Setup Instructions
Olympia Electronic Compact with D80X Interface

The Olympia Electronic Compact with D80X is a serial RS-232C receive only typewriter/printer. Its features are as follows:

* RS 232 Compatable
* Baud Rates from 75 to 19,200 Baud
* Selectable Handshake Polarity
* Selectable CR-LF logic
* Xon/Xoff Protocol supported
* ETX/ACK Protocol supported
* Approximately 70 character buffer

Computer Hookup

Refer to the operating instructions of the host computer to determine which pins should be connected for proper operation. Normally only three wires are needed. These are usually Ground, RTS (Handshake) and RXD (Receive Data). The above wires on the D80X interface connect to ground, Handshake (CTS-RTS-DTR, etc.) and TXD Transmit data on the host computer.

The DB 25 connector is delivered with the following configuration:

RTS (Handshake)	Pin 20
RXD (Receive Data)	Pin 3
TXD (Transmit Data)	Pin 2
GND (Signal Ground)	Pin 7

In an application which uses Xon/Xoff or ETX/ACK protocol, the RTS (Handshake) is not used, and the TXD (Transmit Data) is connected to the RXD (Receive Data) on the host computer.

The Electronic Compact is delivered with the baud rate preset to 1200 baud and the handshake polarity high ready. The carriage return and line feed logic is set such that a CR=Carriage Return plus Line Feed and LF is ignored.

Provisions are made for changing these defaults is necessary. If you wish to change any of these defaults, procede with the instructions below:

To Change Defaults

1. Remove upper housing of the Olympia Electronic Compact Typewriter by removing two screws on the rear of the bottom housing. Remove the platten knob and unsnap the upper housing.

2. Remove the two screws which hold down the keyboard assembly.

3. Turn the keyboard assembly upside down to access the main logic board.

4. Baud Rate Setting - Set the baud rate to match the baud rate of the host computer by installing the jumper plug on the D80X board alongside the baud rate you wish to operate at. Baud rates from 75 to 19,200 are possible.
   See illustration #1.

5. Setting of jumpers on header marked A thru H:
   See illustration #1 (Option Setting)

   a.

Code	Jumper "A" Not Installed	Jumper "A" Installed
CR	Carriage Return + Line Feed	Express
LF	Ignored	Carriage Return + Line Feed

   b.

Jumper "E" Not Installed	Jumper "E" Installed
RTS Handshake Polarity High Ready	RTS Handshake Polarity Low Ready

   Note: Jumpers B-C-D-F-G and H are not used.

6. Once you have made the proper connections above, it is time to reposition the keyboard assembly.

   Position the keyboard assembly and reinstall the two mounting screws.

7. Replace upper housing and platten knob and reinstall the two screws on the lower housing.

The D80X interface is now setup. Turn on the typewriter and test it for proper operation from its keyboard. If it performs properly, proceed with the hook up to the host computer.

Attached is an ASCII Code Chart for the Olympia Electronic Compact with D80X Interface. Please note that the typewriter keyboard has several characters which are not part of the normal ASCII Code Set. These characters are printable by using the substitute ASCII characters which are all listed in the ASCII Code Chart.

