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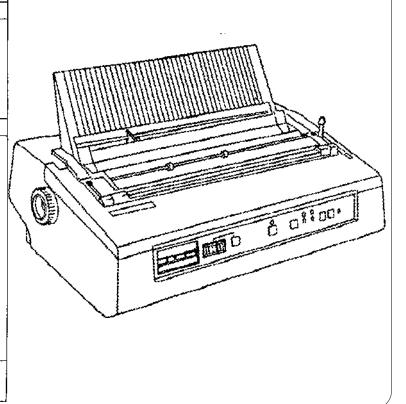
Revision Date: 8/18/94

FEATURE	SPECIFICATION	FEATURE	SPECIFICATION	
	I	Perfor	mance Specifications (cont'd)	
Perf	ormance Specifications	Spacing Speed	30 milliseconds at 12 cpi	
Туре	Formed character	Form Feed	1 to 99 lines (maximum)	
Print Speed	Up to 35 cps	Line Feed	6 or 8 lines per inch (forward/ reverse)	
Print Line	136 columns at 10 cpi	Self Test	 Prints stored print test Self-function test** 	
	163 columns at 12 cpi 203 columns at 15 cpi	Serial Interfa	<pre>specifications (Models 3510/3520, 3515/3525, and 3500R)</pre>	
Impression Control	3-step by operator 8-step by program control	Compatibility	Electrically compatible with EIA RS-232-C and CCITT V.24 Optional RS-422 interface	
Paper Width	Up to 16 inches	Communication Error Detection	ASCII, Half or Full Duplex	
Character Set Paper Movement	Up to 128 fully formed characters	Receive Buffer	Even/odd parity Framing/overrun error detection 2048 characters (standard except Model 3500R)	
Carriage Return Time	Porward or reverse, up or down		256 of 2048 characters, switch- selectable (Model 3500R)	
2	900 milliseconds (maximum)	Protopol	ETX/ACK or X-ON/X-OFF reverse channel	
Horizontal Resolution	120 increments per inch	Parallel Interface Specifications (Model 3530)		
Horizontal Tabulation	Normal and addressable - right and left	Compatibility	Blectrically compatible with Centronics-type parallel interface	
Vertical Resolution	48 increments per inch	Communication Code Receive Buffer	ASCII 512 or 2048 characters, switch-	
Vertical Tabulation	Normal and addressable - up and down		sclectable Dimensions	
Line Feed Speed	48 x n* + 40 ms settling time at 1/6-inch per line 36 x n + 40 ms settling time at 1/8-inch per line	Width: Depth: Height:	24.0 inches (610 mm) 15.6 inches (395 mm) 8.2 inches (208 mm); 9 inches (230 mm) including paper release lever	

FEATURE	SPECIFICATION
	Dimensions (cont'd)
Weight:	37.4 pounds (17 kg) (qualifies for UPS shipment)
	Power Requirements
Input Power	115 Vac ±15%, 2.5 Amps, 50/60 Hz +5% -3%, or
	230 Vac +15%, 1.5 Amps, 50/60 Hz +5% -3%, or
	100 Vac +10%, 3 Amps, 50/60 Hz +5 -3%

Operating Noise Level	60 dBa with cover
Temperature	Operating: 40°F to 100°F
BTU/HR. 220 NON-ANNATING	(5°C to 38°C) 5 Storage: -22°F to 158°F (-30°C to 70°C)
Altitude	Operating: Sea level to 10,000 ft. Storage: Sea level to 25,000 ft.
MCBF	30 million characters
MTBF	3000 Power On Hours (POH) based on 8 hours per day usage, 20% duty cycle, 50% page density
MTTR	15 minutes
Radio Frequency Interference	Designed to accommodate FCC Class A and B. Currently in the process of certification and testing for Class B.
Electrical Safety	Underwriters Laboratory UL478 EDF and Canadian Standards Agency listed

*Number of lines **Not available on Models 3500R or 3530



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nsive	Support	Document Revision Date: 8/18/94
Version 5.1. I ne	ed to know what softw	nd I am using the WordPerfect Software vare driver to select from the list of printers
	±	may be selected in order to support the NEC based software application packages.
NEC Moo	del <u>S</u>	oftware Driver Selection/Emulation
NEC 3510		EC 3510, 5510, 7710 or 8810 Spinwriter. eceive Only ANSI Terminal.
NEC 351		EC 3515, 5515, 7715 or 8815 Spinwriter. EC 2030, 3530, 5530, 7730 or 8830 Spinwriter.
	I have a NEC Spi Version 5.1. I ne which is included Below is a list of Spinwriter 3500 F <u>NEC Mod</u> NEC 3510	I have a NEC Spinwriter 3500 Printer a Version 5.1. I need to know what softw which is included with the software. Below is a list of printer drivers which the Spinwriter 3500 Printer line under DOS <u>NEC Model</u> Se NEC 3510 N R NEC 3515 N

* If the software application which is currently being utilized does not list any of the above listed printer driver options, then you may either select a Generic Text Printer driver or, you can contact the software manufacturer to see if they will supply the appropriate printer driver needed.

NEC 3530, 5530, 7730, 8830 Spinwriter. NEC 3515, 5515, 7715, or 8815 Spinwriter.

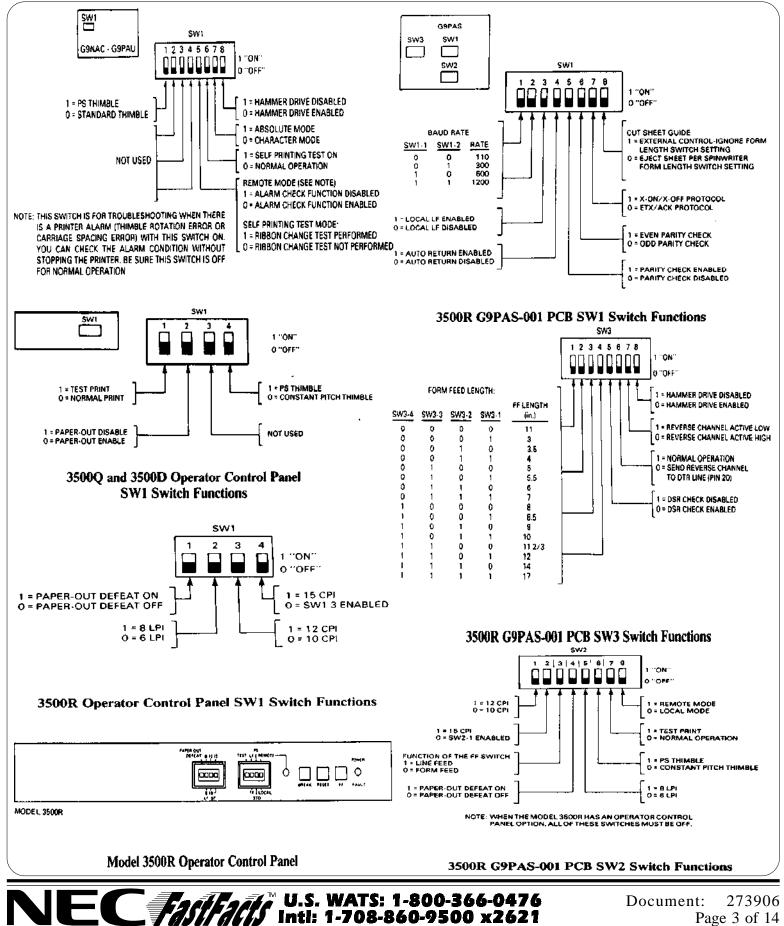
NEC 3550 or 8850 Spinwriter.

