TANDY CONTROL CODES

CODE	HEX	SYMBOL	DP MODE	WP MODE	BI MODE	REMARKS
0 1	(00) (01)	NUL SOH	Ignored	Ignored	Ignored	
7	(07)	BEL	Sound buzzer	Sound buzzer	Sound buzzer	
8 n	(08)	BS n	Dot column backspace n:dot number	Dot column backspace n:dot number	Ignored receives n as character data	1<n<255
10 or 138	(0A) or (8A)	LF	Executes LF according to latched information	1/6" LF 1/12" LF in Micro font	7/72" LF Receives 138as 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 CR or CR + LF
14	(0E)	SO	End Underline	End Underline	Ignored	
15	(0E)	SI	Start Underline	Start Underline	Ignored	
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)	ESC n	Microspacing	Microspacing	Ignored	2nd byte is dot column # 1 < n < 9
27 10	(1B) (0A)	ESC LF	Set 1/6" Reverse Line Feed	Perform 1/6" Reverse Line Feed	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	(1B) (10)	ESC POS				n1n2 indicate position from

n1 n2		n1 n2	Positioning	Positioning	Positioning	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 10 CPI Character	Select NLQ 10 CCPI Character	Ignored	10 CPI
27 19	(1B) (13)	ESC DC3	Select Standard 10 CPI Character	Select Standard 10 CPI Character	Ignored	10 CPI
27 20	(1B) (15)	ESC DC4	Select Condensed Character	Select Condensed Character	Ignored	17 CPI
27 21	(1B) (16)	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 26	(1B) (1A)	ESC SUB	Perform 1/8"LF	Perform 1/8"LF	Perform 1/8"LF	1/48"
27 28	(1B) (1C)	ESC FS	Set 1/2" LF	Set 1.2" LF	Ignored	1/12"
27 29	(1B) (1D)	ESC GS	Select NLQ Compressed Character	Select NLQ Compressed Character	Ignored	12 CPI
27 30	(1B)	ESC	Select 1/12" Reverse LF	Perform 1/12" Reverse LF	Ignored	
27 31	(1B)	ESC	Select Bold Character	Select Bold Character	Ignored	Invalid in condensed, microfont, & superscript
27 32	(1B) (20)	ESC SP	End Bold Character	End Bold Character	Ignored	

27	(1B)	ESC	Select IBM Mode	Select IBM Mode	Select IBM Mode	
33	(21)	!				
27	(1B)	ESC	Perform 1/12" LF	Perform 1/12" LF	Perform 1/12" LF	1/72"
50	(32)	2				
27	(1B)	ESC	Perform 1/36" LF	Perform 1/36" LF	Perform 1/36" LF	1/216"
51	(33)	3				
27 52 n	(1B) (34)	ESC 4 n	Specify Page Length	Specify Page Length	Specify Page Length	n x 1/6"
27 54	(1B) (36)	ESC 6	Set 1 LF	Ignored	Ignored	1/6"
27 56	(1B) (38)	ESC 8	Set 3/4" LF	Perform 3/4" LF	Ignored	1/8"
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 64 n	(1B) (40)	ESC @ n	Set n/144" LF	Perform n/144" LF	Perform n/144" LF	
27 66 n	(1B) (42)	ESC B n	Select Italic Character n=48 ends Italic w/Mod I	Select Italic Character	Ignored	n=1: Starts Italics n=0: Ends Italics
27 72 n	(1B) (48)	ESC H n	Set n/6" Skip Perforation	Set n/6" Skip Perforation	Set n/6" Skip Perforation	n=0: Ends Skip Perforation
27 77	(1B) (4D)	ESC M	Select Microfont	Select Microfont	Ignored	1/2" LF is set
27 81 n	(1B) (51)	ESC Q n	Set Left Margin	Set Left Margin	Ignored	Set at Position(nXcharacter Width)
27 82 n	(1B) (52)	ESC R n	Set Right Margin	Set Right Margin	Ignored	Set at Position(nXcharacter Width)

