

Canon

X-07

HAND HELD COMPUTER

***BASIC
REFERENCE
CARD***

Instructions

BEEP

Function: Outputs sound from the speaker.

Format: BEEP <tone>, <duration>

Example: BEEP 100, 2

CIRCLE

Function: Draws a circle.

Format: CIRCLE [STEP] (<x coordinate>, <y coordinate>),
<radius>

Example: CIRCLE (98, 16), 8

CLEAR

Function: Initializes variables, and defines the memory area to be used.

Format: CLEAR [<string area> [, <upper limit of user area>]]

Example: CLEAR 100, 500

CLOAD

Function: Loads a file from a cassette tape.

Format: CLOAD ["<file name>"]

Example: CLOAD "PROG1"

CLOAD?

Function: Confirms a file on a cassette tape.

Format: CLOAD? ["<file name>"]

Example: CLOAD? "PROG1"

CLS

Function: Clears the LCD.

Format: CLS

Example: CLS

CONSOLE

Function: Sets the status of the console.

Format: CONSOLE [<scroll start line>] [, [<number of scroll lines>]
[, [<key display switch>] [, [<click sound switch>] [, [<key
repeat switch>]]]]]

Example: CONSOLE 1, 2, 1, 0, 1

CONSOLE @

Function: Turns on or off the alarm speaker, initializes the user defined
key characters and sets the keyboard mode.

Format: CONSOLE @ [[<alarm switch>] [, [<definition>],
[, [<key #mode>]]]]]

Example: CONSOLE @ „3

CONT

Function: Resumes program execution after it has been stopped.

Format: CONT

Example: CONT

CSAVE

Function: Saves the program in the text area of memory onto a cassette
tape.

Format: CSAVE "<file name>"

Example: CSAVE "PROG1"

DATA

Function: Specifies the values to be read by the READ statement.

Format: DATA <constant> [, <constant> ...]

Example: DATA 1, "X-07", "CANON COMPUTER", 3

DEFFN

Function: Defines a function.

Format: DEFFN <name> [(<argument> [, <argument> ...])] = <function definition>

Example: DEFFNZ (X, Y) = X*2 + Y*3 + 6

DEFINT/SGN/DBL/STR

Function: Declares variable types.

Format: DEF <type> <range(s) of letters>

Example: DEFINT I-N, X

DELETE

Function: Deletes a file from the RAM file.

Format: DELETE "<file name>" [, "<file type>"]

Example: DELETE "SAMPLE", "P"

DIM

Function: Declares an array or arrays.

Format: DIM <variable name> (<maximum value of subscript> [, <maximum value of subscript> ...]) [, <variable name> (<maximum value of subscript> [, <maximum value of subscript> ...]) ...

Example: DIM A\$(100), B(18, 16)

DIR

Function: Displays the contents of the RAM file.

Format: DIR [# <file number>]

Example: DIR #1

END

Function: Terminates program execution.

Format: END

Example: END

ERASE

Function: Erases an array or arrays.

Format: ERASE <array variable name> [, <array variable name> ...]

Example: ERASE A, B\$

ERROR

Function: Simulates the occurrence of an error.

Format: ERROR <error number>

Example: ERROR 200

EXEC

Function: Executes a machine language program.

Format: EXEC <start address>

Example: EXEC &H3000

FOR TO STEP ~ NEXT

Function: Repeatedly executes a series of instructions.

Format: FOR <variable> = <initial value> TO <final value> [STEP <increment>]

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NEXT

Example: FOR I = 1 TO 10: NEXT

FSET

Function: Sets the size of the RAM file.

Format: FSET <file area size>

Example: FSET 1024

Instructions

GOSUB ~ RETURN

Function: Executes a subroutine.
Format: GOSUB <line number>
Example: GOSUB 1000

GOTO

Function: Changes the flow of program execution.
Format: GOTO <line number>
Example: GOTO 2000

IF THEN ELSE

Function: Decides the condition specified by a logical expression.

Format: If <logical expression> THEN <statement> <line number>
GOTO <line number>
[ELSE <statement> <line number>]

Format: IF A = 0 THEN 100 ELSE A = 0:GOTO 200

INIT

Function: Sets a device ready for operation.

