

| DEC.    | HEX.    | FUNCTION   |
|---------|---------|--|
| 08 n    | 08 n    | Backspace n/120" (1 < n < 255)                                       |
| 10      | 0A      | Line Feed *  |
| 12      | 0C      | Form Feed  |
| 13      | 0D      | Carriage Return with Line Feed **                                    |
| 14      | 0E      | End Underline  |
| 15      | 0F      | Start Underline  |
| 32      | 20      | Space  |
| 27 01   | 1B 01   | 1/120" Space   |
| 27 02   | 1B 02   | 2/120" Space   |
| 27 03   | 1B 03   | 3/120" Space   |
| 27 04   | 1B 04   | 4/120" Space   |
| 27 05   | 1B 05   | 5/120" Space   |
| 27 06   | 1B 06   | 6/120" Space   |
| 27 07   | 1B 07   | 7/120" Space   |
| 27 08   | 1B 08   | 8/120" Space   |
| 27 09   | 1B 09   | 9/120" Space   |
| 27 10   | 1B 0A   | Reverse Line Feed *  |
| 27 14   | 1B 0E   | 12 Pitch Select  |
| 27 15   | 1B 0F   | 10 Pitch Select  |
| 27 17   | 1B 11   | Proportional Space Select  |
| 27 21   | 1B 15   | Start Carriage Return Only **  |
| 27 22   | 1B 16   | End Carriage Return Only **  |
| 27 24   | 1B 18   | Enters External Program Mode ***                                     |
| 27 25   | 1B 19   | Exits External Program Mode ***                                      |
| 27 26   | 1B 1A   | 1/48" Line Feed  |
| 27 28   | 1B 1C   | Half Line Feed   |
| 27 30   | 1B 1E   | Reverse Half Line Feed   |
| 27 31   | 1B 1F   | Bold Print On  |
| '7 32   | 1B 20   | Bold Print Off   |
| 27 33   | 1B 21   | Return to IBM Mode   |
| 27 52 n | 1B 34 n | Form Feed Length Set n/6" (0 < n < 255)<br>(n=0 or 1 is set to 2/6") |
| 27 56   | 1B 38   | 1/8" Line Feed   |

\* Line feeds may be sent from machine-language programs, but not from BASIC's LPRINT statement. See the Technical Information section of your computer owner's manual for details on sending line feeds.

\*\* Normally, CHR\$(13) causes a carriage return plus a line feed. However, after a CHR\$(27;CHR\$(21) is sent or DIP switch 5 is set to ON, a CHR\$(13) causes a carriage return only; CHR\$(27);CHR\$(22) causes a return to normal.

\*\*\* See EXTERNAL PROGRAM MODE section of this manual.

#### IBM CONTROL CODES

| DEC. | HEX. | ASCII | FUNCTION       |
|------|------|-------|----------------|
| 08   | 08   | BS    | Backspace      |
| 09   | 09   | HT    | Horizontal Tab |

|            |            |            |   |
|------------|------------|------------|---|
| 10         | 0A         | LF         | Line Feed   |
| 11         | 0B         | VT         | Vertical Tab (Same as Line Feed)                                  |
| 12         | 0C         | FF         | Form Feed   |
| 13         | 0D         | CR         | Carriage Return   |
| 15         | 0F         | SI         | 15 Pitch Select (Shift In)  |
| 17         | 11         | DC1        | Select Printer  |
| 18         | 12         | DC2        | 10 Pitch Select   |
| 19         | 13         | DC3        | Deselect Printer  |
| 24         | 18         | CAN        | Clear Printer Buffer  |
| 27         | 1B         | ESC        | Escape Multibyte Sequence   |
| 32         | 20         | SP         | Space   |
| 27+15      | 1B+0F      | ESC+SI     | 15 Pitch Select   |
| 27+33      | 1B+21      | ESC+!      | Enter to Tandy Mode   |
| 27+45+n    | 1B+2D+n    | ESC+ +n    | Set/Reset Underline n=0 start<br>n=1 end                          |
| 27+48      | 1B+30      | ESC+0      | 1/8" Line Feed Set  |
| 27+49      | 1B+31      | ESC+1      | 9/96" Line Feed Set   |
| 27+50      | 1B+32      | ESC+2      | Start text line spacing (ESC A)                                   |
| 27+52      | 1B+34      | ESC+4      | Set Top of Form   |
| 27+53+n    | 1B+35+n    | ESC+5+n    | If n=0 = CR only<br>If n=1 = CR + LF                              |
| 27+54      | 1B+36      | ESC+6      | Select Character Set 2  |
| 27+55      | 1B+37      | ESC+7      | Select Character Set 1  |
| 27+58      | 1B+3A      | ESC+:      | 12 Pitch Select   |
| 27+61..... | 1B+3D..... | ESC+=..... | Print Wheel Table Download  |
| 27+62+n    | 1B+3E+n    | ESC+>n     | Set HMI n/120" (0 < n < 255)                                      |
| 27+65+n    | 1B+41+n    | ESC+A+n    | Set VMI n/48" (1 < n < 255)                                       |
| 27+67+n+m  | 1B+43+n+m  | ESC+C+n+m  | Set Page Length in Lines (n) or<br>inches (m). (1<n<255) (1<m<15) |
| 27+68+n1+  | 1B+44+n1+  | ESC+D+n1+  | Set Horizontal Tab Stops  |

| ...+nn+00                        | ...+nn+00                        | ...+nn+NULL                     | (1<nn<255)   |
|----------------------------------|----------------------------------|---------------------------------|--|
| 27+80+n                          | 1B+50+n                          | ESC+P+n                         | If n=0 = End Proportional Mode<br>If n=1 = Start Proportional Mode |
| 27+81+n                          | 1B+51+n                          | ESC+Q+n                         | Deselect on Device ID  |
| 27+82                            | 1B+52                            | ESC+R                           | Reset All Tabs to Default  |
| 27+83+n                          | 1B+53+n                          | ESC+S+n                         | If n=0 = Set Superscript Mode<br>If n=1 = Set Subscript Mode       |
| 27+84                            | 1B+54                            | ESC+T                           | Reset Either Super/Subscript Mode                                  |
| 27+85+n                          | 1B+55+n                          | ESC+U+n                         | Set Bidirectional Mode or Print Direction                          |
| 27+88+n1+n2                      | 1B+58+n1+n2                      | ESC+X+n1+n2                     | Set Left and Right Margins   |
| 27+92+n+m                        | 1B+5C+n+m                        | ESC+\+n+m                       | Print all characters   |
| 27+93                            | 1B+5D                            | ESC+] ]                         | Reverse Line Feed  |
| 27+94                            | 1B+5E                            | ESC+ ^                          | Print all characters   |
| 27+104                           | 1B+68                            | ESC+h                           | Forward Half Line Feed   |
| 27+105                           | 1B+69                            | ESC+i                           | Reverse Half Line Feed   |
| 27+91+72+01+00+n                 | 1B+5B+48+01+00+n                 | ESC+[+H+c1+c2+n                 | Set Exception Action   |
| 27+91+75+01+00+n                 | 1B+5B+48+01+00+n                 | ESC+[+K+c1+c2+n                 | Set Initial Conditions   |
| 27+91+84+05+00<br>csid page flag | 1B+5B+54+05+00<br>csid page flag | ESC+[+T+c1+c2<br>csid page flag | Set Character Set Global   |
| 27+91+86+01+00+n                 | 1B+5B+56+01+00+n                 | ESC+[+V+c1+c2+n                 | Set Print Mode   |

(dte-07/27/93)