

APPENDIX A

The ASCII Codes

Appendix A is divided into four parts. Part 1 lists the display symbols and ASCII codes for the usual control keys. Part 2 lists the functions of the different control key combinations. This list also includes a few non-standard control key combinations that have higher order ASCII codes. Part 3 lists the (usual) ASCII codes. These are the ones from 32 through 127. Part 4 lists the *higher order ASCII codes* peculiar to ADAM.

Part 1

Display symbols and ASCII codes for control keys

ASCII CODE	KEY (COMBINATION)	DISPLAY SYMBOL	ASCII CODE	KEY (COMBINATION)	DISPLAY SYMBOL
0	CONTROL/@		16	CONTROL/P	
1	CONTROL/A	␣	17	CONTROL/Q	␣
2	CONTROL/B	␣	18	CONTROL/R	␣
3	CONTROL/C	␣	19	CONTROL/S	␣
4	CONTROL/D	␣	20	CONTROL/T	␣
5	CONTROL/E	␣	21	CONTROL/U	␣
6	CONTROL/F	␣	22	CONTROL/V	
7	CONTROL/G		23	CONTROL/W	␣
8	CONTROL/H		24	CONTROL/X	
9	CONTROL/I		25	CONTROL/Y	␣
10	CONTROL/J		26	CONTROL/Z	␣
11	CONTROL/K	␣	27	CONTROL/[␣
12	CONTROL/L		28	CONTROL/\	
13	CONTROL/M		29	CONTROL/]	␣
14	CONTROL/N	␣	30	CONTROL/^	␣
15	CONTROL/O	␣	31	CONTROL/_	␣

Part 2

The Uses of Control Keys

CONTROL/C	Halts program processing
CONTROL/D	Used with a PRINT statement to direct output to, or receive output from a peripheral device.
CONTROL/G (*)	Rings the bell
CONTROL/H	Acts as a backspace
CONTROL/I	Acts as a tab
CONTROL/J	Forces a line feed
CONTROL/K (*)	Vertical tab
CONTROL/L	Clears screen (same as HOME command)
CONTROL/M (*)	Carriage return and line feed
CONTROL/N	Adds a space, CAUTION when used in editing mode acts only on the physical line. If used in the form of PRINT CHR\$(14) when the printer is activated will send the printhead running backwards.
CONTROL/O	Deletes a character, CAUTION when used in editing mode acts only on physical line. If used in the form of PRINT CHR\$(15) when the printer is activated will send the printhead running forward again.
CONTROL/P	Prints the screen
CONTROL/S	Suspends processing (including the printer) until any key is hit.
CONTROL/X	Causes ADAM to forget the line being typed. Prints a backslash \ to indicate this.
CONTROL -->	This is ASCII code 165. When used to edit a line this causes the character the cursor is under not to be read.
CONTROL <--	This is ASCII code 167. When used to edit a line this causes the character the cursor is under not to be forgotten.

The control key combinations marked with a * must be used in the form of PRINT CHR\$() to activate the specified function.

Part 3

The standard ASCII codes

The characters from 32 to 128 are standard on almost all microcomputers.

ASCII CODE	DISPLAY SYMBOL (AND KEYSTROKE)	ASCII CODE	DISPLAY SYMBOL (AND KEYSTROKE)
32	SPACE BAR	70	F
33	!	71	G
34	"	72	H
35	#	73	I
36	\$	74	J
37	%	75	K
38	&	76	L
39	'	77	M
40	(78	N
41)	79	O
42	*	80	P
43	+	81	Q
44	,	82	R
45	-	83	S
46	.	84	T
47	/	85	U
48	0	86	V
49	1	87	W
50	2	88	X
51	3	89	Y
52	4	90	Z
53	5	91	[
54	6	92	\
55	7	93]
56	8	94	^
57	9	95	_
58	:	96	`
59	;	97	a
60	<	98	b
61	=	99	c
62	>	100	d
63	?	101	e
64	@	102	f
65	A	103	g
66	B	104	h
67	C	105	i
68	D	106	j
69	E	107	k

ASCII CODE	DISPLAY SYMBOL (AND KEYSTROKE)	ASCII CODE	DISPLAY SYMBOL (AND KEYSTROKE)
108		118	
109		119	
110		120	
111		121	
112		122	
113		123	
114		124	
115		125	
116		126	
117		127	DELETE

Part 4

Codes Peculiar to ADAM

The ASCII codes higher than 128 are different on each computer. For ADAM these are used as the codes for the extra keys as well as to display reverse video.

ASCII CODE	KEY (COMBINATION)	DISPLAY SYMBOL	ASCII CODE	KEY (COMBINATION)	DISPLAY SYMBOL
128	Home Key		152	Shift & Wild Card	
129	Smart Key I		153	Shift & Undo	
130	Smart Key II		154	Shift & Move/Copy	
131	Smart Key III		155	Shift & Store/Get	
132	Smart Key IV		156	Shift & Insert	
133	Smart Key V		157	Shift & Print	
134	Smart Key VI		158	Shift & Clear	
135			159	Shift & Delete	
136			160	Up arrow	
137	Shift & Smart Key I		161	Right arrow	
138	Shift & Smart Key II		162	Down arrow	
139	Shift & Smart Key III		163	Left arrow	
140	Shift & Smart Key IV		164	Control and up arrow	
141	Shift & Smart Key V		165	Control and right arrow	
142	Shift & Smart Key VI		166	Control and down arrow	
143			167	Control and left arrow	
144	Wild Card		168	Up arrow and right arrow	
145	Undo		169	Down arrow and right arrow	
146	Move/Copy		170	Down arrow and left arrow	
147	Store/Get		171	Up arrow and left arrow	
148	Insert				
149	Print				
150	Clear				
151	Delete				

ASCII CODE	KEY (COMBINATION)	DISPLAY SYMBOL	ASCII CODE	KEY (COMBINATION)	DISPLAY SYMBOL
172	Home and up arrow	␣	215		W
173	Home and right arrow	␣	216		X
174	Home and down arrow	␣	217		Y
175	Home and left arrow	␣	218		Z
176		0	219		[
177		1	220		\
178		2	221]
179		3	222		^
180		4	223		_
181		5	224		`
182		6	225		a
183		7	226		b
184		8	227		c
185	Shift and TAB	9	228		d
186		:	229		e
187		;	230		f
188		<	231		g
189		=	232		h
190		>	233		i
191		?	234		j
192		@	235		k
193		A	236		l
194		B	237		m
195		C	238		n
196		D	239		o
197		E	240		p
198		F	241		q
199		G	242		r
200		H	243		s
201		I	244		t
202		J	245		u
203		K	246		v
204		L	247		w
205		M	248		x
206		N	249		y
207		O	250		z
208		P	251		{
209		Q	252		
210		R	253		}
211		S	254		~
212		T	255		␣
213		U	256		␣
214		V			