Format: INIT # <file number>, "<file descriptor>",
[<file size> [, "<file type>"]
[<baud rate> [, "<mode>"]]

Example: INIT #2, "FILE 1", 100, "D"

INPUT

Function: Inputs data to variables.

Format: INPUT ["<prompt string>";] <variable> [, <variable> ...]

Example: INPUT "YOUR NAME"; N\$

INPUT

Function: Reads data from a file, and assigns them to variables.

Format: INPUT # <file number>, <variable> [, <variable> ...]

Example: INPUT #1, A, B\$

LET

Function: Assigns a value to a variable.

Format: [LET] <variable> = <expression>

Example: LET P1 = 3.1415926545898

LINE

Function: Draws a line.

Format: LINE [STEP] [(<X coordinate>, <Y coordinate>)]-[STEP] (<x coordinate>, <y coordinate>)

Example: LINE (0,0)-(119,31)

LINE INPUT

Function: Inputs an entire line.

Format: LINE INPUT ["<prompt string>";] <string variable>

Example: LINE INPUT "WHAT IS YOUR NAME"; N\$

LINE INPUT

Function: Inputs an entire line from a file.

Format: LINE INPUT # <file number>, <string variable>

Example: LINE INPUT #1, N\$

LIST

Function: Displays a list of the program in the text area of memory.

Format: LIST [<start line number>]-[<final line number>]

Example: LIST 100-200

LIST @

Function: Displays, line by line, the list of the program in the text area of memory.

Format: LIST @ [< start line number >] [-< final line number >]]

Example: LIST @100-200

LIST

Function: Outputs list of the program in the text area of memory to a file.

Format: LIST [@]# < file number > , [< start line number >] [-< final line number >]]

Example: LIST #1, 100-

LLIST

Function: Outputs list of the program in the text area of memory to a printer.

Format: LLIST [< start line number >] [-< final line number >]]

Example: LLIST

LOAD

Function: Loads a program from a file into the text area of memory.

Format: Load "< file descriptor >" [, | < file size > |
| < baud rate > |
[, | "< file type >" |]]
| "< mode >" |]]

Example: LOAD "OPT:", 2400, "B"

LOAD?

Function: Checks the contents of a program file.

Format: LOAD? "< file descriptor >" [, | < file size > |
| < baud rate > |
[, | "< file type >" |]]
| "< mode >" |]]

Example: LOAD? "COM:"

LOCATE

Function: Moves the cursor.

Format: LOCATE < horizontal position > , < vertical position >

Example: LOCATE 10, 0

LPRINT

Function: Outputs data to the graphic printer.

Format: LPRINT [([< character size >] [, < color >])] [,] [USING
"< format string > ";] [< expression > [, < expression > ...]]

Example: LPRINT [N, 0] "CANON"
LPRINT [2], USING " # # # "; A, B
LPRINT U\$

MOTOR

Function: Turns on the motor of a cassette recorder.

Format: MOTOR [| ON |
| OFF |]

Example: MOTOR ON

NEW

Function: Erases the program in the text area of memory.

Format: NEW

Example: NEW

NEXT

Function: Indicates the end of a loop.

Format: NEXT [< variable > [, < variable > ...]]

Example: NEXT I, J

OFF

Function: Turns off the power of the X-07.

Format: OFF [

1
2

]

Example: OFF

ON ERROR GOTO

Function: Defines branch destination line in case of error occurrence.

Format: ON ERROR GOTO <line number>

Example: ON ERROR GOTO 100

ON ~ GOSUB/ON ~ GOTO

Function: Branches to one of several lines depending on the value of an expression.

Format: ON <expression>

GOSUB
GOTO

 <line number₁> [, <line number₂> ...]

Example: ON I GOSUB 100, 130, 230, 250

OUT

Function: Outputs data to the output port.

Format: OUT <port address>, <expression>

Example: OUT &H7F, &H84

OUT

Function: Outputs a value to a file.

Format: OUT # <file number>, <expression>

Example: OUT #1, 18

POKE

Function: Writes a numeric value into memory.

Format: POKE <address>, <expression>

Example: POKE &H0C00, &HC9

PRESET

Function: Erases a dot.

Format: PRESET [STEP] (<x coordinate>, <y coordinate>)

Example: PRESET (40, 25)

PRINT

Function: Outputs data to the LCD.