DECIMAL	HEX	SYMBOL				
27 83 n	(1B) (53)	ESC S n	n=0 Set Superscript n=1 Sets Sub- script	n=0 Set Superscript n=1 Sets Sub- script	Ignored	ESC-X ends this selection
27 85 n	(1B) (55)	ESC U n	n=0 Sets Uni-directional n=1 Sets Bi-directional	n=0 Sets Uni-directional n=1 Sets Bi-directional	Ignored	
27 88	(1B) (58)	ESC X	End Superscript and Subscript	End Superscript 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 # n2: Char. 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 function area,2 to 31 (02 to 1F hex)			Print X	Print X	Ignored	
Other undefined codes in function 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)	BELL	Sound buzzer for 1 second
27 7	(1B) (07)	ESC	Same as BEL
27 135	(1B) (87)	BEL	
8 136	(08) (88)	BS	Move 1 character position to the left
27 8	(1B) (08)	ESC	Same as BS

27	(1B)	BS	
8	(88)		
9	(09)	HT	Move to next horizontal tab position
137	(89)		
27	(1B)	ESC	Same as HT
9	(09)		
27	(1B)	HT	
137	(89)		
10	(0A)	LF	Print and Line Feed according to latched info
138	(8A)		with or without CR (DIP switch 1-3)
27	(1B)	ESC	Same as LF
10	(0A)		
27	(1B)	LF	
138	(8A)		
11	(0B)	VT	Same as LF
139	(8B)		
27	(1B)	ESC	Same as LF
11	(0B)		
27	(1B)	VT	
139	(8B)		
12	(0C)	FF	Form Feed after printing
140	(8C)		
27	(1B)	ESC	Same as FF
12	(0C)	FF	
27	(1B)		
140	(8C)		
13	(0D)	CR	Printing and Carriage Return with or without
141	(8D)		Line Feed (DIP switch 1-2)
27	(1B)	ESC	
13	(0D)	CR	Same as CR
27	(1B)		
141	(8D)		
14	(0E)	SO	Printing and Double-Width Mode designation
142	(8E)		(print command terminates this mode)
27	(1B)	ESC	
14	(0E)		Same as SO
27	(1B)		
142	(8E)		

15 143	(0F) (8F)	SI	Printing and Condensed Mode designation
27 15	(1B) (0F)	ESC SI	Same as SI
27 143	(1B) (8F)		
18 146	(12) (92)	DC2	Printing and termination of Condensed Mode and Compressed Mode
27 18	(1B) (12)	ESC DC2	Same as DC2
27 146	(1B) (92)		
20 148	(14) (94)	DC4	Printing and Double-Width Mode termination
27 20	(1B) (14)	ESC DC4	Same as DC4
27 148	(1B) (94)		
27 33	(1B) (21)	ESC !	Select TANDY Mode
24	(18)	CAN	Clear all print data in the internal buffer
152	(98)		
27 24	(1B) (18)	ESC CAN	Same as CAN
27 152	(1B) (98)		
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	Print and Carriage Return with or without Line Feed
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 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 < 85
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 m	(1B) (43) (00) m	ESC C NULL m	Set page length in inch units with m ranging from 1 to 22
27 68 n1 n2...nK 0	(1B) (44) (00)	ESC D n1 n2...nK NULL	Horizontal Tab position setting 1 < K < 28, 1 < n < 80 or 137
27 69	(1B) (45)	ESC E	Print and set Bold Character Mode
27 70	(1B) (46)	ESC F	End Bold Character Mode
27 71	(1B) (47)	ESC G	Print and set Double-Strike Character Mode
27 72	(1B) (48)	ESC H	End Double-Strike Character Mode
27	(1B)	ESC	n = 1 selects standard font and n = 2 or 3

73 n	(49)	I n		selects NLQ font
27 74 n	(1B) (4A)	ESC J n		Set Line Feed pitch to n/216"
27 75 n1 n2..,D1...DK	(1B) (4B)	ESC K n1 n2 D1.DK		Select 60 DPI (dot/inch) Bit Image 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 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 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 (LSB) + n2 (MSB) x 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 (LSB) + n2 (MSB) x 256

| 27 | (1B) | ESC | Perform printing and 1/6" Reverse Line Feed |
| 93 | (5D) |] | |

27	(1B)	ESC	Print characters of codes 3,4,5,6,19,20 & 21
94	(5E)	/\	specified by n
n		n	

27	(1B)	ESC	Move print position toward right by 1/120 x
100	(64)	d	(Ln + Hn x 256) inches. If exceeding right
Ln		Ln	margin, this command is ignored.
Hn		Hn	

27	(1B)	ESC	Move print position toward left by 1/120 x
101	(65)	c	(Ln + Hn x 256) inches. Ignored if exceeds
Ln		Ln	left margin.
Hn		Hn	

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-132 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-132 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.