

EPSON FX-850 Control Sequence Summary:

You can easily select the code set for the Epson by setting Function (DIP) Switch 1 to ON before turning on the printer.

Printer Operation/Data Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION
7	07	BEL	Sounds the built-in printer buzzer for 0.3 second.
13	0D	CR	Carriage return--tells the printer to print the current buffer contents and then do a carriage return with or without line feed (Function Switch #5,CR) A carriage return moves the print head to the left margin on the same line
17	11	DC1	Select printer--sets the printer to accept data from a computer after the DC3 command has deselected the printer
19	13	DC3	Print suppress mode--sets the printer to accept data from a computer after the DC3 command has deselected the printer
24	18	CAN	Cancel--clears all print information in the internal buffer
27 35	1B 23	ESC #	Cancels the MSB control set by the ESC = or ESC > command
27 56	1B 38	ESC 8	Disables the paper out detection
27 57	1B 39	ESC 9	Enables the paper out detection
27 60	1B 3C	ESC <	One-line unidirectional--moves the print head to the left-most position, then prints from left to right
27 61	1B 3D	ESC =	Sets the MSB (most significant bit) of all incoming data to 0
27 62	1B 3E	ESC >	Sets the MSB of all incoming data to 1
27 64	1B 40	ESC @	Initializes the printer
27 85 n	1B 55 n	ESC U n	Selects/deselects unidirectional printing n=1 unidirectional; n=0 bidirectional
27 105 n	1B 69 n	ESC i n	Selects/deselects immediate printing mode n=1 selects immediate printing mode n=0 deselects immediate printing mode

27 114 n	1B 72 n	ESC r n	Selects a print color from seven colors n=0 Black n=1 Magenta n=2 Cyan n=3 Violet n=4 Yellow n=5 Red n=6 Green
27 115 n	1B 73 n	ESC s n	Selects or deselects half speed printing n=1 selects half speed mode n=0 deselects half speed mode
127	7F	DEL	Deletes a character input just before the DEL code

Vertical Motion Control Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION
10	0A	LF	Line feed--does a line feed with or without carriage return
11	0B	VT	Vertical tab--feeds the paper to the next vertical tab stop set by the ESC / command and does a carriage return
12	0C	FF	Form feed--feeds paper to top of next page after printing
27 47 n	1B 2F n	ESC / n	Selects the vertical tab channel used by VT $0 \leq n \leq 7$
27 48	1B 30	ESC 0	Sets 1/8" line feed
27 50	1B 32	ESC 2	Sets 1/6" line feed
27 51 n	1B 33 n	ESC 3 n	Selects n/216" line spacing $1 \leq n \leq 255$
27 65 n	1B 41 n	ESC A n	Selects n/72" line spacing $0 \leq n \leq 85$
27 66 n1 ..n16 0	1B 42 n1 ..n16 00	ESC B n1...n16 NUL	Sets vertical tab stops in channel 0 $0 \leq n \leq 255$
27 67 n	1B 43 n	ESC C n	Sets form length in lines $1 \leq n \leq 127$
27 67 0 n	1B 43 00 n	ESC C NUL n	Sets form length in inches $1 \leq n \leq 22$
27 74 n	1B 4A n	ESC J n	Perform n/216" line feed
27 78 n	1B 4E n	ESC N n	Sets skip perforation $1 \leq n \leq 127$
27 79	1B 4F	ESC O	Cancel skip perforation
27 98 m	1B 62 m	ESC b m n1...	Sets vertical tab stops in each channel

n1...n16 0	n1...n16 00	n16 NUL	m=channel number 0≤m≤7, 1≤n≤255
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Horizontal Motion Control Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION
8	08	BS	Backspace--moves 1 character space to the left
9	09	HT	Horizontal tab--moves to next horizontal tab position
27 36 n1 n2	1B 24 n1 n2	ESC \$ n1 n2	Sets absolute print position (distance from left margin)=(n1+n2x256) x 1/60"
27 68 n1 2k 0	1B 44 n1 n2 00	ESC D n1...n2 NUL	Sets horizontal tabs 1≤k≤28
27 81 n	1B 51 n	ESC Q n	Sets right margin
27 92 m n1 n2	1B 5C m n1 n2	ESC \ m n1 n2	Sets relative print position (n1+n2x256) > 32768:print start position moves right from the current position (n1+n2x256) < 32768:print position moves left from the current position Dot spacing 1/120"
27 108 n	1B 6C n	ESC l n	Sets left margin 0≤n≤255