Format: PRINT [<expression> [

,
:

 <expression> ...]

Example: PRINT "CA"; "NO", "N", 3*2
? "CANON"

PRINT USING

Function: Outputs string or numeric constants according to a specified format.

Format: PRINT USING "<format string>"; [<expression> [, <expression>...]]

Example: PRINT USING " # # # "; A

PRINT

Function: Outputs data to a file.

Format: PRINT # <file number>, [USING "<format string>";]
[<expression> [

,
:

 <expression> ...]]

Example: PRINT # 1, "CANON"

PSET

Function: Draws a dot.
Format: PSET [STEP] (<x coordinate>, <y coordinate>)
Example: PSET (40, 25)

READ

Function: Reads constants from a DATA statement and assigns them to variables.
Format: READ <variable> [, <variable> ...]
Example: READ A, I, M\$

REM

Function: Inserts remarks.
Format: REM [<remark>]
Example: REM ::**COMP**::
 'CANON

RESTORE

Function: Reuses a set of data.
Format: RESTORE [<line number>]
Example: RESTORE 1000

RESUME

Function: Resumes program execution after an error recovery procedure.
Format: RESUME [| NEXT | <line number> |]
Example: RESUME 100

RETURN

Function: Indicates the end of a subroutine.
Format: RETURN
Example: RETURN

RUN

Function: Executes the program in the text area of memory.
Format: RUN [<line number>]
Example: RUN 1000

RUN "file descriptor"

Function: Executes a program in the RAM file.
Format: RUN "[RAM:] <file name>" [, <file type>"]
Example: RUN "RAM: FILE1"

SAVE

Function: Saves the program in the text area of memory into a file.
Format: SAVE "<file descriptor>" [, | <file size> | <baud rate> | [, | "<file type>" | | "<mode>" |]]
Example: SAVE "OPT:", 1200 "B"

SLEEP

Function: Retains displays, variables, etc. when the power of the X-07 is turned off.
Format: SLEEP
Example: SLEEP

STOP

Function: Terminates program execution.
Format: STOP
Example: STOP

Instructions / Functions

TROFF

Function: Terminates the trace mode.
Format: TROFF
Example: TROFF

TRON

Function: Displays the line being executed.
Format: TRON [# <file number>]
Example: TRON #1

Functions

ABS

Function: Returns the absolute value of a numeric expression.
Format: ABS (<numeric expression>)
Example: PRINT ABS (-1.8)

ALM\$

Function: Sets the alarm.
Format: ALM\$ = "[<year>], [<month>], [<day>], [<day of week>], [<hours>], [<minutes>]"
Example: ALM\$ = "1983//, &H13, 8: 15"

ASC

Function: Returns the character code of the first character of a string expression.
Format: ASC (<string expression>)
Example: PRINT ASC ("A")

ATN

Function: Returns the arctangent value of a numeric expression in radians.
Format: ATN (<numeric expression>)
Example: A = ATN (0.5)

CDBL

Function: Converts the value of a numeric expression into a double-precision real number-type constant.
Format: CDBL (<numeric expression>)
Example: A# = CDBL (B!)

CHR\$

Function: Returns the character specified by a character code.
Format: CHR\$ (<character code>)
Example: PRINT CHR\$ (&H41)

CINT

Function: Converts the value of a numeric expression into an integer-type constant.
Format: CINT (<numeric expression>)
Example: A% = CINT (B#)

COS

Function: Returns the cosine value of a numeric expression in radians.
Format: COS (<numeric expression>)
Example: A = COS (3.1415926535898/3)

CSNG

Function: Converts the value of a numeric expression into a single-precision real number-type constant.
Format: CSNG (<numeric expression>)
Example: A! = CSNG (B#)

Functions

CSRLIN

Function: Returns the vertical position of the cursor on the LCD.

Format: CSRLIN

Example: Y = CSRLIN

DATE\$

Function: Sets the calendar.

Format: DATE\$ = "[<year>]/[<month>]/[<day>]"

Example: DATE\$ = "1983/8/22"

ERL

Function: Returns the line number of the program line in which an error occurred.

Format: ERL

Example: L = ERL

ERR

Function: Returns the error code of the cause of an error.