NEC 3530

NEC 3550

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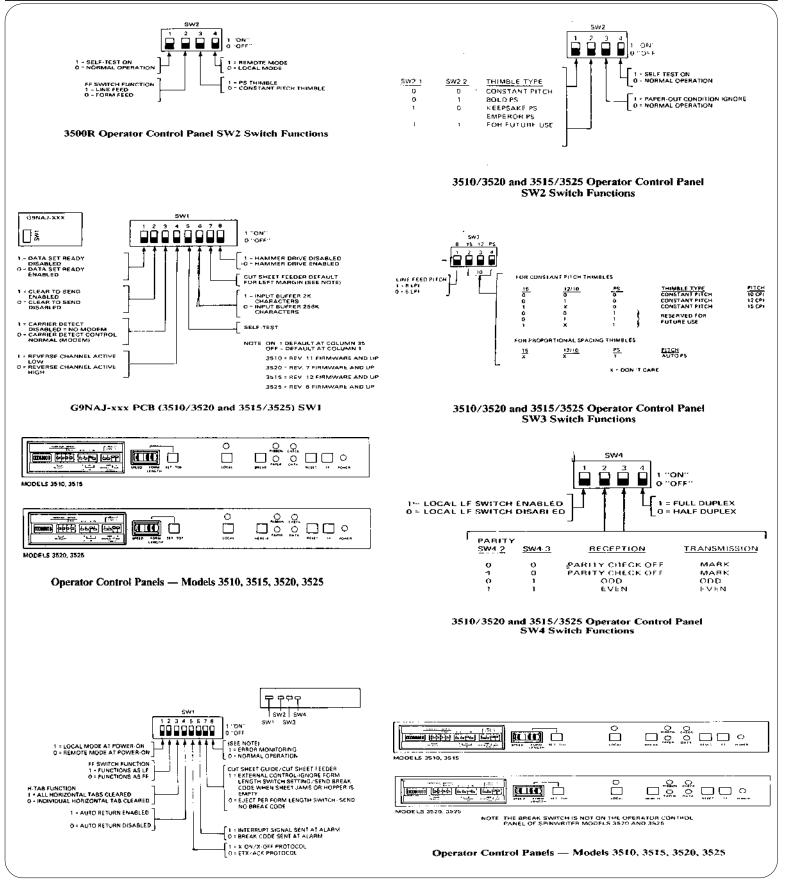
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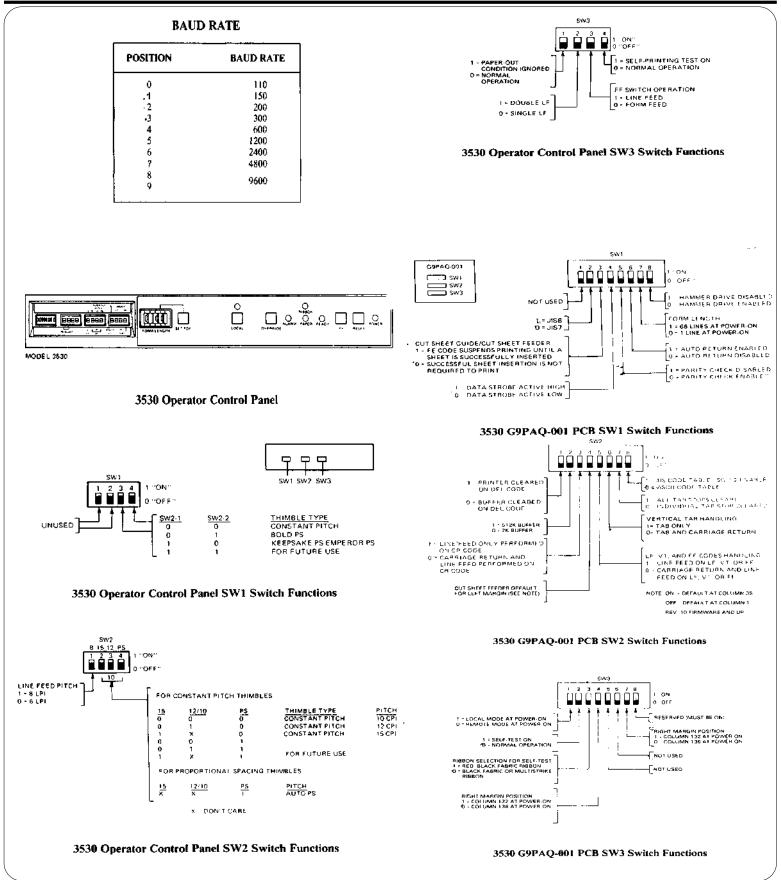