Printing Style Control Sequence:

DEC.	HEX.	MNEMONIC	FUNCTION																											
27 33 n	1B 21 n	ESC ! n	<p>Selects a combination of printing characteristics</p> <p>The value of n specifies the following:</p> <table border="0"> <tr> <td>n</td> <td>Feature</td> <td>Equivalent command</td> </tr> <tr> <td>1</td> <td>12 cpi</td> <td>ESC M/ESC P</td> </tr> <tr> <td>2</td> <td>Proportional spacing</td> <td>ESC p</td> </tr> <tr> <td>4</td> <td>Condensed printing</td> <td>SI/DC2</td> </tr> <tr> <td>8</td> <td>Emphasized printing</td> <td>ESC E/ESC F</td> </tr> <tr> <td>16</td> <td>Double-strike printing</td> <td>ESC G/ESC H</td> </tr> <tr> <td>32</td> <td>Double-width printing</td> <td>ESC W</td> </tr> <tr> <td>64</td> <td>Italic printing</td> <td>ESC 4/ESC 5</td> </tr> <tr> <td>128</td> <td>Underline</td> <td>ESC -</td> </tr> </table>	n	Feature	Equivalent command	1	12 cpi	ESC M/ESC P	2	Proportional spacing	ESC p	4	Condensed printing	SI/DC2	8	Emphasized printing	ESC E/ESC F	16	Double-strike printing	ESC G/ESC H	32	Double-width printing	ESC W	64	Italic printing	ESC 4/ESC 5	128	Underline	ESC -
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27 107 n	1B 6B n	ESC k n	<p>Selects NLQ font</p> <table border="0"> <tr> <td>n=0</td> <td>Font set by the front panel switch</td> </tr> <tr> <td>n=1</td> <td>Sans Serif</td> </tr> <tr> <td>n=2</td> <td>Courier</td> </tr> <tr> <td>n=3</td> <td>Prestige</td> </tr> </table>	n=0	Font set by the front panel switch	n=1	Sans Serif	n=2	Courier	n=3	Prestige																			
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			n=7 Gothic
27 120 n	1B 78 n	ESC x n	Selects the NLQ or the draft mode n=0:Draft mode, n=1:NLQ mode

Note: You can select SSD mode only using the front panel method. There is no control code to select SSD

Print Size Commands:

DEC.	HEX.	MNEMONIC	FUNCTION
14	0E	SO	Selects double-width printing-prints for one line only
15	0F	SI	Selects condensed mode (10 cpi to 17.1 cpi, 12 cpi to 20 cpi)
18	12	DC2	Cancel condensed mode
20	14	DC4	Cancel double-width mode set by SO
27 77	1B 4D	ESC M	Selects 12 cpi
27 80	1B 50	ESC P	Selects 10 cpi
27 87 n	1B 57 n	ESC W n	Selects/deselects double-width mode n=1 starts double-width mode n=0 cancels double-width mode
27 112 n	1B 70 n	ESC p n	Sets proportional mode n=1 selects proportional mode n=0 cancels proportional mode
27 119 n	1B 77 n	ESC w n	Selects/deselects double-height n=1 starts double-height n=0 ends double=height

Print Enhanced Control Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION
27 32 n	1B 20 n	ESC SP n	Sets inter-character space (0≤n≤127)
27 45 n	1B 2D n	ESC - n	Underlining n=1 Starts underline; n=0 ends underline
27 52	1B 34	ESC 4	Selects italic mode
27 53	1B 35	ESC 5	Ends italic mode
27 54	1B 36	ESC 6	Expands printable characters
27 55	1B 37	ESC 7	Enables upper control codes