Format: ERR

Example: C = ERR

EXP

Function: Returns the exponent of the value of a numeric expression.

Format: EXP (<numeric expression>)

Example: E = EXP (1)

FIX

Function: Returns the integer part of a numeric expression.

Format: FIX (<numeric expression>)

Example: A = FIX (B)

FONT\$

Function: Specifies a user defined character.

Format: FONT\$ (<character code>) = "<variable₁> ,..., <variable_g>"

Example: FONT\$ (128) = "56, 56, 16, 124, 144, 40, 68, 132"

FRE

Function: Returns the unused area of memory in number of bytes.

Format: FRE (<expression>)

Example: PRINT FRE (A\$)

HEX\$

Function: Returns the string which represents the hexadecimal value of a numeric expression.

Format: HEX\$ (<numeric expression>)

Example: PRINT HEX\$ (255)

INKEY\$

Function: Returns the character of the key being depressed.

Format: INKEY\$

Example: A\$ = INKEY\$

INP

Function: Returns data from a file or a port address.

Format: INP (# <file name>)

INP (<port address>)

Example: A = INP (&H84)

INSTR

Function: Searches for occurrence of string 2 in string 1, and when it is found, returns the position of occurrence.

Format: INSTR ([<numeric expression>], <string 1>, <string 2>)

Example: N = INSTR (B\$, "N")

Functions

INT

Function: Returns the largest integer which is not greater than the numeric expression.

Format: INT (<numeric expression>)

Example: A = INT (B)

KEY\$

Function: Defines the contents of a user defined key.

Format: KEY\$ (<key number>) = "<string expression>"

Example: KEY\$ (3) = "RUNRUN" + CHR\$ (13)

LEFT\$

Function: Returns a string consisting of left most characters from a string.

Format: LEFT\$ (<string>, <length>)

Example: PRINT LEFT\$ ("CANON", 3)

LEN

Function: Returns the length of a string.

Format: LEN (<string>)

Example: N = LEN (A\$)

LOG

Function: Returns the natural logarithm of a numeric expression.

Format: LOG (<expression>)

Example: A = LOG (B)

MID\$

Function: Returns a string consisting of specified length of characters from a string.

Format: MID\$ (<string>, <expression 1> [, <expression 2>])

Example: A\$ = MID\$ (B\$, 3, 2)

PEEK

Function: Returns the contents of memory.

Function: PEEK (address)

Example: A = PEEK (&H0)

POINT

Function: Checks for a dot.

Format: POINT [STEP] (<x coordinate>, <y coordinate>)

Example: A = POINT (110, 10)

POS

Function: Returns the horizontal position of the cursor.

Format: POS (<expression>)

Example: X = POS (0)

RIGHT\$

Function: Returns a string of specified length, consisting of right most characters of a string.

Format: RIGHT\$ (<string>, <length>)

Example: PRINT RIGHT\$ ("CANON", 3)

RND

Function: Generates random numbers.

Format: RND (<numeric expression>)

Example: A = RND (1)

SCREEN

Function: Returns the character code of a character displayed on the LCD.

Format: SCREEN (<horizontal position>, <vertical position>)

Example: PRINT SCREEN (X, Y)

Functions

SGN

Function: Returns a value according to the value of a numeric expression.

Format: SGN (<numeric expression>)

Example: PRINT SGN (-1.2)

SIN

Function: Returns the sine value of a numeric expression in radians.

Format: SIN (<numeric expression>)

Example: A = SIN (3.1415926535898/3)

SNS

Function: Inputs data from an input device.

Format: SNS (# <file number> [, <expression>])

Example: A = SNS (# 1, &HFF)

SQR

Function: Returns the square root value of a numeric expression.

Format: SQR (<numeric expression>)

Example: A = SQR (2)

START\$

Function: Sets a program as the start program.

Format: START\$ = <string expression>

Example: START\$ = "RUN" + CHR\$ (13)

STICK

Function: Returns the status of the cursor Keys.

Format: STICK (<expression>)

Example: A = STICK (0)

STR\$

Function: Returns a string representation of a numeric value.

Format: STR\$ (<numeric expression>)

Example: A\$ + STR\$ (123)

STRIG

Function: Returns the status of the space key and the user defined key 6.

