, 30, 127, 255

WP MODE: 0, 1, 20, 30, 127, 255

GRAPHICS MODE: All codes in the range 0-127 are ignored, except (7), (10), (12), (13), (27, 14), (27, 15), (27 16 n1 n2), (27, 21), (27 22), (27 26), (27 33), (27 50), (27 51), (27 52 n), (27 57), (27 64 n), (27 72 n), (28 n1 n2), and (30).

Unprintable repeat sequence data n2 is also ignored.

CODES PRINTED AS X

IN DP AND WP MODES:

* All codes from 0-31 and 128-159, except the active function codes of the above ignored codes.

* Unprintable repeat data n2.

(smm 07/26/93)

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