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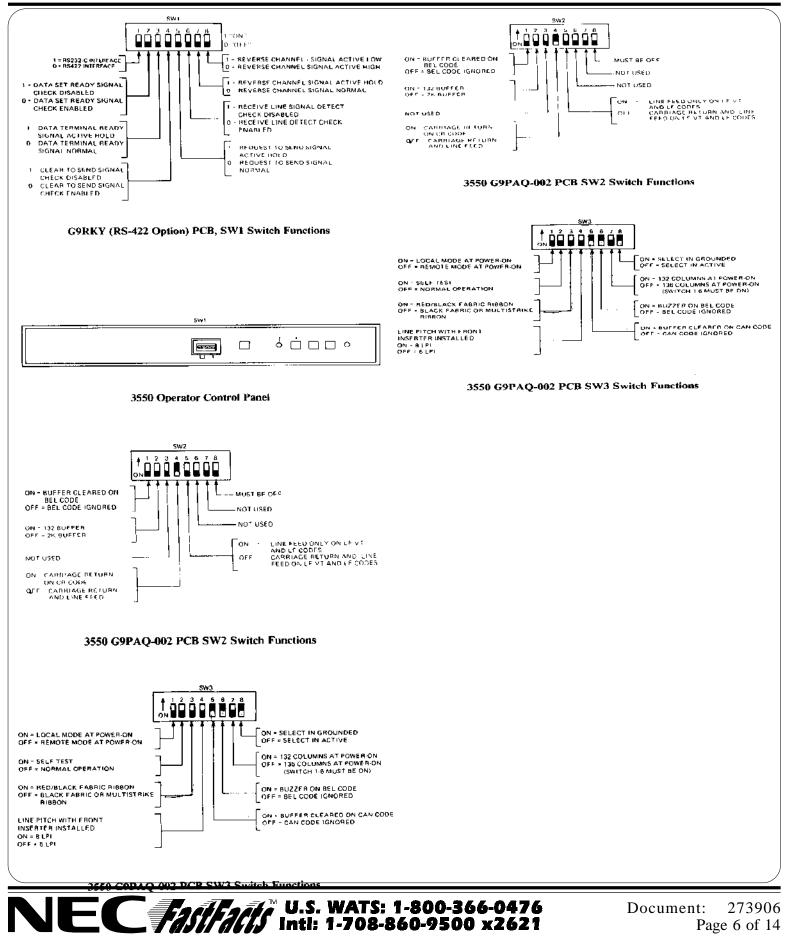
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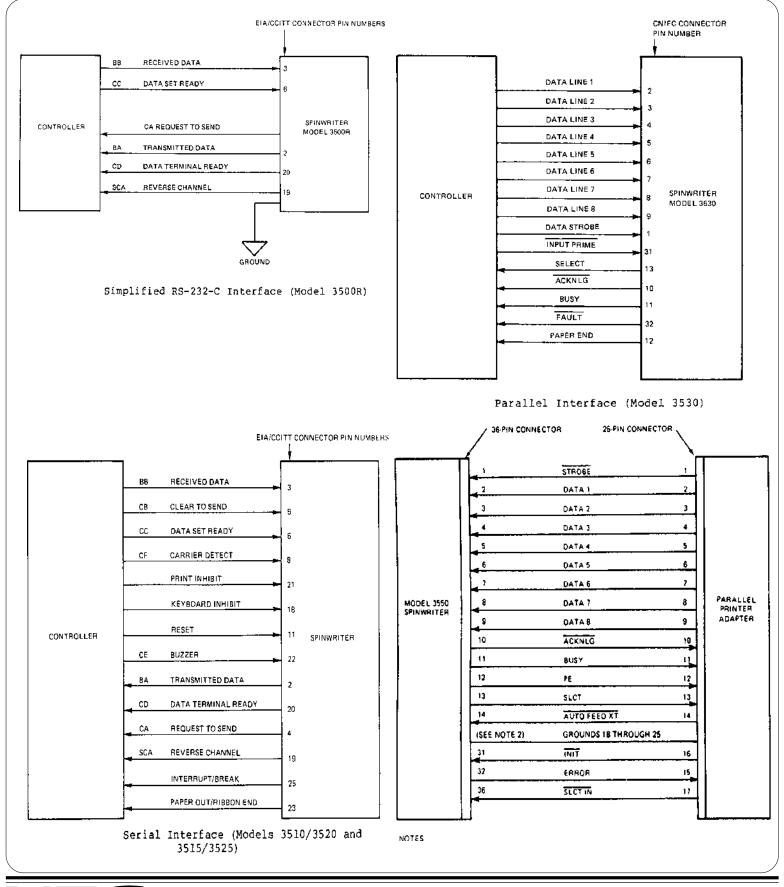
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Comprehensive Spinwriter 3500



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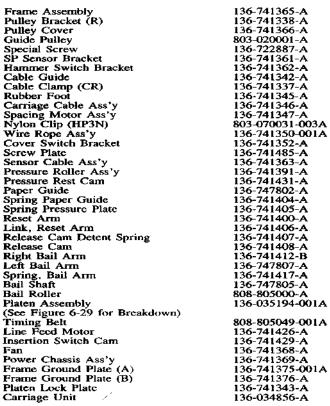
Revision Date: 8/18/94

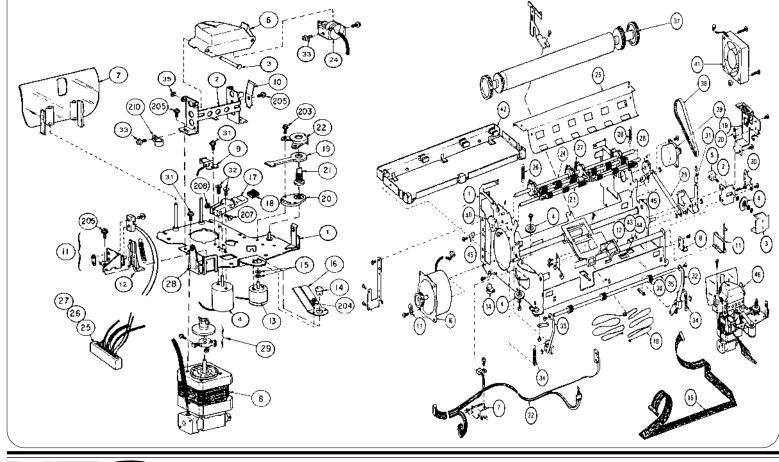
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(1)	Carriage Frame	136-741461-A	1	Frame Assembly
2	Hammer Bracket	136-741466-A	2	Pulley Bracket (R)
3	Hammer Support Shaft	136-741467-A	2 3 4	Pulley Cover
4	Ribbon Feed Magnet	136-741468-A	4	Guide Pulley
6	Hammer Cover	136-741472-A	5 7	Special Screw SP Sensor Bracket
7	Card Holder (Standard)	136-741473-A	8	Hammer Switch Bracke
'	Card Holder (Demand Document	136-746608-A	11	Cable Guide
	Tractor)	150-740008-A	12	Cable Clamp (CR)
		126 740724 4	14	Rubber Foot
	Card Holder (Front Inserter)	136-740724-A	15	Carriage Cable Ass'y
8	Selection Motor	136-741474-A	16	Spacing Motor Ass'y
9	Pickup Assembly	136-741475-A	17 18	Nylon Clip (HP3N)
10	Hammer Lock Spring	136-741479-A	19	Wire Rope Ass'y Cover Switch Bracket
11	Switch Assembly	136-741480-A	20	Screw Plate
12	Ribbon End Feeler	136-741482-A	22	Sensor Cable Ass'y
13	Solenoid	136-741490-A	23	Pressure Roller Ass'y
14	Solenoid Cap	136-741491-A	24	Pressure Rest Cam
15	Solenoid Spacer	136-741492-A	25	Paper Guide
16	Ribbon Change Spring	136-741493-A	26	Spring Paper Guide
17	Ribbon Feed Gear	136-741494-A	27	Spring Pressure Plate
18	Rubber Stopper	136-741495-A	28 29	Reset Arm
19	Ribbon Feed Arm	136-741495-A	30	Link, Reset Arm Release Cam Detent Spi
20	Ribbon Clutch Base		31	Release Cam
20		136-741497-A	32	Right Bail Arm
22	Ribbon Feed Clutch Ass'y	136-741498-В	33	Left Bail Arm
	Ribbon Clutch Cover	136-741502-A	34	Spring, Bail Arm
24	Print Hammer Ass'y	136-034857-C	35	Bail Shaft
29	Thimble Mount Unit	136-741514-C	36	Bail Roller
30	Protection Bracket (R)	136-741519-A	37	Platen Assembly
31	Protection Bracket (L)	136-741523-A	38	(See Figure 6-29 for Br
32	Spring Holder	136-741520-A	39	Timing Belt Line Feed Motor
33	Spring	136-741521-A	40	Insertion Switch Cam
34	Spring (RF)	136-741528-A	41	Fan
36	Print Masks	808-863310-A	42	Power Chassis Ass'y
		000 0000 IO-11	43	Frame Ground Plate (A)
			44	Frame Ground Plate (B)
			45	Platen Lock Plate
			46	Carriage Unit