Format: STRIG (<expression>)

Example: A = STRIG (0)

STRING\$

Function: Returns a string of a specified length.

Format: STRING\$ (<numeric expression₁> ,
| <string expression> |
| <numeric expression₂> |)

Example: PRINT STRING\$ (5, "A")

TAB

Function: Sets a tab.

Format: TAB (<numeric expression>)

Example: PRINT TAB (8); "CANON"

TAN

Function: Returns the tangent value of a numeric expression in radians.

Format: TAN (<numeric expression>)

Example: A = TAN (3.1415926535898)

TIMES

Function: Sets the hours, minutes, and seconds of the timer.

Format: TIMES\$ = "[<hours>]:[<minutes>]:[<seconds>]"

Example: TIMES\$ = "23:53:25"

Functions

TKEY

Function: Returns the status of a key.

Format: TKEY (<string>)

Example: A = TKEY ("A")

USR

Function: Calls a machine language subroutine.

Format: USR (<start address>, <argument>)

Example: A = USR (&H0C00", B)

VAL

Function: Returns the numeric value of a string expression.

Format: VAL (<string expression>)

Example: A = VAL ("123")

VARPTR

Function: Returns the address of a stored variable.

Format: VARPTR (<variable>)

Example: A = VARPTR (B)

Graphic instructions

Instruction	Meaning·Format·Function
A	ALL INITIALIZE The pen is lifted from the paper and returned to the left corner. This point becomes the start point, and the X07-BASIC returns to the text mode.
C	COLOR CHANGE Cn (n = 0...black, 1...blue, 2...green, 3...red) Select the pen according to the color code.
D	DRAW D x ₁ , y ₁ , ... x _n , y _n Starting from the current pen position, lines are drawn by connecting each points successively.
F	NEW LINE Carriage return and line feed are executed only when alpha rotate (Q) is 0.
H	HOME The pen is lifted from the paper and returned to the start point
I	INITIALIZE The current pen position becomes the start point.
J	RELATIVE DRAW J Δx ₁ , Δy ₁ , ..., Δx _n , Δy _n Starting from the current pen position, lines are drawn one by one to the relative point (x _n , y _n)
L	LINE TYPE Lp (p = 0 ~ 15) Specifies the pitch of dotted line: 0 = solid line, 1 ~ 15 = dotted line.
M	MOVE M x, y The pen is lifted and moved to (x, y).
P	PRINT P c ₁ c ₂ c ₃ ... c _n (n < 256) Prints characters in the graphic mode.
Q	ALPHA ROTATE Qn (n = 0 ~ 3) Changes the angle of characters.
R	RELATIVE MOVE R Δx, Δy Moves the pen by (Δx, Δy) from the current pen position.
S	SCALE SET S _n (n = 0 ~ 15) Changes the character size.

Character code table

Decimal form	Hexa-decimal form	Charac-ter	Decimal form	Hexa-decimal form	Charac-ter	Decimal form	Hexa-decimal form	Charac-ter	Decimal form	Hexa-decimal form	Charac-ter
0	00	Refer to the control code table	32	20		64	40	a	96	60	'
1	01		33	21	!	65	41	A	97	61	a
2	02		34	22	"	66	42	B	98	62	b
3	03		35	23	#	67	43	C	99	63	c
4	04		36	24	\$	68	44	D	100	64	d
5	05		37	25	%	69	45	E	101	65	e
6	06		38	26	&	70	46	F	102	66	f
7	07		39	27	'	71	47	G	103	67	g
8	08		40	28	(	72	48	H	104	68	h
9	09		41	29	)	73	49	I	105	69	i
10	0A		42	2A	*	74	4A	J	106	6A	j
11	0B		43	2B	+	75	4B	K	107	6B	k
12	0C		44	2C	,	76	4C	L	108	6C	l
13	0D		45	2D	-	77	4D	M	109	6D	m
14	0E		46	2E	.	78	4E	N	110	6E	n
15	0F		47	2F		79	4F	O	111	6F	o
16	10		48	30	0	80	50	P	112	70	p
17	11		49	31	1	81	51	Q	113	71	q
18	12		50	32	2	82	52	R	114	72	r
19	13		51	33	3	83	53	S	115	73	s
20	14		52	34	4	84	54	T	116	74	t
21	15		53	35	5	85	55	U	117	75	u
22	16		54	36	6	86	56	V	118	76	v
23	17		55	37	7	87	57	W	119	77	w
24	18		56	38	8	88	58	X	120	78	x
25	19		57	39	9	89	59	Y	121	79	y
26	1A		58	3A	:	90	5A	Z	122	7A	z
27	1B		59	3B	;	91	5B	[	123	7B	[
28	1C		60	3C	<	92	5C	\	124	7C	\
29	1D		61	3D	=	93	5D	]	125	7D]
30	1E		62	3E	>	94	5E	^	126	7E	^
31	1F		63	3F	?	95	5F	_	127	7F	_

