This printer has three emulation modes:

\* HP LaserJet III

\* Epson FX-850

\* IBM Proprinter XL24e

The LP 800 has different responses to software codes from the computer--one set for each emulation. The response patterns, or modes, have many similarities, but each has its own unique features.

IBM PROPRINTER XL24e Control Codes:

Printer Operation/Data Control Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION	
13 17 by	0D 11	CR DC1	Carriage ret Selects prin ESC O	turn nter after deselection
24 27 25 n	18 1B 19 n	CAN ESC EM n	Cancelscle Selects pape n=1 selects	ear internal buffer er feed source. s cassette tray
27 28 n	1B 1C n	ESC FS n	n=2 selects Selects emu: n=0 Functio n=1 HP Emu: n=3 EPSON H n=4 IBM Emu n=5 HPGL Emu	on Reset lation Emulation ulation mulation
27 81 36 27 85	1B 51 24 1B 55	ESC Q \$ ESC U	Deselects p Unidirection	
27 91 75 c 0 i p1 p2	1B 5B 4B c 00 i p1 p2	ESC [Kc NULip1p2	<pre>c:defines f follow i:defines f i=0 or 1 settings i=4 or 5 default i=254: re settings</pre>	l condition the number of bytes to type of initialization : resets to current menu : resets to factory esets to current factory , and also stores pl or ngs into the menu
		pl bit 1	on)	2 (off)
		6 Res 5 Buz	ore this byte erved zer on o CR On	Process this byte Buzzer off Auto CR Off

		3 2 1 0	Auto LF On Skip perf. off Slashed zero Character Set 2	Auto LF Off 1" Skip perf. Non-slashed zero Character Set 1
		<b></b>		
		p2 bit	1 (on)	0 (off)
		7 6 5-0	Ignore this byte Multilingual Reserved	Process this byte USA
27 106 information	1B 6A	ESC j	Stops printi	ing-print out
	1B 6F n	ESC o n	in the buff printer off Sets orient n=0 sets po n=1 sets la	cation prtrait;

## Vertical Motion Control Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION
10 11 12 27 48 27 49 27 50 27 51 n	0A 0B 0C 1B 30 1B 31 1B 32 1B 33 n	LF VT FF ESC 0 ESC 1 ESC 2 ESC 3 n	Line Feed Vertical Tab Form Feed Sets 1/8" line feed Sets 7/72" line feed Starts line spacing set by ESC A Sets line feed pitch to n/216" in standard mode, n/180 in AGM mode 0 <n<255< td=""></n<255<>
27 52	1B 34	ESC 4	Sets current position as top of form
27 53	1B 35 n	ESC 5 n	Sets automatic line feed n=1: Carriage return and line feed n=0: Carriage return only
27 65	1B 41 n	ESC A n	Stores line-feed pitch to n/72" in standard mode, or n/60" in AGM mode when ESC 2 is input 1 <n<85< td=""></n<85<>
27 66 n1 nk 0	1B 42 n1 nk 00	ESC B nl nk NUL	Sets vertical tabs 1 <k<64, 1<n<65<="" td=""></k<64,>
27 67 n	1B 43 n	ESC C n	Sets form length in linesmax. 255 lines or 14 inches (portrait)/8.5" (landscape)
27 67 0 n	1B 43 00 n	ESC C NUL n	Sets form length in inchesmax. 14" (portrait)/8.5" (landscape)
27 74 n	1B 4A n	ESC J n	Do n/216" line feed in standard mode, n/180" in AGM mode 0 <n<255< td=""></n<255<>
27 78 n 27 79 27 82 27 91 92 4 0 0 0 0 n	1B 4E n 1B 4F 1B 52 1B 5B 5C 04 00 00 00 00 r	ESC N n ESC O ESC R ESC [ \ 4 NUL NUL	Sets skip perforation of n lines Cancels skip perforation Sets all tabs to power-on settings Sets base line-feed pitch to 1/n". n must be either 180 or 216.

