

TANDY®*

**Color
Computer
Disk System**

**Quick
Reference
Guide**

* TRADEMARKS OF TANDY CORPORATION

Color computer Disk BASIC
Quick Reference Guide:
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Disk BASIC**

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Introduction

Once you connect a floppy disk drive to your Color Computer, you automatically start up in Disk BASIC whenever you turn on the computer. You can verify that you have properly connected your disk interface cartridge and disk drive by looking at the screen. If everything is connected properly, the screen displays the DISK EXTENDED COLOR BASIC copyright message. If it is not, the screen displays the EXTENDED COLOR BASIC message.

This guide summarizes the commands you can use while in Disk BASIC. It also lists error messages you might receive.

Disk BASIC Commands

BACKUP source drive TO destination drive

Duplicates the contents of the disk in the *source drive* on the disk in the *destination drive*. If you have only one drive, specify it as the *source drive*.

```
BACKUP 0 TO 1   BACKUP 0
```

CLOSE #buffer,...

Closes communication to the *buffers* specified. If you omit the *buffer*, the computer closes all open files.

```
CLOSE #1   CLOSE #1, #2
```

COPY "filename1" TO "filename2"

Copies the contents of *filename1* to *filename2*. Each filename must include an extension.

```
COPY "FILE/BAS" TO "NEWFILE/BAS"  
COPY "ORG/DAT:0" TO "ORG/DAT:1"
```

CVN(string variable)

Converts a 5-byte coded string (created by MKN\$) back to the number it represents.

```
X=CVN(A$)
```

DIR drive number

Displays a directory of the disk in the drive you specify.

```
DIR0   DIR
```

Sample display:

MYPROG	BAS	0	B	3
YOURPROG	BAS	0	A	1
HERDATA	DAT	1	A	5
USPROG	BIN	2	B	2

From left to right, the columns contain:

- The filename
- The extension
- The file type
 - 0 = BASIC program
 - 1 = BASIC data file
 - 2 = machine-language file
 - 3 = editor source file
- The storage format
 - A = ASCII, B = binary
- The length of the file, in granules

DOS

With the OS-9 system diskette in Drive 0, the DOS command boots the OS-9 operating system.

```
DOS
```

Disk BASIC Commands

DRIVE *drive number*

Changes the default drive to the drive you specify. If you do not use the DRIVE command, the computer uses Drive 0 as the default.

```
DRIVE 1
```

DSKI\$ *drive number, track, sector, string variable1, string variable2*

Inputs data from a particular sector within a particular track on the disk in the drive you specify.

```
DSKI$ 0, 12, 3, M$, N$
```

DSKINI *drive number*

Formats a disk in the drive you specify. Executing this command erases memory.

```
DISKINI0 DISKINI1
```

DSKO\$ *drive number, track, sector, string1, string2*

Writes string data on the *sector, track, and drive number* you specify.

```
DSKO$ 0, 2, 1, "FIRST DATA,"  
"SECOND DATA"
```

EOF(*buffer*)

Returns a value of 0 if there is more data to read in the *buffer* and a value of -1 if there is no more data in it.

```
IF EOF(1) = -1 THEN CLOSE #1
```

FIELD #*buffer, field size AS field name,...*

Organizes the space within a direct access buffer into fields. Specify the *size* and *name* of each field.

```
FIELD #1, 10 AS A$, 12 AS B$, 5 AS C$
```

FILES *number of buffers, size*

Tells the computer the *number of buffers* to reserve in memory, and the total number of bytes (*size*) to reserve for these buffers. If you do not specify the size, the computer reserves a total of 256 bytes.

```
FILES 1, 1000 FILES 5
```

FREE (*drive number*)

Returns the number of free granules on the disk in the drive you specify.

```
PRINT FREE (0)
```

GET #*buffer, record number*

Gets the next record or the record you specify, and puts it in the buffer.

```
GET #1, 5 GET #2, 3
```


INPUT #buffer, variable name,...

Inputs data from the *buffer* you specify, and assigns each data item in the *buffer* to the *variable name* you specify.

```
INPUT #1, A$, B$
```

KILL "filename"

Deletes the *filename* you specify from the disk directory. You must include the extension with the *filename*.

```
KILL "FILE/BAS" KILL "FILE/DAT:1"
```

LINE INPUT #buffer, data

Inputs a line (all *data* up to the ENTER character) from the *buffer* you specify.

```
LINE INPUT #1, X$
```

LOAD "filename", R

Loads the specified BASIC program file into memory from disk. If you include the R, the computer runs the program immediately after loading it.

```
LOAD "PROGRAM", R  
LOAD "ACCTS/BAS:1"
```

LOADM "filename", offset address

Loads the specified machine language program file from disk. You can specify an *offset address* to add to the program's loading address.

```
LOADM "PROG/BIN", 3522
```

LOC(buffer)

Returns the current record number of the buffer you specify.

```
PRINT LOC(1)
```

LOF(buffer)

Returns the highest-numbered record of the buffer you specify.

```
FOR R = 1 TO LOF(1)
```

LSET field name = data

Left-justifies the data within the field you specify.

```
LSET A$="BANANAS" LSET B$=T$
```

MERGE "filename", R

Loads the specified program file from disk, and merges it with the program that exists in memory. If you include the R, the computer runs the program immediately after merging it.

```
MERGE "SUB/BAS" MERGE "NEW", R
```

Disk BASIC Commands

MKN\$(number)

Converts the specified *number* to a 5-byte coded string, for storage in a formatted disk file.

```
LSET B$ = MKN$(53678910)
```

OPEN "mode", #buffer, "filename", record length

Opens a buffer that transfers data to and from a particular device. If you don't specify the *record length*, the computer uses 256 bytes.