Device table

Device name	Meaning	Output	Input	1st parameter	2nd paramater
CON:	Console	○	○		
KBD:	Keyboard	○			
COM:	Serial I/O (RS-232C)	○	○	Baud rate: 100 ~ 8000 Default: 4800	ACIA mode: A ~ H Default: B
OPT:	Optical coupler	○	○	Baud rate: 100 ~ 2400 Default: 1200	ACIA mode: A ~ H Default: B
GPR:	Graphic printer		○		
LPT:	Centronics-type printer		○		
PRT:	Thermal printer		○	300 baud, fixed	
CASI:	Cassette recorder input	○		1200 baud, fixed	Mode B, fixed
CASO:	Cassette recorder output		○	1200 baud, fixed	Mode B, fixed
RAM:	RAM file	○	○	Size: number of bytes	Data type: A ~ Z Default: D

Character code table

Decimal form	Hexa-decimal form	Charac-ter	Decimal form	Hexa-decimal form	Charac-ter	Decimal form	Hexa-decimal form	Charac-ter	Decimal form	Hexa-decimal form	Charac-ter
128	80	♠	160	A0	✓	192	C0	♣	224	E0	ô
129	81	♥	161	A1	◦	193	C1	チ	225	E1	ò
130	82	♣	162	A2	「	194	C2	ツ	226	E2	ó
131	83	♦	163	A3	」	195	C3	テ	227	E3	ÿ
132	84	○	164	A4	、	196	C4	ト	228	E4	Ç
133	85	●	165	A5	+	197	C5	ナ	229	E5	ç
134	86	A	166	A6	ヲ	198	C6	ニ	230	E6	Ñ
135	87	À	167	A7	ア	199	C7	ヌ	231	E7	ñ
136	88	à	168	A8	イ	200	C8	ネ	232	E8	Γ
137	89	â	169	A9	ウ	201	C9	ノ	233	E9	Σ
138	8A	â	170	AA	エ	202	CA	ハ	234	EA	Π
139	8B	á	171	AB	オ	203	CB	ヒ	235	EB	Ω
140	8C	ã	172	AC	ヤ	204	CC	フ	236	EC	α
141	8D	ä	173	AD	ユ	205	CD	ヘ	237	ED	β
142	8E	Ä	174	AE	ヨ	206	CE	ホ	238	EE	γ
143	8F	ï	175	AF	ツ	207	CF	マ	239	EF	ð
144	90	ì	176	B0	ー	208	D0	ミ	240	F0	ε
145	91	í	177	B1	ア	209	D1	ム	241	F1	δ
146	92	î	178	B2	イ	210	D2	メ	242	F2	θ
147	93	Û	179	B3	ウ	211	D3	モ	243	F3	χ
148	94	ü	180	B4	エ	212	D4	ヤ	244	F4	λ
149	95	û	181	B5	オ	213	D5	ユ	245	F5	μ
150	96	ù	182	B6	カ	214	D6	ヨ	246	F6	ρ
151	97	ú	183	B7	キ	215	D7	ラ	247	F7	π
152	98	Ë	184	B8	ク	216	D8	リ	248	F8	τ
153	99	ë	185	B9	ケ	217	D9	ル	249	F9	φ
154	9A	è	186	BA	コ	218	DA	レ	250	FA	χ
155	9B	é	187	BB	サ	219	DB	ロ	251	FB	ω
156	9C	ê	188	BC	シ	220	DC	ワ	252	FC	ν
157	9D	Ë	189	BD	ス	221	DD	ン	253	FD	ξ
158	9E	ö	190	BE	セ	222	DE	。	254	FE	€
159	9F	ò	191	BF	ソ	223	DF	。	255	FF	÷