## NUL NUL n

Horizontal Mc	otion Control S	Sequences:		
DEC.	HEX.	MNEMONIC	FUNCTION	
8 9 27 68 n1 nk 0 27 82	08 09 1B 44 n1 nk 00 1B 52	BS H ESC D n1 nk NUL ESC R	Backspace Horizontal tab Sets horizontal tabs 1 <k<32 Sets all tabs to power-on settings</k<32 	
27 88 n1 n2	1B 58 n1 n2	ESC X n1 n2	<pre>Sets left and right margins based on the current font pitch. n1 specifies left margin n2 specifies right margin. 1<n1<n2<maximum character="" column.<="" pre=""></n1<n2<maximum></pre>	
27 100 n1 n2	1B 64 n1 n2	ESC d n1 n2	Relative dot positioning-move the print-start position to the right of the current printing position for (n1+(n2x256"))/120"	
Printing Styl	e Control Sequ	lences:		
DEC.	HEX.	MNEMONIC	FUNCTION	
14	OE	SO	Selects double-width printing-prints for one line only.	
15	OF	SI	Selects condensed printing17.1 CPI	
18 20	12 14	DC2 DC4	Selects standard 10 CPI printing Cancels single-line double-width printing set by SO	
27 58 27 80 n	1B 3A 1B 50 n	ESC : ESC P n	Selects compressed printing12 CPI Selects or deselect proportional characters n=1 ON; n=0 OFF	
27 87 n	1B 57 n	ESC W n	Continuous double-width printing n=1 selects continuous double-width printing. n=0 cancels continuous double-width printing.	
27 91 64 4 0 0 0 n1 n2	1B 5B 40 04 00 00 00 n1 r	ESC [ @ 4 n2 NUL NUL NUL n1 n2	Double-Height Printing n1=1 Single height 2 Double Height n1=16 Single line spacing, 32 Double line spacing n2=1 Single width 2 Double width	
Note: The font downloading control code sequence (ESC =) is ignored by this printer.				
Print Enhancement Control Sequences:				

DEC.	HEX.	MNEMONIC	FUNCTION
27 45 n	1B 2D n	ESC - n	Underlining n=1 Starts underline n=0 ends underline

27 69	1B 45	ESC E	Sets emphasized printing
27 70	1B 46	ESC F	Cancels emphasized printing
27 71	1B 47	ESC G	Sets double-strike printing
27 72	1B 48	ESC H	Stops double-strike printing
27 83 n	1B 53 n	ESC S n	Sets superscript/subscript n=0 selects superscript printing n=1 selects subscript printing
27 84	1B 54	ESC T	End superscript and subscript printing
27 95 n	1B 5F n	ESC _ n	Overscoring n=1 selects continuous overscoring n=0 cancels continuous overscoring

Character	Table	Control	Sequences:	
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DEC.	HEX.	MNEMONIC	FUNCTION
27 54 27 55	1B 36 1B 37	ESC 6 ESC 7	Selects IBM Character Set 2 Selects IBM Character Set 1
27 92 n1 n2	1B 5C n1 n2	ESC \ n1 n2	Prints continuously the next (n1+(n1x256)) characters from the All Characters set
27 94 n	1B 5E n	ESC ^ n	Print a character from the All Characters set n defines the ASCII code of the character to print.
27 91 84 4	1B 58 54 04	ESC [ T	Selects either code page USA or
0 0 0 n1 n2	00 00 00 n1 r	12 4 NUL NUL NUL n1 n2	Multi-lingual. Send 1 as n1 and 181 as n2 to select code page 437 (USA) Send 3 as n1 and 82 as n2 to select code page 850 (multilingual)

## Graphic Image Printing Control Sequences:

DEC.	HEX.	MNEMONIC	FUNCTION
27 42 m n1 n2 d1dK	1B 2A m n1 n2 d1dk	ESC * m n1 n2 d1dk	<pre>Selects various bit image graphic mode (AGM) m=0:60-dpi/8-pin m=1:120-dpi/8-pin m=2:120-dpi/8-pin m=3:240-dpi/8-pin m=4:80-dpi/8-pin m=6:90-dpi/8-pin m=32:60-dpi/24-pin m=33:120-dpi/24-pin m=38:90-dpi/24-pin m=39:180-dpi/24-pin m=40:360-dpi/24-pin k=n1 (LSB)+(256 x n2 (MSB))</pre>
27 75 n1 n2 d1dk	1B 4B n1 n2 d1dk	ESC K n1 n2 d1dk	Normal-density 8-pin bit image mode 60-dpi k=n1 (LSB)+(256 x n2 (MSB))
27 76 n1 n2 d1dk 27 89 n1 n2 d1dk	dldk	ESC L n1 n2 d1dk ESC Y n1 n2 d1dk	Double-density 8-pin bit image mode 120-dpi k= (n1+(256 x n2)) Double-density 8-pin bit image mode 120 dpi (horizontally aligned dots

27 90 n1 n2 d1dk 27 91 103 n1 n2 m d1 dk		- 2	<pre>can not be printed) k=(n1+(256 x n2)) Quadruple-density 8-pin bit image mode. 240-dpi k=(n1+(256 x n2)) Selects various bit image graphic mode. m=0: 60-dpi/8-pin (Same as ESC K) m=1: 120-dpi/8-pin (Same as ESC L) m=2: 120-dpi/8-pin (Same as ESC Y) m=3: 240-dpi/8-pin (Same as ESC Z) m=8: 60-dpi/24-pin m=9: 120-dpi/24-pin m=11: 180-dpi/24-pin m=12: 360-dpi/24-pin</pre>
(dtc-08/06/93 (smm 08/24/93 (smc-09/14/93	5)		