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		550 c Reference	odes Control Codes	Table
CONTROL EQUIVA		LÊNTŞ	DEFINITION	FUNCTION
CODE	HEX	DECIMAL		
	LPRINT CHR\$(&H)	LPRINT CHR\$()		
NUL .	- 00	00	Nuli	Terminates tab selection se- quences (see "Escape Sequenc- es").
STX	02	02	Start of Text	Accesses the second font on thimbles with more than 94 characters.
ETX	03	03	End of Text	Cancels STX.
BEL	07	07	Bell	Sounds the buzzer.
нт	09	09	Horizontal Tab	Moves the carriage to the next horizontal tab stop.
LF	0A	10	Line Feed	Performs one line feed.
VT	0B	П	Vertical Tab	Advances to the next vertical tab.
FF	0C	12	Form Feed	Advances to the next top of form.
CR	0D	13	Carriage Return	Returns the carriage to the left margin.
so	0E	14	Shift Out	Sets double-spaced characters (5 pitch).
SI	0F	15	Shift In	Sets 15 pitch.
DCI	L1	17	Device Control I	Selects the printer.

ESC CODE AND ASCII CONTROL CHARACTER	CONTROL CH EQUIVAL		FUNCTION
LPRINT CHR\$(27);"_": or CHR\$(&H1B):"_"	нех Снр\$(&н)	DECIMAL CHR\$(= -)	
ESC (28	40	Sets automatic bidirectional print.
ESC)	29	41	Cancels automatic bidirectional print.
ESC :	3A	58	Performs one-half line feed
ESC ;	3B	59	Performs reverse half line feed
ESC -	2D	4.5	Sets automatic underscore
ESC '	27	39	Cancels automatic underscore
ESC &	26	38	Clears all word processing modes
ESC (58	91	Performs no carriage return on line leed, vertical tab, and form feed.
ESC o	51.	94	Performs an automatic catriage return on line feed, vertical tab. and form feed codes.
ESCNA	5C. 41	92, 65	Selects hopper 1 of the cut sheet feeder. Selects tractor section of the front inserier
ESCNB	5C', 42	93, 66	Selects happen 2 of the cut shoct feeder. Selects inserter section of the front inserter.
ESCNE	50, 45	92.69	Performs eject and losert with the cut sheet feeder. Performs insert on the front inserter.
ESCNF	5C, 46	92,70	Performs eject with the cut sheet feeder. Performs eject on the tront inserter.
ESC #A	23.41	35.65	Initializes the primer.
ESC #P	23, 50	35, 80	Disables the pript hammer
ESC \$A	24.41	36. 65	Automatically centers text
ESC \$B	24.42	36, 66	Automatically justifies text.
			L

Quick Reference Escape Sequences Table (cont'd)

ESC CODE AND ASCII				ESC CODE AND ASCII CONTROL CHARACTER	CONTROL CH EQUIVAI		
CONTROL CHARACTER	CONTROL CH EQUIVAI		FUNCTION	LPRINT CHR\$(27);"_"; or CHR\$(&HIB);"_"	HEX CHR\$(&H)	DECIMAL CHR\$(+ -)	FUNCTION
LPRINT			FONCTION	ESC H	48	72	Cancels automatic shadow print- ing.
CHR\$(27);"_";		DECRACI		ESC I	49	73	Sets character spacing at 12 pitch.
or CHR\$(&H1B);"_"	HEX CHR\$(&H)	DECIMAL CHR\$()		ESC J	4A	74	Sets the right margin at the cur- rent carriage position.
	···· ·· ··			ESC K	48	75	Cancels ESC J.
ESC % (n)	25 (n)	37 (n)	Sets spacing offset.	ESC L	4C	76	Cancels program mode.
ESC =	3D	61	Selects the power-on defaults (10	ESC M	410	77	Sets the left margin at the current carriage position.
			pitch, 132/136 columns, 6 lpi).	ESC N	4E	78	Sciathe center margin at the cur- rent carriage position.
	(D (10 (D)	03 (64 70)	Sets a horizontal motion index	ESC O	4F	79	Clears left and center margins.
ESC] (@-O)	5D (40-4F)	93 (64-79)	(HMI) of 0/120 to 15/120 inch.	ESC P	50	80	Sets program mode.
]		E\$C Q	51	81	Performs a fine backspace.
ESC *	2A	42	Selects the graphics thimble.	ESC R	52	82	Sets automatic proportional spac- ing.
ESC +	2B	43	Cancels the graphics thimble.	ESC S	53	83	Sets character spacing at 10 pitch.
	47		· · ·	ESC T	54	B4	Cancels automatic proportiona spacing.
ESC ?	3F	63	Initiates loading for RAM table.	ESC U (n)	55 (n)	85 (n)	Sets the left margin at the (n)th column.
ESC @	40	64	Ends loading for RAM thimble table.	ESC V (n)	56 (n)	86 (n)	Sets the center margin at the (n)th column.
				ESC W (n)	\$7 (n)	87 (n)	Sets the right margin at the (n)th column.
esc <	3C	60	Disables SI and ESC SI.	ESC X (n)	\$8 (n)	68 (n)	Sets the amount of ribbon feed for (n) steps.
ESC >	3E	62	Cancels ESC <.	ESC . (period)	2E	46	Sets graphics mode.
				ESC /	215	47	Cancels graphics mode.