Mode	Allows
I	Data input from a sequential access file.
O	Data output to a sequential access file.
D	Data transfer to or from a direct access file.

Buffer	Communicates With
- 2	The printer.
- 1	The tape recorder.
0	The screen or printer. (It is not necessary to open this buffer.)
1 - 15	The disk drives.

```
OPEN "D", #1, "FILE", 15  
OPEN "I", #2, "CHGE/DAT"
```

PRINT #buffer, data list

Prints the *data* to the *buffer*. Use a comma or a semicolon to separate each item in the list.

```
PRINT #1, "DATA"
```

PRINT #buffer, USING format; data list

Prints the *data* to the *buffer*, using the *format* you specify. The *format* is a string; enclose it in quotation marks.

The *format* commands are:

#	Holds a space for one digit.
.	Prints a decimal point.
,	Prints a comma immediately preceding every third digit (counting to the left from the decimal point).
**	Fills leading spaces with asterisks.
\$	Prints a leading dollar sign.
\$\$	Prints a floating dollar sign.
+	Prints the sign of the number. To print the sign in front of the number, place the plus sign at the beginning of the format string. To print the sign following the number, place the plus sign at the end of the format string.
^^^^	Prints the number in exponential format.
-	Prints a minus sign after the number if the number is negative. This command does not print a sign if the number is positive. Place the minus sign at the right end of the format string.
!	Prints the first character of the string.
%spaces%	Sets the field for the string. The length of the field is the number of spaces plus 2.

```
PRINT #1, USING "##.#"; 53.76
PRINT #2, USING "***$#.##-"; -3.678
PRINT #1, USING "!"; "WHITE"
```

PUT #buffer, record number

Assigns a *record number* to the data in the *buffer* you specify. If you do not specify a *record number*, the computer assigns it to the current record.

```
PUT #2, 3 PUT #1, 4
```

RENAME "old filename" TO "new filename"

Renames a disk file. You must specify the extension of both filenames.

```
RENAME "MFILE/DAT:1"
TO "BFILE/DAT:1"
```

RSET field name = data

Right-justifies the *data* within the *field* you specify.

```
RSET M$ = "SOAP"
```

Disk BASIC Commands

RUN "filename", R

Loads *filename* from disk, and runs it. If you include the R, all open files remain open.

```
RUN "FILE"  RUN "PROG/BAS", R
```

SAVE "filename", A

Saves *filename* on disk. By using the A option, you save the program in ASCII format.

```
SAVE "PROG/BAS"  SAVE "TEST:1", A
```

SAVEM "filename", first address, second address, third address

Saves *filename*, a machine-language program residing in the memory location that begins at *first address* and ends at *second address*. The *third address* is the execution address.

```
SAVEM "FILE/BIN:1", &H5200,  
      &H5800, &H5300
```

UNLOAD drive number

Closes any open files on the disk in the drive you specify. If you do not specify a *drive number*, the computer uses Drive 0 (or the drive you specified in the DRIVE command).

```
UNLOAD 0  UNLOAD
```

VERIFY ON VERIFY OFF

Turns the verify function on or off. When VERIFY is on, the computer verifies all writes to the disk.

```
VERIFY ON
```

WRITE #buffer, data list

Writes the *data* to the *buffer* you specify. Use a comma to separate each data item in the list.

```
WRITE #1, A$, B$, C
```

Error Messages

<i>Error No.</i>	<i>Description</i>
/0	Division by zero
AE 33	File already exists
AO	Attempt to open a data file that is already open
BR 27	Bad record number
BS	Bad subscript
CN	Cannot continue
DD	Attempt to redimension an array
DF 28	Disk full
DN	Drive number or device number error
DS	Direct statement
ER 37	Write or input past end of record (direct access only)
FC	Illegal function call
FD	Bad file data
FM	Bad file mode
FN 31	Bad filename
FO 34	Field overflow
FS 32	Bad file structure
HP	High-resolution print error (Color Computer 3 only)
HR	High-resolution graphics error (Color Computer 3 only)
ID	Illegal direct statement
IE	Input past end of file
IO	Input/output error
LS	String too long
NE 26	Cannot find the disk file
NF	NEXT without FOR
NO	File not open
OB 29	Out of buffer space
OD	Out of data
OM	Out of memory
OS	Out of string space
OV	Overflow
RG	RETURN without GOSUB
SE 35	Set to non-fielded string
SN	Syntax error
ST	String formula too complex
TM	Type mismatch
UL	Undefined line
VF 36	Verification
WP 30	Write-protected disk

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