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|-------------------|
| IBM Control Codes |
|-------------------|

| DEC. | HEX. | ASCII |
|-------|-------|-------|
| 8 | 08 | |
| ----- | ----- | BS |
| 136 | 88 | |

Move 1 character position to the left.

| | | |
|--------|-------|--------|
| 27 8 | 1B 08 | |
| ----- | ----- | ESC BS |
| 27 136 | 1B 88 | |

Same as BS.

| | | |
|-------|-------|----|
| 9 | 09 | |
| ----- | ----- | HT |
| 137 | 89 | |

Move to next horizontal tab position.

| | | |
|--------|-------|--------|
| 27 9 | 1B 09 | |
| ----- | ----- | ESC HT |
| 27 137 | 1B 89 | |

Same as HT

| | | |
|-------|-------|----|
| 10 | 0A | |
| ----- | ----- | LF |
| 138 | 8A | |

Print & Line Feed according to latched information with or without Carriage Return (DIP switch 2).

| | | |
|--------|-------|--------|
| 27 10 | 1B 0A | |
| ----- | ----- | ESC LF |
| 27 138 | 1B 8A | |

Same as LF.

| | | |
|-------|-------|----|
| 11 | 0B | |
| ----- | ----- | VT |
| 139 | 8B | |

Same as LF.

| | | |
|--------|-------|--------|
| 27 11 | 1B 0B | |
| ----- | ----- | ESC VT |
| 27 139 | 1B 8B | |

Same as LF.

12 0C
----- FF
140 8C

Form Feed after printing.

27 12 1B 0C
----- ESC FF
27 140 1B 8C

Same as FF.

13 0D
----- CR
141 8D

Printing and Carriage Return with or without Line Feed (DIP switch 4).

27 13 1B 0D
----- ESC CR
27 141 1B 8D

Same as CR.

14 0E
----- SO
142 8E

Printing and Double-Width Mode designation (print command terminates this mode).

27 14 1B 0E
----- ESC SO
27 142 1B 8E

Same as SO.

15 0F
----- SI
143 8F

Printing and Condensed Mode designation.

27 15 1B 0F
----- ESC SI
27 143 1B 8F

Same as SI.

18 12
----- DC2
146 92

Printing and termination of Condensed Mode and Compressed Mode.

27 18 1B 12
----- ESC DC2

27 146 1B 92

Same as DC2.

20 14
----- DC4
148 94

Printing and Double-Width Mode termination.

27 20 1B 14
----- ESC DC4
27 148 1B 94

Same as DC4.

24 18
----- CAN
152 98

Clear all print data in the internal buffer.

27 24 1B 18
----- ESC CAN
27 152 1B 98

Same as CAN.

27 33 1B 21 ESC !

Select Tandy Mode.

27 45 n 1B 2D n ESC - n

Start/End Underline Mode.
n=1 Start Underline Mode
n=0 End Underline Mode

27 48 1B 30 ESC 0

Line Feed pitch is set to 1/8 inch.

27 49 1B 31 ESC 1

Line Feed pitch is set to 7/7/2 inch.

27 50 1B 32 ESC 2

Perform ESC-A or set Line Feed pitch to 1/6 inch.

27 51 n 1B 33 n ESC 3 n

Set Line Feed pitch to n/216 inch.
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.

n=0 CR only

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 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 inch 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 22.

| | | |
|-----------|------------|--------------|
| 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 | 1B 44 n1 | ESC D n1 |
| n2...nk 00 | n2...nk 00 | n2...nk NULL |

Horizontal Tab position setting.

1≤k≤16

1≤n≤80, 96 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 73 n | 1B 49 n | ESC I n |
|---------|---------|---------|

Select Font Type.

n=1 Standard Font

n=2 NLQ Font

n=3 NLQ Font

| | | |
|---------|---------|---------|
| 27 74 n | 1B 4A n | ESC J n |
|---------|---------|---------|

Set Line Feed pitch to n/216 inch

| | | |
|-------------|-------------|-------------|
| 27 75 n1 n2 | 1B 4B n1 n2 | ESC K n1 n2 |
| D1...Dk | D1...Dk | D1...Dk |

Select 60 DPI (dot/inch) Bit Image.

k = n1 (LSB) + 256 x n2 (MSB)

| | | |
|-------------|-------------|-------------|
| 27 76 n1 n2 | 1B 4C n1 n2 | ESC L n1 n2 |
| D1...Dk | D1...Dk | D1...Dk |

Select 120 DPI Bit Image, Half Speed.

k = n1 + 256 x n2

| | | |
|---------|---------|---------|
| 27 78 n | 1B 4E n | 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 N | 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 n | ESC S n |
|---------|---------|---------|

Select Super/Subscript.

n=0 Superscript

n=1 Subscript

| | | |
|-------|-------|-------|
| 27 84 | 1B 54 | ESC T |
|-------|-------|-------|

End Subscript/Superscript.

| | | |
|---------|---------|---------|
| 27 85 n | 1B 55 n | ESC U n |
|---------|---------|---------|

Select Print Direction.

n=0 Unidirectional Print

n=1 Bidirectional Print

| | | |
|---------|---------|---------|
| 27 87 n | 1B 57 n | ESC W n |
|---------|---------|---------|

Selects/cancels Double-width mode.

n=0 Selects Double-Width mode

n=1 Cancels Double-Width mode

| | | |
|-----------|-----------|-----------|
| 27 88 m n | 1B 58 m n | ESC X m n |
|-----------|-----------|-----------|

Set left and right margins in present character columns. Left margin is specified by m and right margin by n.

$1 \leq m \leq n$ maximum character column

| | | |
|-------------|-------------|-------------|
| 27 89 n1 n2 | 1B 59 n1 n2 | ESC Y n1 n2 |
| D1...Dk | D1...Dk | 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 | 1B 5A n1 n2 | ESC Z n1 n2 |
| D1...Dk | D1...Dk | D1...Dk |

Select 240 DPI Bit Image.

k = n1 (LSB) + n2 (MSB) x 256

| | | |
|---------|---------|---------|
| 27 94 n | 1B 5E n | ESC ^ n |
|---------|---------|---------|

Print characters of codes 3, 4, 5, 6, 19, 20 and 21 specified by n.

| | | |
|--------------|-------------|-------------|
| 27 100 n1 n2 | 1B 64 n1 n2 | ESC d n1 n2 |
|--------------|-------------|-------------|

Move print position toward right by $1/120 \times (n1+n2 \times 256)$ inches. If right margin is exceeded, this command is ignored.

| | | |
|--------------|-------------|-------------|
| 27 101 n1 n2 | 1B 55 n1 n2 | ESC e n1 n2 |
|--------------|-------------|-------------|

Move print position toward left by $1/120 \times (n1+n2 \times 256)$ inches. Ignored if it exceeds left margin.

(tlc-7/16/93)

□