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Quick Reference Escape Sequences Table					
ESC CODE AND ASCII CONTROL CHARACTER	CONTROL CHARACTER EQUIVALENTS				
LPRINT CHR\$(27);"''; or CHR\$(&HJB);"_"	HEX CHR\$(&H)	DECIMAL CHR\$()	FUNCTION		
ESC 0	30	48	Sets the line spacing at 8 lpi.		
ESC I	31	49	Sets the line spacing at 5/48 inch (about 10 lpi).		
ESC 2	32	50	Sets the line spacing at 6 lpi.		
ESC 3	33	51	Prints in red.		
ESC 4	34	\$2	Prints in black.		
ESC 5	35	53	Selects the RAM thimble.		
ESC 7	37	55	Performs reverse line feed.		
ESC 8	38	56	Overrides paper-out atarms.		
ESC 9	39	57	Cancels ESC 8.		
ese si	0F	15	Sets character spacing at IS pitch (condensed print).		
ESC SO	0E	t 4	Sets character spacing at 5 pitch (double-spaced print).		
ESC A (n) ESC 2	41 (n)	65 (n)	Sets a vertical motion index (VMI) of 0/48 to 57/48 inch.		
ESC B (n) NUL	42 (n)	66 (n)	Sets vertical tab stops.		
ESC C (n)	4 3 (n)	67 (n)	Sets forms length per page.		
ËSC D (n) NUL	44 (n)	68 (n)	Sets horizontal tab stops.		
ÉSC E	45	69	Sets automatic double-strike print- ing.		
ESC F	46	70	Cancels automatic double-strike printing.		
ÉSC G	47	71	Sets automatic shadow printing.		

]	RECEIVED ASCII CHARACTERS	INSTRUCTION
l		Control Codes (not printed)
י ו	ETX (not on Model 3530)	End of Text - The last character trans- mitted in batch (ETX/ACK protocol).
	ACK (not on Model 3530)	<u>Acknowledge - Transmitted</u> by Spinwriter, meaning ready to print (ETX/ACK protocol).
	BEL (not on Model 3530 or 3500R)	<u>Bell</u> - Sounds audible alarm.
	BS	Backspace - In normal mode, reverses car- riage position by one character space. In program mode, reverses carriage posi- tion a distance equal to the last forward spacing instruction. In graphics mode, reverses carriage position 1/60-inch.
l	нт	<u>Horizontal Tab</u> - Advances carriage to next horizontal tab set.
ł	VT	Vertical Tab - Advances paper to next vertical tab set.
l	LF	Line Feed - Advances paper one line.
	चर	Form Feed - Feeds paper to top of next form.
Į	CR	Carriage Return - Moves carriage to left margin and (the LOCAL LF DIP switch is on) feeds paper one line.
	SÖ	Shift Out - Interprets characters that follow to access special characters on print font.
	SI	Shift In - Resumes normal ASCII coding.
	DC1 (not on Model 3530)	<u>X-ON - Transmitted</u> by Spinwriter, meaning ready to print (X-ON/X-OFF protocol).

Models 3515/3525 Control Code and Escape Sequence Instruction Set (cont'd)

CHARACTERS	INSTRUCTION
Carri	iage Movement Escape Codes (cont'd)
ESC 9	Set Left Margin - Sets left margin at cur- rent carriage position.
ESC HT (n)	Absolute Horizonal Tab - Moves carriage to position specified by third character, which is an ASCII character whose decimal value indicates the print position desired (see Table 4-8).
	NOTE: The Models 3515/3525 can absolute tab to only the first 126 of 203 columns (at 15 cp1),
ESC U5 (n)	Set Horizontal Motion Index - In normal mode, sets character spacing to distance specified by third character (from 0 to 25/24th inches), which is an ASCII char- acter whose decimal value is one greater than the number of increments the carriage moves (see Table 4-8). (This code over- rides the 10/12/15 pitch DIP switch setting; see Appendix A.)
	Ribbon Control
ESC A	Print in red - Prints in red.
ESC B	Print in black - Prints in black.
	Paper Movement Escape Codes
ESC LF	Reverse Line Feed - Moves paper down one line.
ESC U	Half Line Feed - Moves paper up one half line.
ESC D	Reverse Half Line Feed - Moves paper down one half line.
ESC VT (n)	Absolute Vertical Tab - Moves paper up or down to line specified by third character, which is an ASCII character whose decimal value is equal to the number of lines on the form to be reached (see Table 4-8).

Models 3510/3520, 3500R, and 3530 Control Code and Escape Sequence Instruction Set (cont'd)

RECEIVED ASCII	INSTRUCTION
	Control Codes (cont'd)
DC3 (not on Model 3530)	<u>X-OFF</u> - Transmitted by Spinwriter, meaning not ready to print (X-ON/X-OFF protocol).
DEL (not on Model 3530)	DELETE - Clears buffer or clears printer, controlled by DEL DIP switch (see Appendix A).
ESC	<u>Escape Prefix</u> - see ESC codes in this table.
SP	<u>Space</u> - In normal mode, moves carriage in printing direction one character distance. In program mode, moves carriage distance specified by next byte. In graphics mode, moves carriage position 1/60-inch.
	arriage Movement Escape Codes
ESC 1	Set <u>Horizontal Tab</u> - Sets a horizontal tab at the current carriage position.
ESC 2	Clear Horizontal Tab - If the clear hori- zontal tab DIP switch is off (see Appendix A), clears the horizontal tab set at the current position. If the switch is on, clears all set horizontal tabs.
ESC 7 (not on Model 3500r)	Clear All Tabs and Forms Length - Clears all set horizontal tabs, vertical tabs, and forms length.
ESC = (not on Model 3500R)	Read and Store Switch Settings - Reads settings of spacing DIP switch (10, 12, 15, PS) and line feed DIP switch (6 or 8) (see Appendix A).
esc <	Reverse Print - Prints from right to left.
esc >	Forward Print - Prints from left to right.
ESC ((not on Model 3500R)	<u>Auto Bidirectional Print On</u> - Prints in both directions if conditions permit.