27 69	1B 45	ESC E	Sets emphasized printing
27 70	1B 46	ESC F	Cancel's emphasized printing
27 71	1B 47	ESC G	Sets double-strike printing
27 72	1B 48	ESC H	Stop double-strike printing
27 83 n	1B 53 n	ESC S	Sets superscript/subscript printing n=1 selects subscript printing n=0 selects supersubscript printing
27 84	1B 54	ESC T	Ends superscript and subscript mode
27 97 n	1B 61 n	ESC a n	Selects justification n=0:Left justification n=1:Centering n=2:Right justification n=3:Full justification

Character Table Control Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION
27 82 n	1B 52 n	ESC R n	Selects international characters n=0 U.S.A. n=7 Spain n=1 France n=8 Japan n=2 Germany n=9 Norway n=3 U.K. n=10 Denmark II n=4 Denmark n=11 Spain II n=5 Sweden n=12 Latin America n=6 Italy
27 116 n	1B 74 n	ESC t n	Selects character code table n=0:Italic character table n=1:Graphic character table
27 73 n	1B 49 n	ESC I n	Printable code area expansion n=0:Expanded area--0 to 31/128 to 159 (except control codes) n=1:Standard area 0 to 31/128 to 159 is nonprintable code

Font Downloading Control Sequence:

DEC.	HEX.	MNEMONIC	FUNCTION
27 37 n	1B 25 n	ESC % n	Selects/deselects the downloaded character set defined with ESC & n=0:Normal character sets n=1:Download character sets
27 38 0 n m a0	1B 26 00 n m a0	ESC & NUL n m a0	Defines download character codes n:Code for first character to download m:Code for last character to download

			a0:Attributes
27 58 0 n 0	1B 3A 00 n 00	ESC NUL n NUL	Copies the resident in ROM to downloading area in RAM n=0:Font set by the front panel switch n=1:sans serif n=2:courier n=3:prestige n=7:gothic

Graphic Image Printing Control Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION
27 94 m n1 n2	1B 5E m n1 n2	ESC ^ m n1 n2	Selects the 9-pin dot graphic mode
27 42 m n1 n2 d1 ...dk	1B 2A m n1 n2 d1 ...dk	ESC * m n1 n2 d1...dk	Selects graphic mode m=0: 60-dpi,Single-density mode m=1:120-dpi,Double-density mode m=2:120-dpi,Double-density,double-speed mode m=3:240-dpi,Quadruple-density mode m=4: 80-dpi graphic mode m=5: 72-dpi graphic mode m=6: 90-dpi graphic mode m=7:144-dpi graphic mode
27 63 n m	1B 3F n m	ESC ? n m	Reassigns graphics mode n="K","L","Y", or "Z" m=0: 60-dpi,Single-density mode m=1:120-dpi,Double-density mode m=2:120-dpi,Double-density,double-speed mode m=3:240-dpi,Quadruple-density mode m=4: 80-dpi graphic mode m=5: 72-dpi graphic mode m=6: 90-dpi graphic mode m=7:144-dpi graphic mode
27 75 n1 n2 d1... dk	1B 4B n1 n2 d1... dk	ESC K n1 n2 d1...dk	Single-density 8-pin bit image mode, 60 dpi (dots per inch) k=n1 (LSB)+(256 x n2) (MSB)
27 76 n1 n2 d1... dk	1B 4C n1 n2 d1... dk	ESC L n1 n2 d1 ...dk	Double-density 8-pin bit image mode, 120 dpi (dots per inch) k=n1 (LSB)+(256 x n2) (MSB)
27 89 n1 n2 d1... dk	1B 59 n1 n2 d1... dk	ESC Y n1 n2 d1 ...dk	Double-speed Double-density 8-pin bit image mode-120 dpi (dots per inch) (horizontally aligned dots cannot be printed) k=n1(LSB)+(256 x n2) (MSB)
27 90 n1 n2 d1... dk	1B 5A n1 n2 d1... dk	ESC Z n1 n2 d1 ...dk	Quadruple-density 8-pin bit image mode-240 dpi k=n1(LSB)+(256 x n2) (MSB)

(dtc-08/06/93)

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