

IGNORED OR UNDEFINED CODES

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

There are several reasons a code might be unusable in a certain mode. Redundant codes that do not change the current printer status are usually ignored. For example, if the DMP-440 is in DP mode, sending a CHR\$(19) (used to enter DP mode) is ignored. There are many ASCII control codes in the range 0 to 31 that the DMP-440 does not recognize. ASCII 0, for example, is not used in any of the three print modes.

The following table summarizes the undefined print codes.

DMP-440 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

GRAPHIC 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 33), (27 50), (27 51), (27 52 n), (27 57), (27 64 n), (27 72 n), (27 n1 n2), (30). Unprintable repeat sequence data n2 is also ignored.

CODES PRINTED AS X

IN DP AND WP MODES:

- * All codes 0-31 and 128-159, except the active function codes or the above ignored codes.
- * Unprintable repeat data n2.

TANDY CONTROL CODES

Code Dec. Hex	Symbol	DP Mode	WP Mode	BI Mode	Remarks
0 (00) 1 (01)	NUL SOH	Ignored	Ignored	Ignored	
7 (07)	BEL	Sound buzzer	Sound buzzer	Sound buzzer	
8 (08) n	BS n	Dot column backspace n:dot number	Dot column backspace n:dot number	Ignored Receive n as character data	1<n<255 - -
10 (0A) or or	LF	Execute LF according to	1/6" LF 1/12" in	7/72" LF Receive 138	

138	(8A)		latched information	Micro font	as a print data	
12	(0C)	FF	Form Feed	Form Feed	Form Feed	Page length is selectable
13 or 141	(0D) or (8D)	CR	Carriage Return only or plus Line Feed	Carriage Return only or plus Line Feed	Carriage Return only or plus Line Feed	DIP switch selects CR or or CR+LF.
14	(0E)	SO	End Underline	End Underline	Ignored	
15	(0F)	SI	Start Underline	Start Underline	Ignored Underline	
18	(12)	DC2	Select Graphics Mode	Select Graphics Mode	Ignored	
19	(13)	DC3	Ignored	Select DP Mode	Ignored	
20	(14)	DC4	Select WP Mode	Ignored	Ignored	
27 n	(1B) n	ESC n	Microspacing	Microspacing	Ignored	2nd byte is dot column number. 1<n<9 - -
27 10	(1B) (0A)	ESC LF	Set 1/6" Reverse LF	Perform 1/6" Reverse LF	Ignored	
27 14	(1B) (0E)	ESC SO	Start Elongation	Start Elongation	Start Elongation	
27 15	(1B) (0F)	ESC SI	End Elongation	End Elongation	End Elongation	
27 16 n1 n2	(1B) (10) n1 n2	ESC POS n1 n2	Positioning	Positioning	Positioning	n1n2 indicate position from home position.
27 17	(1B) (11)	ESC DC1	Select NLQ Proportional Character	Select NLQ Proportional Character	Ignored	
27 18	(1B) (12)	ESC DC2	Select NLQ Standard Character	Select NLQ Standard Character	Ignored	10 CPI
27 19	(1B) (13)	ESC DC3	Select Standard Character	Select Standard Character	Ignored	10 CPI
27	(1B)	ESC	Select	Select	Ignored	17 CPI

20	(14)	DC4	Condensed Character	Condensed Character		
27 21	(1B) (15)	ESC NAK	Set only CR for CR Code	Set only CR for CR Code	Set only CR for CR Code	Reset DIP Switch 1-7.
27 22	(1B) (16)	ESC SYN	Set CR and LF for CR Code	Set CR and LF for CR Code	Set CR and LF for CR Code	Reset DIP Switch 1-7.
27 23	(1B) (17)	ESC ETB	Select Standard Compressed Character	Select Standard Compressed Character	Ignored	12 CPI
27 28	(1B) (1C)	ESC FS	Set 1/2 LF	Perform 1/2 LF	Ignored	1/12 Inch
27 29	(1B) (1D)	ESC GS	Select NLQ Compressed Character	Select NLQ Compressed Character	Ignored	12 CPI
27 30	(1B) (1E)	ESC RS	Select 1/12" Reverse LF	Perform 1/12" Reverse LF	Ignored	
27 31	(1B) (1F)	ESC US	Select Bold Character	Select Bold Character	Ignored	Invalid in condensed, microfont, and superscript
27 32	(1B) (20)	ESC SP	End Bold Character	End Bold Character	Ignored	
27 33	(1B) (21)	ESC !	Select IBM Mode	Select IBM Mode	Select IBM Mode	
27 38	(1B) (26)	ESC &	Load Downloading font	Load Downloading font	Ignored	
27 47	(1B) (2F)	ESC /	Select Compressed Proportional	Select Compressed Proportional	Ignored	
27 50	(1B) (32)	ESC 2	Perform 1/12 LF	Perform 1/12 LF	Perform 1/12 LF	1/72 Inch
27 51	(1B) (33)	ESC 3	Perform 1/36 LF	Perform 1/36 LF	Perform 1/36 LF	1/216 Inch
27 52 n	(1B) (34) n	ESC 4 n	Specify Page Length	Specify Page Length	Specify Page Length	nx1/6 Inch
27 54	(1B) (36)	ESC 6	Set 1 LF	Perform 1 LF	Ignored	1/6 Inch
27 56	(1B) (38)	ESC 8	Set 3/4 LF	Perform 3/4 LF	Ignored	1/8 Inch