Models 3510/3520, 3500R, and 3530 Control Code and Escape Sequence Instruction Set

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Model: 3510/3520, 3500R, and 3530 Control Code and Escape Sequence Instruction Set (cont'd)

Nodels 3515/3525 Tab'Index and Remote Forms Length

RECEIVED ASCII CHARACTERS	INSTRUCTION
	age Movement Escape Codes (cont'd)
· · · · · · · · · · · · · · · · · · ·	
ESC) (not on Model 3500R)	<u>Auto Bidirectional Print Off</u> - Prints only from left to right.
ESC Jor j	<u>Set Right Margin</u> - Sets right margin at Gürrent carrlage position.
ESC K OF K	Reset Right Margin - Clears any preset right margin and resets to extreme right print position.
ESC Morm	<u>Set Left Margin</u> - Sets left margin at cur- rent carriage position.
ESC O or o	Reset Left Margin - Clears any preset left margin and resets to extreme left print position.
ESC P (n)	Absolute Horizontal Tab - Moves carriage to position specified by second and third characters (see Table 4-3).
ESC] (n)	Set Space Pitch - In normal mode, sets character spacing to distance specified by third character, from 0 to 15/120-inch (overrides 10/12/15/PS pitch DIP switch setting on operator control panel) (see Table 4-2).
	Ribbon Control Escape Codes
ESC 3	Print in red - Prints in red.
ESC 4	<u>Print in black</u> - Prints in black.
	Paper Movement Escape Codes
ESC 5	Set Vertical Tab - Sets an individual vertical tab at the current paper posi-tion.
ESC 6	<u>Clear Vertical Tab</u> - Clears the individual vertical tab set at the current paper position.

Models 3510/3520, 3500R, and 3530 Control Code and Escape Sequence Instruction Set (cont'd)

RECEIVED ASCII CHARACTERS	INSTRUCTION					
Pape	Paper Movement Escape Codes (cont'd)					
ESC 7	<u>Clear All Tabs and Forms Length</u> - Clears all set vertical tabs, horizontal tabs, and form length. Sets FF to maximum (99) and present paper position at TOF.					
ESC =	Read and Store Switch Settings - Reads settings of line feed DIP switch (6 or 8) and spacing switch (10/12/15/PS).					
ESC S (Model 3530 only)	Read and Store Spacing Switch Settings - Reads spacing switch settings and cancels automatic proportional spacing.					
ESC ?	Enter Format Mode - Enters a mode where all paper movement control codes are in- hibited from moving the platen (LF, VT, FF, and Reverse LF). (This mode permits setting vertical tabs and TOF without moving paper.)					
ESC @ or `	Exit Format Mode					
ESC 9	<u>Reverse Line Feed</u> - Moves paper down one line.					
ESC ;	<u>Half Line Feed</u> - Moves paper up one-half line.					
ESC ;	<u>Reverse Half-Line Peed</u> - Moves paper down one-half line.					
ESC L or 1	Set Form Length - Sets the number of lines just fed to be form length and the current vertical position as top of form.					
ESC Z (n)	Relative Vertical Tab Up - Moves paper up $(forward)$ number of lines specified (0 to 63) by second and third characters (see Table 4-4).					
E5C X (n)	Relative Vertical Tab Down - Moves paper down (reverse) number of lines specified (0 to 63) by second and third characters (see Table 4-4).					

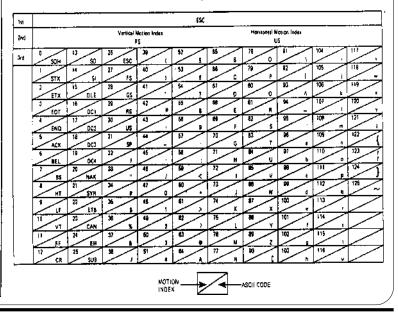
1et		ESC]
Znd	Absolute Horrzontel Tata HT	Remote Forms Langth FF	Absolute Vertical Tab. VT	
34	1 SOM 10 SO 855 87		79 0 R2 105	
	2 15 71 41 STX 51 71 45	· · · · · ·	10 13 108	119
	3 ETX 0LE 78 03	* 55 , * 0	N 0 N 107	
	* 17 20 43 601 0C1 R5 43		R R R 108	- 12
	3 ENG 0C2 11 US 44	6 A .	10 3 9 108	
	6 ACK 19 0CJ 32 58 46		34 T 97 110	, 123
	7 8FL 0C1 33 1 41	S	8 0 0 11	
	1 21 34 47 05 NAK . 47	80 7 7		
	17 22 SYN 38 4	° · · ·	17 130 0 113	
	10 23 74 49		1 100 110	
	11 VT 24 37 3 50	2 0 , 10 ,	• y 100 , 115	
	17 18 28 28 51	3 4 9 77 1	30 103 118	
	13 28 30 39 52	4 85 A 70 H	91 IOX 111	

TAB POSITION ON ABOUT SOOL

Models 3510/3520, 3500R, and 3530 Spacing and Forms Advance Control

		Spacing		For	m Advance
1 st	2nd	3rd	[nches	3rd	Inches
ESC	1	9	0	Ρ	1/48
		A	1/120	Q	2/48
		8	2/120	R	3/48
		С	3/120	S	4/48
		D	4/120	т	5/48
		E	5/120	υ	6/48 (1/8)
	1	F	6/120	V	7/48
		G	7/120	w	8/48 (1/6)
		н	8/120	х	9/48
	1	1	9/120	Y	10/46
		J	10/120 (1/12)	Ż	11/48
		к	11/120	Ĩ	12/48
		L	12/120 (1/10)	١ [13/48
		м	13/120	1	14/48
	1	N	14/120	^	15/48
		0	15/120	_	16/48

Model 3515/3525 Motion Index



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ESC SUB 1

ESC SUB 2

ESC SUB 3

ESC (xxx... XX ESC)

ESC 7

Support Document

Models 3515/3525 Control Code and Escape Sequence Instruction Set (cont'd)

Revision Date: 8/18/94

	dodels 3515/3525 Control Code and Escape quence Instruction Set (cont'd)	l Sec	Mo Q I
RECEIVED ASCII CHARACTERS	INSTRUCTION	RECEIVED ASCII CHARACTERS	
		Word	1
	Graphics Mode	ESC W	Γ
ESC 3	Enter Graphics Mode - Sets a mode where carriage movement does not occur auto- matically when a character is printed; movements of the carriage in response to space and backspace, and movements of paper in response to line feed, are re- defined.	ESC F	
ESC 4	Exit Graphics Mode		
	Remote Diagnostics	ESC E	
ESC SUB I	Initialize Spinwriter - Executes an ini- tialize sequence same as normally occurs at Spinwriter power on. Erases tab set- tings.		
ESC SUB R	<u>Reset</u> - Executes reset sequence same as normally occurs when pressing RESET when pressing RESET	ESC R	