Printer control code table

Code	Function
CHR\$(8)	BS (Back space)
CHR\$(10)	LF (Line Feed)
CHR\$(11)	LU (Line Up)
CHR\$(13)	CR (Carriage Return)
CHR\$(17)	DC1 (Text Mode)
CHR\$(18)	DC2 (Graphic Mode)

ACIA mode table

Mode	A B C D E F G H	Operation
EP	0 0 0 0 1 1 1 1	Parity 1 = Even 0 = Odd
PEN	0 0 1 1 0 0 1 1	Parity 1 = Enable 0 = Disable
CBL	0 1 0 1 0 1 0 1	Bit length 1 = 8 bits 0 = 7 bits

Control code table

Code	Function	Corresponding key
0	Null string	
1		[CTRL] + [A]
2	Returns to the top of the previous word.	[CTRL] + [B]
3	Stops execution.	[CTRL] + [C] , [BREAK]
4		[CTRL] + [D]
5	Erases the following line.	[CTRL] + [E]
6	Moves to the top of the next word.	[CTRL] + [F]
7	Outputs sound from the speaker.	[CTRL] + [G]
8	Erases the previous character.	[CTRL] + [H]
9	Tab.	[CTRL] + [I]
10	Line feed.	[CTRL] + [J]
11	Returns the cursor to the home position.	[CTRL] + [K] , [HOME]
12	Clears the LCD, and returns the cursor to the home position.	[CTRL] + [L] , [CLR]
13	Carriage return, and one line input.	[CTRL] + [M] , [RETURN]
14		[CTRL] + [N]
15		[CTRL] + [O]
16	Erase everything after the cursor.	[CTRL] + [P]
17		[CTRL] + [Q]
18	Inputs one space.	[CTRL] + [R] , [INS]
19	Temporarily stops command or program execution.	[CTRL] + [S]
20		[CTRL] + [T]
21	Erases the current cursor line, and returns the cursor to the beginning of the line.	[CTRL] + [U]
22	Erases the character at the cursor position.	[CTRL] + [V] , [DEL]
23		[CTRL] + [W]
24	Moves the cursor to the end of the line.	[CTRL] + [X]
25		[CTRL] + [Y]
26		[CTRL] + [Z]
27		
28	Moves the cursor to the right by one position.	▶
29	Moves the cursor to the left by one position.	◀
30	Moves the cursor up by one line.	▲
31	Moves the cursor down by one line.	▼

Error message table

11	/O	Division by Zero Division by 0 has been executed.
25	BF	Bad File Mode The structure of a file is incorrect.
9	BS	Bad Subscript The subscript of an array is incorrect.
17	CN	Can't Continue Cannot resume program execution.
10	DD	Duplicate Definition An array or user defined function is defined twice.
5	FC	Illegal Function Call A statement or function is called incorrectly.
12	ID	Illegal Direct A statement has been input in the direct mode even when it is not allowed.
22	IO	Device I/O Error An error during input from or output to a device.
27	IR	Illegal Run Tried to direct RUN a file which has incorrect contents.
15	LS	String too Long A string is too long.
23	MO	Missing Operand A necessary parameter is missing.
24	NE	File not Exist The specified file does not exist.
1	NF	NEXT without FOR The FOR statement is missing.
26	NO	File not Open An undefined file number is used.
19	NR	No RESUME The RESUME statement is missing in an error recovery subroutine.
4	OD	Out of Data Data to be read by the READ statement is not supplied.
7	OM	Out of Memory Not enough memory.
14	OS	Out of String Space The string space is too small.
6	OV	Overflow Numeric values exceed the allowed range.
3	RG	RETURN without GOSUB The RETURN statement has been executed before the GOSUB statement.
20	RW	RESUME without Error The RESUME statement has been executed without the occurrence of an error.
2	SN	Syntax Error Incorrect grammar.
16	ST	String Formular too Complex A string expression is too complex.
13	TM	Type Mismatch The variable type is wrong.
18	UF	Undefined User Function Called on a undefined function.
8	UL	Undefined Line Number A line number is specified incorrectly.
—	UE	Undefined Error An error with an error code other than the above error code has occurred.