27 57	(1B) (39)	ESC 9	Perform 1/144" LF	Perform 1/144" LF	Perform 1/144" LF	
27 58	(1B) (3A)	ESC :	Select IBM Character Set 2	Select IBM Character Set 2	Ignored	
27 59	(1B) (3B)	ESC ;	Select Tandy Character Set	Select Tandy Character Set	Ignored	
27 61 n	(1B) (3D) n	ESC = n	Font Assign Correspondence 10 Character n:Font Number	Font Assign Correspondence 10 Character n:Font Number	Ignored	
27 62 n	(1B) (3E) n	ESC > n	Font Assign Correspondence 12 Character n:Font Number	Font Assign Correspondence 12 Character n:Font Number	Ignored	
27 63 n	(1B) (3F) n	ESC ? n	Font Assign Proportional Character n: Font Number	Font Assign Proportional Character n: Font Number	Ignored	
27 64 n	(1B) (40) n	ESC @ n	Set n/144" LF	Perform n/144" LF	Perform n/144" LF	
27 66 n	(1B) (42) n	ESC B n	Select Italic Character	Select Italic Character	Ignored	n=1: Start Italic n=0: End Italic
27 72 n	(1B) (48) n	ESC H n	Set n/6"Skip Perforation	Set n/6"Skip Perforation	Set n/6"Skip Perforation	n=0: End Skip Perforation
27 73 n1 n2	(1B) (49) n1 n2	ESC I n1 n2	Select High Resolution Bit Image	Select High Resolution Bit Image	Ignored	
27 77	(1B) (4D)	ESC M	Select Micro Font	Select Micro Font	Ignored	1/2LF(1//12") is set.
27 81 n	(1B) (51) n	ESC Q n	Set Left Margin	Set Left Margin	Ignored	Set at position (n x character width).
27 82 n	(1B) (52) n	ESC R n	Set Right Margin	Set Right Margin	Ignored	Set at position (n x character width).
27 83 n	(1B) (53) n	ESC S n	n=0 Set Superscript n=1 Set	n=0 Set Superscript n=1 Set	Ignored	ESC-X ends this selection.

			Subscript	Subscript		
27 85	(1B) (55)	ESC U	n=0 Set Uni- directional n=1 Set bi- directional	n=0 Set Uni- directional n=1 Set bi- directional	Ignored	
27 87	(1B) (57)	ESC W	Select Double Height	Select Double Height	Ignored	
27 88	(1B) (58)	ESC X	End Super- script and Subscript	End Super- script and Subscript	Ignored	
27 89 n	(1B) (59)	ESC Y n	Select Country Character	Select Country Character	Ignored	n=32--42
28 n1 n2	(1C)	FS n1 n2	Repeat Character (Undefined code is ignored.)	Repeat Character (Undefined code is ignored.)	Repeat Print Data	n1: Repeat number n2: Character or print data
30	(1E)	RS	Ignored	Ignored	End Bit Image	
127	(7F)	DEL	Ignored	Ignored	Ignored	
255	(FF)	DEL	Ignored	Ignored	Ignored	
Other undefined codes in func- tion area. 2 to 31 (02 to 1F hex.)			Print X	Print X	Ignored	
Other undefined codes in func- tion area. 128 to 159 (80 to 9F hex.)			Print X	Print X	Printing Data	

IBM CONTROL CODES

Decimal	Hex	Symbol	Function
7 135	(07) (87)	BEL	Sound buzzer for 1 second
27 7	(1B) (07)	ESC BEL	Same as BEL
27 135	(1B) (87)		
8	(08)	BS	Move 1 character position to the left

136	(88)		
27	(1B)	ESC	Same as BS
8	(08)		
27	(1B)	BS	Same as BS
136	(88)		
9	(09)	HT	Move to next horizontal tab position
137	(89)		
27	(1B)	ESC	Same as HT
9	(09)		
27	(1B)	HT	Same as HT
137	(89)		
10	(0A)	LF	Print and Line Feed according to latched information with or without Carriage Return (DIP switch 103)
138	(8A)		
27	(1B)	ESC	Same as LF
10	(0A)		
27	(1B)	LF	Same as LF
138	(8A)		
11	(0B)	VT	Same as LF
139	(8B)		
27	(1B)	ESC	Same as LF
11	(0B)		
27	(1B)	VT	Same as LF
139	(8B)		
12	(0C)	FF	Form Feed after printing
140	(8C)		
27	(1B)	ESC	Same as FF
12	(0C)		
27	(1B)	FF	Same as FF
140	(8C)		
13	(0D)	CR	Printing and Carriage Return with or without Line Feed (DIP switch 1-2)
141	(8D)		
27	(1B)	ESC	Same as CR
13	(0D)		
27	(1B)	CR	Same as CR
141	(8D)		
14	(0E)	SO	Printing and Double-Width Mode designation (print command terminates this mode)
142	(8E)		
27	(1B)		