INSTRUCTION	CHARACTERS	INSTRUCTION
Graphics Mode	Word	Processing Assist Group (cont'd)
Enter Graphics Mode - Sets a mode where carriage movement does not occur auto- matically when a character is printed; movements of the carriage in response to space and backspace, and movements of	ESC W	Enter Auto Shadow Print Mode - Enters mode where all subsequent printable characters are struck twice with 1/120-inch of car- riage movement between strikes and no in- tervening paper movement. If previously set, exits auto bold mode. (Clears with carriage return.)
paper in response to line feed, are re- defined. <u>Exit Graphics Mode</u>	esc e	Exit Auto Bold/Shadow Print Mode - Exits whichever of these two modes is set. A carriage return or an "ESC X" sequence has the same function.
Remote Diagnostics	es⊂ e	Enter Auto Underscore Mode - Enters a mode
Initialize Spinwriter - Executes an ini- tialize sequence same as normally occurs at Spinwriter power on. Erases tab set- tings.		where the subsequent character string (ending by an ESC R) is printed, the car- riage is reversed to the first character in the string, then an underscore (_) is printed under all characters in the string.
Reset - Executes reset sequence same as normally occurs when pressing RESET	ESC R	Exit Auto Underscore Mode - Exits auto underscore mode.
switch. <u>Request Status Word 1</u> - Sends diagnostic/ status word 1.	ESC DCl (n)	<u>Select Spacing Offset</u> - Adds or subtracts spacing between characters according to the next byte transmitted. (Bits 1 to 6 = spacing amount 0 to 64 units @ $1/120$ - inch ger unit; bit 7 = sign; 1 = subtract,
Request Status Word 2 - Sends diagnostic/ status word 2.		0 = add; bit 8 = parity.) (Clears with carriage return.)
Request Status Word 3 - Sends diagnostic/	esc bs	Fine Backspace - Backspaces (reverses) carriage by 1/120-inch.
<u>Suppress Printing</u> - (Clears with carriage return.)	ESC -	<u>Auto Center On</u> - Prints all subsequent characters received (until a carriage re- turn) centered between set margins.
Nonvolatile RAM (Optional)	ESC M	Auto Justifying On - Expands or compresses first spacing between words then spacing
"Here is" Message - allows you to program a message of up to 32 characters for polled network operations.		between characters so that subsequent lines of characters received are printed to fit exactly between margins. If added space exceeds a specified amount, line is printed unjustified.

Models 3515/3525 Control Code and Escape Sequence Instruction Set (cont'd)

Models 3515/3525 Control Code and Escape Sequence Instruction Set (cont'd)

RECEIVED ASCII CHARACTERS	INSTRUCTION	RECEIVED ASCII CHARACTERS	INSTRUCTION
Word	Processing Assist Group (cont'd)	Раре	r Movement Escape Codes (cont'd)
ESC X	Exit All WP Modes - Exits program mode, auto bold mode, auto shadow mode, auto underscore mode, auto center, and auto justify.	ESC FF (n)	Remote Forms Length Set - Sets the form length to a length specified by the thir character, which is an ASCII characte whose decimal value is equal to the numbe of lines of the forms length (see Tabl 4-9).
Du ESC DC4 A ESC DC4 B	al Bin Cut Sheet Feeder Control <u>Select Feeder Hopper 1</u> - Energizes Hopper 1 for feeding of next and subsequent sheets on command; de-energizes Hopper 2. Select Feeder Hopper 2	ESC RS (n)	Set Vertical Motion Index - Sets line fee to distance specified by third character (from 0 to 2 29/48 inches), which is a ASCII character whose decimal value is on greater than the number of increments th paper moves (see Table 4-8).
	Select Feeder Hopper 2 - Energizes Hopper 2 for feeding of next and subsequent sheets on command; de-energizes Hopper 1.	ESC P	Word Processing Assist Group
ESC DC4 C	Insert/Eject Sheets - Ejects current sheet in printing position and feeds new sheet to Top of Form position from selected		<u>Enter Proportional Spacing Mode</u> - Dis regards setting of spacing DIP switcher (see Appendix A) and conditions Spinwrite for 12 epi with proportional spacing.
ESC DC4 D	hopper. <u>Eject Sheet</u> - Ejects current sheet in printing position.	ESC Q ESC SO M	Exit Proportional Spacing Mode - Return spacing control to setting of spacin switches. Enter Program Mode - Enters host-computed
·	Front Inserter Control		directed proportional spacing mode whe all printable character, spacing, and CZ codes are accompanied by a second by
ESC DC4 A	<u>Select Tractor Function - energizes forms</u> tractor for printing; de-energizes sheet inserter.		specifying spacing pitch and (in case of printable character) hammer impression level, and where a BS code causes revers carriage motion equal to last forwar spacing command.
ESC DC4 B	<u>Select Inserter Function</u> - energizes sheet inserter; de-energizes forms tractor.	ESC SI	Exit Program Mode - An "ESC X" sequence has the same function.
ESC DC4 C	<u>Insert</u> - inserts sheet from inserter pocket.	ESC O	Enter Auto Bold Print Mode - Enters mod where all subsequent printable character
ESC DC4 D	Eject - ejects sheet from printer; places it in inserter pocket.		are struck twice, with no intervenin Carriage or paper movement. If previous set, exits auto shadow mode. (Clears with carriage return.)

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	els 3510/3520, 3500R, and 3530 Control Code ape Sequence Instruction Set (cont'd)
RECEIVED ASCII CHARACTERS	INSTRUCTION
Pape	er Movement Escape Codes (cont'd)
ESC] (n)	Set Line Pitch - Sets line feed to dis- tance specified by third character, from 1/48-inch to 16/48-inch (see Table 4-2).
	Word Processing Assist Group
ESC H (Not on Model 3500R)	Enter Proportional Spacing Mode - Dis- regards setting of spacing DIP switch (see Appendix A) and conditions Spinwriter for 12 cpi with proportional spacing.
ESC I (Not on Model 3500R)	Exit Proportional Spacing Mode - Returns spacing control to setting of spacing DIP switch (see Appendix A).
ESC E	Enter Program Mode - Enters host-computer- directed proportional spacing mode where all printable character, spacing, and CAN codes are accompanied by a second byte specifying spacing pitch and (in case of printable character) hammer impression level and where a BS code causes reverse carriage motion equal to last forward spacing command.
ESC G or & (Not & on Model 3500R)	Exit Program Mode - Exits the program mode.
ESC * (Not on Model 3500R	Enter Auto Bold Mode - Enters mode where all subsequent printable characters are struck twice with no intervening carriage or paper movement. If previously set, exits auto shadow mode. (Clears with carriage return.)
ESC + (Not on Model 3500R)	Enter Auto Shadow Mode - Enters mode where all subsequent printable characters are struck twice with 1/120-inch of carriage movement between strikes and no inter- rvening paper movement. If previously set, exits auto bold mode. (Clears with carriage return.)