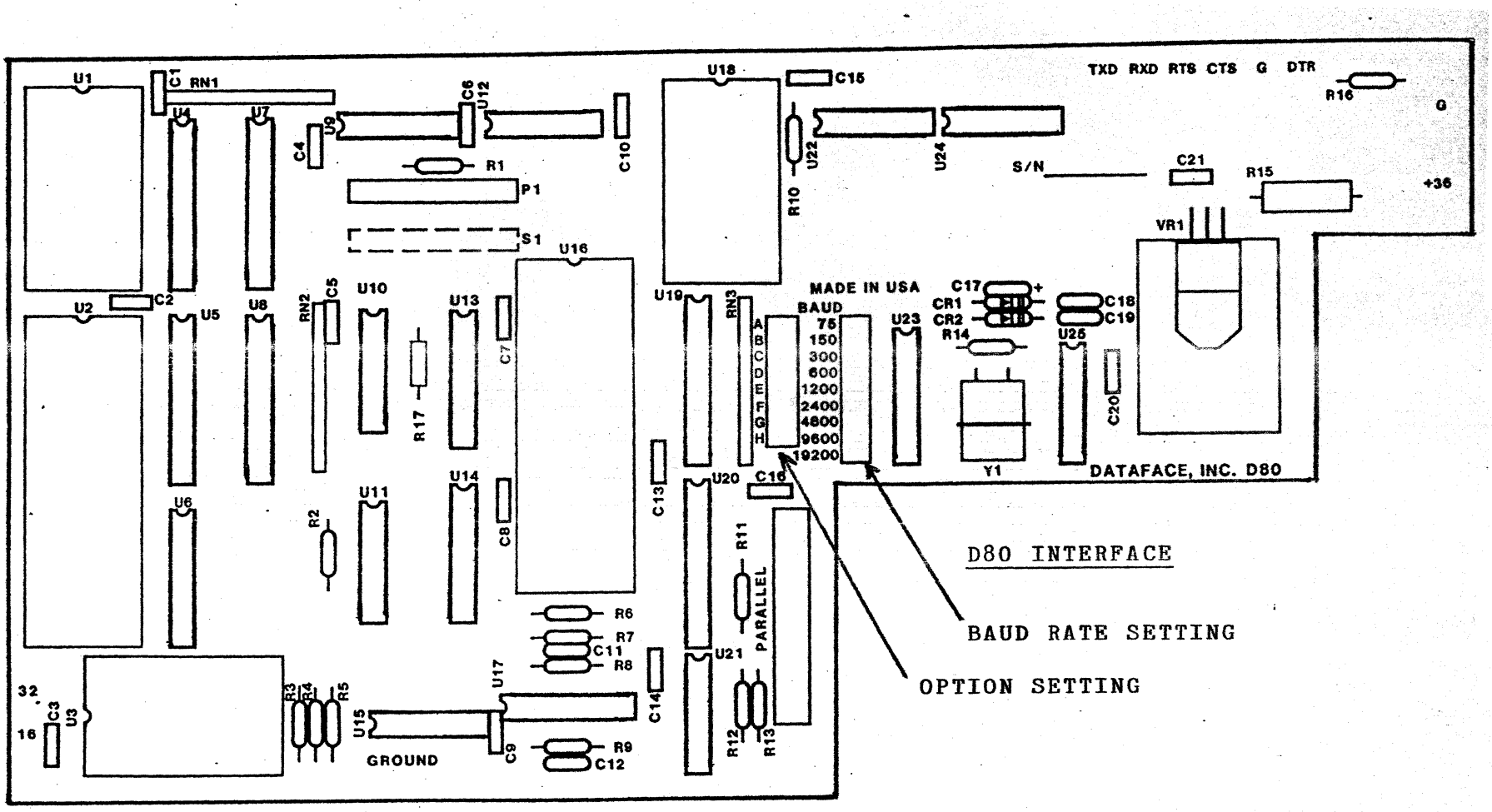

ILLUSTRATION #1

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D80X Interface Code Set

ASCII CODE

Dec.	Hex.	ASCII	D80X Output	Description
3	3	ETX	ETX	End of Text
6	6	ACK	ACK	Acknowledge
7	7	BEL	Bell & Mar. Release	Ring Bell & Margin Release
8	8	BS	Back Space	
9	9	HT	Horizontal Tab	
10	A	LF	Line Feed (Option)	Jumper Selectable enabl
12	C	FF	Form Feed	
13	D	CR	Carr.- ret. & LF	Carriage Return only if LF is enabled
17	11	DC1	X-ON	
19	13	DC3	X-OFF	
32	20	SP	Space	Horizontal Space
33	21	!	!	Exclamation Point
34	22	"	"	Quotation Mark
35	23	#	#	Number Sign
36	24	$	$	Dollar Sign
37	25	%	%	Percent Sign
38	26	&	&	Ampersand
39	27	'	'	Acute accent or apostrophe
40	28	(	(	Open Parenthesis
41	29	)	)	Closed Parenthesis
42	2A	*	*	Astrisk
43	2B	+	+	Plus Sign
44	2C	,	,	Comma