14	(0E)	ESC SO	Same as SO
27	(1B)		
142	(8E)		
15	(0F)	SI	Printing and Condensed Mode designation
143	(8F)		
27	(1B)	ESC SI	Same as SI
15	(1B)		
27	(1B)		
143	(8F)		
18	(12)	DC2	Printing and Condensed Mode termination
146	(92)		
27	(1B)	ESC DC2	Same as DC2
18	(12)		
27	(1B)		
146	(92)		
20	(14)	DC4	Printing and Double-Width Mode termination
148	(94)		
27	(1B)	ESC DC4	Same as DC4
20	(14)		
27	(1B)		
148	(94)		
27	(1B)	ESC	Select TANDY Mode
33	(21)	!	
24	(18)	CAN	Clear all print data in the internal buffer
152	(98)		
27	(1B)	ESC CAN	Same as CAN
24	(18)		
27	(1B)		
152	(98)		
27	(1B)	ESC	n=1 Starts Underline
45	(2D)	—	n=0 Ends Underline
n	n	n	
27	(1B)	ESC	Line Feed pitch is set to 1/8 inch
48	(30)	0	
27	(1B)	ESC	Line Feed pitch is set to 7/72 inch
49	(31)	1	
27	(1B)	ESC	Perform ESC-A or set Line Feed pitch to 1/6 inch
50	(32)	2	

27	(1B)	ESC	Set Line Feed pitch to n/216 inch
51	(33)	3	0<n<255
n	n	n	- -
27	(1B)	ESC	Current position is set as top-of-form
52	(34)	4	
27	(1B)	ESC	Print and Carriage Return with or without Line Feed
53	(35)	5	
n	n	n	
27	(1B)	ESC	Select Character Set 2
54	(36)	6	
27	(1B)	ESC	Select Character Set 1
55	(37)	7	
27	(1B)	ESC	Ignore paper out
56	(38)	8	
27	(1B)	ESC	Cancel ESC-8
57	(39)	9	
27	(1B)	ESC	Select 12 CPI
58	(3A)	:	
27	(1B)	ESC	Move print head to home position
60	(3C)	<	
27	(1B)	ESC	Set Line Feed pitch to n/72 inch when ESC-2 is input.
65	(41)	A	0<n<85
n	n	n	- -
27	(1B)	ESC	Specify page length in line units with n ranging from
67	(43)	C	1 to 127
n	n	n	
27	(1B)	ESC	Set page length in inch units with m ranging from
67	(43)	C	1 to 22
0	(00)	NULL	
m		m	
27	(1B)	ESC	Horizontal Tab position setting
68	(44)	D	1<K<28, 1<n<80 or 137
n1 n2...nk		n1n2...nk	- - - -
0	(00)	NULL	
27	(1B)	ESC	Print and set Bold Character Mode
69	(45)	E	
27	(1B)	ESC	End Bold Character Mode
70	(46)	F	
27	(1B)	ESC	Print and set Double-Strike Character Mode
71	(47)	G	
27	(1B)	ESC	End Double-Strike Character Mode

72	(48)	H	
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	Set Line Feed pitch to n/216 inch
27 75 n1n2D1...Dk	(1B) (4B)	ESC K n1 n2 D1...Dk	Select 60 DPI (dot/inch) Bit Image K=n1 (LSB) +256 x n2 (MSG)
27 76 n1n2 D1...Dk	(1B) (4C)	ESC L n1 n2 D1...Dk	Select 120 DPI Bit Image, Half Speed K=n1 + 256 x n2
27 77	(1B) (4D)	ESC M	Select 10 CPI character mode
27 78 n	(1B) (4E)	ESC N n	Set skip over perforation in line feed unit 1<n<127 - -
27 79	(1B) (4F)	ESC 0	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 85 n	(1B) (55)	ESC U n	n = 1 selects Unidirectional print N = 0 selects Bidirectional print
27 87 n	(1B) (57)	ESC W n	n = 1 selects Double-Width Mode n = 0 cancels Double-Width Mode
27 89 n1 n2 D1...Dk	(1B) (59)	ESC Y n1 n2 D1...Dk	Select 120 DPI Bit Image, Normal Speed K = n1 (LSB) + n2 (MSB) x 256 Horizontally aligned dots cannot be printed.

27	(1B)	ESC	Select 240 DPI Bit Image
90	(5A)	Z	$K = n1 \text{ (LSB)} + n2 \text{ (MSB)} \times 256$
n1 n2 D1...Dk		n1 n2 D1...Dk	
27	(1B)	ESC	Perform printing and 1/6 inch Reverse Line Feed
93	(5D)]	
27	(1B)	ESC	Print characters of codes 3, 4, 5, 6, 19, 20 and 21
94	(5E)	^	specified by n
n		n	

(abo-07/26/93)