Models 3510/3520, 3500R, and 3530 Control Code and Escape Sequence Instruction Set (cont'd)

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	RECEIVED ASCII CHARACTERS	INSTRUCTION
	Dua	al Bin Cut Sheet Feeder Control
	ESC A	Select Feeder Hopper 1 - Energizes Hopper 1 for feeding of next and subsequent sheets on command; de-energizes Hopper 2.
	ESC B	Select Feeder Hopper 2 - Energizes Hopper 2 for feeding of next and subsequent sheets on command; de-energizes Hopper 1.
	ESCNE	Insert/Eject Sheets - Ejects current sheet in printing position and feeds new sheet to top of form position from selected hopper.
	ESC \ F	Eject Sheet - Ejects current sheet in printing position.
		Front Inserter Control
	ESC A	Select Tractor Function - Energizes forms tractor for printing; de-energizes sheet inserter.
	esc B	<u>Select Inserter Function</u> - Energizes sheet inserter; de-energizes forms tractor.
	esc \ E	<u>Insert</u> - Inserts sheet from inserter pocket.
	ESC \ F	Eject - Ejects sheet from printer; places it in inserter pocket.
		Graphics Mode
	ESC .	Enter Graphics Mode - Enters a mode where carriage movement does not occur auto- matically when a character is printed and where movements of the carriage in re- sponse to space and backspace of 1/60- inch, and movements of paper in response to line feed are redefined.
	ESC /	Exit Graphics Mode - Exits the graphics mode.

Models 3510/3520, 3500R, and 3530 Control Code and Escape Sequence Instruction Set (cont'd)

Models 3510/3520, 3500R, and 3530 Control Code and Escape Sequence Instruction Set (cont'd)

RECEIVED ASCII CHARACTERS	INSTRUCTIÓN	RECEIVED ASCII CHARACTERS	INSTRUCTION
	Processing Assist Group (cont'd)		Remote Diagnostics
ESC , (Not on Model 3500R) ESC - (minus sign) (Not on Model 3500R)	Exit Auto Bold or Shadow Mode - Exits whichever of these two modes is set. (Note that Carriage return or "ESC &" codes also exit these modes.) Enter Auto Underscore Mode - Enters a mode where the subsequent character string (ending by an ESC ') is printed, the car- riage is reversed to the first character in the string, then an underscore (_) is printed under all characters in the string.	ESC # A (Not on Model 3530) ESC # B (Not on Model 3530)	Initialize Spinwriter - Executes an Initialize sequence same as normally oc- curs at Spinwriter power on. Erases tab settings. Reset - Executes reset sequence same as normally occurs when pressing RESET switch.
ESC ' (Not on Model 3500R)	Exit Auto Underscore Mode - Exits the auto underscore mode.	ESC # 1 (Not on Model 3530)	Request Status Word 1 - Sends diagnostic/ status word 1.
₽5C % (n)	Select Spacing Offset - Adds or subtracts spacing between characters according to the next byte transmitted. (Bits 1 to 4 = spacing amount 0 to 15 units 0 1/120th of an inch per unit; bit 5 = sign; 1 = subtract, 0 = add, bit 6 = any, bit 7 = 1, bit 8 = parity.) (Clears with car- riage return.)	ESC # 2 (Not on Models 3530 or 3500R)	<u>Request Status Word 2</u> - Sends diagnostic/ status word 2.
ESC 8 (Not on Model 3500R)	<u>Fine Backspace</u> - Backspaces (reverses) carriage by 1/120-inch.	ESC # 3 {Not on Models 3530 or 3500R}	Request Status Word 3 - Sends diagnostic/ status word 3.
ESC \$ A (Not on Model 3500R) ESC \$ B (Not on Model 3500R)	Auto Center On - Prints all subsequent characters received (until a carriage return) centered between set margins. Auto Justify On - Expands or compresses first spacing between words then spacing between characters so that subsequent	ESC # P (Not on Models 3530 or 3500R)	Suppress Printing - (Clears with carriage return.)
	lines of characters received are printed to fit exactly between margins. If added space exceeds a specified amount, line is	Non-Volatile RAM (Optional)	
ESC &	<pre>spect of the appendix of the amount, line is printed unjustified. <u>Exit All WP Modes</u> - Exits program mode, auto bold mode, auto shadow mode, auto underscore mode, auto center, and auto justify.</pre>	ESC # (xxx xxESC #) (Not on Model 3500R)	"Here is" Message - Allows you to pro- gram a message of up to 32 characters for polled network operations.

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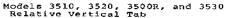
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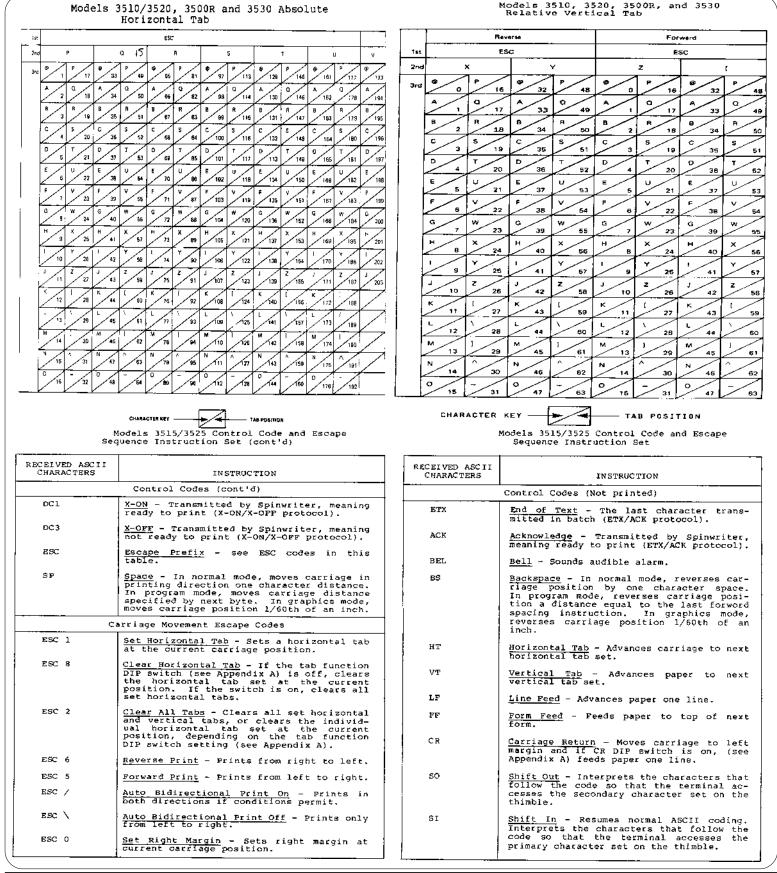
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Comprehensive Spinwriter 3500

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