Dec.	Hex.	ASCII	D80X Output	Description
45	2D	-	-	Hyphen or Minus Sign
46	2E	.	.	Period
47	2F	/	/	Slash
48	30	0	0	Number 0
49	31	1	1	Number 1
50	32	2	2	Number 2
51	33	3	3	Number 3
52	34	4	4	Number 4
53	35	5	5	Number 5
54	36	6	6	Number 6
55	37	7	7	Number 7
56	38	8	8	Number 8
57	39	9	9	Number 9
58	3A	:	:	Colon
59	3B	;	;	Semicolon
*60	3C	<	±	Less than symbol changes to plus/minus
61	3D	=	=	Equal
*62	3E	>	°	Greater than symbol changes to degree
63	3F	?	?	Question Mark
64	40	@	@	At Sign
65	41	A	A	Captial A
66	42	B	B	Capital B
67	43	C	C	Captial C
68	44	D	D	Capital D
69	45	E	E	Capital E

Dec.	Hex.	ASCII	D80X Output	Description
70	46	F	F	Capital F
71	47	G	G	Capital G
72	48	H	H	Capital H
73	49	I	I	Capital I
74	4A	J	J	Capital J
75	4B	K	K	Capital K
76	4C	L	L	Capital L
77	4D	M	M	Capital M
78	4E	N	N	Capital N
79	4F	O	O	Capital O
80	50	P	P	Capital P
81	51	Q	Q	Capital Q
82	52	R	R	Capital R
83	53	S	S	Capital S
84	54	T	T	Capital T
85	55	U	U	Capital U
86	56	V	V	Capital V
87	57	W	W	Capital W
88	58	X	X	Capital X
89	59	Y	Y	Capital Y
90	5A	Z	Z	Capital Z
91	5B	[	[	Open Bracket
*92	5C	\	§	Back Slash symbol changes to section
93	5D	]	]	Close Bracket
*94	5E	^	¢	Caret symbol changes to cent sign
95	5F	_	_	Underscore

Dec.	Hex.	ASCII	D80X Output	Description
*96	60	`	¶	Grave accent symbol changes to paragraph
97	61	a	a	Letter a
98	62	b	b	Letter b
99	63	c	c	Letter c
100	64	d	d	Letter d
101	65	e	e	Letter e
102	66	f	f	Letter f
103	67	g	g	Letter g
104	68	h	h	Letter h
105	69	i	i	Letter i
106	6A	j	j	Letter j
107	6B	k	k	Letter k
108	6C	l	l	Letter l
109	6D	m	m	Letter m
110	6E	n	n	Letter n
111	6F	o	o	Letter o
112	70	p	p	Letter p
113	71	q	q	Letter q
114	72	r	r	Letter r
115	73	s	s	Letter s
116	74	t	t	Letter t
117	75	u	u	Letter u
118	76	v	v	Letter v
119	77	w	w	Letter w
120	78	x	x	Letter x
121	79	y	y	Letter y

Dec.	Hex.	ASCII	D80X Output	Description
122	7A	z	z	Letter z
*123	7B	{	1/2	Left brace symbol changes to 1/2
*124	7C	|	1/4	Vertical bar symbol changes to 1/4
*125	7D	}	²	Right brace symbol changes to superscript 2
*126	7E	~	³	Tilde symbol changes to superscript 3
127	7F	DEL	DEL	Delete last character
*27;85 or27;117	1B;55 or 1B;75	ESC U	Index	1/2 Line feed positive
*27;68 or27;100	1B;44 or 1B;64	ESC D	Rev. Index	1/2 Line feed negative
*27;32	1B;20	ESC SP	1/2 Space	Horizontal Half Space

* All codes preceded by the asterisk convert a ASCII character to a character present on the typewriter daisy wheel which is not part of the ASCII code set.