



WACH128TM

CARTRIDGE

INSTRUCTION MANUAL

for

**COMMODORE 128/64TM
and 1541/1571 DISK**

CARTRIDGE FAST LOADER

NOTE: Mach128 is designed for use with the Commodore C128™ and 1571 or 1541 or compatible disk drive.

SET UP

1. Make sure that your computer is turned OFF before inserting or removing your Mach128 CARTRIDGE.
2. Insert the Mach128 CARTRIDGE into the cartridge slot located at the rear right corner of the computer.
3. Locate the switch on the Mach128 CARTRIDGE to select the C64 mode or C128 mode. Slide the switch to the desired mode.

EQUIPMENT	MACH128 SWITCH	RESULT
C128	C128	Power-up in C128 mode.
C128	C64	Power-up in C64 mode.
C64	C128	Power-up in normal C64 mode.
C64	C64	Power-up in C64 with Mach128 engaged.

4. Turn on your disk drive(s) and your computer. After the computer has been turned on, the words 'Mach128 V-XX with warp-drive!' or 'Mach-5 V-XX with warp drive!' will appear on the screen, depending on the mode selected on the Mach 128 cartridge.

MENU

Type "← M," to display the command menu at any time that the cursor is flashing.

The following commands are available in C128 and C64 modes with the Mach128 CARTRIDGE.

COMMAND	FUNCTION
\$	List a directory on the screen without erasing the program in memory. While listing a disk directory to the screen, the display scrolling may be paused and unpaused by pressing the

'space' bar.

To load a file from a directory that has been listed to the screen, simply move the cursor to the left most column next to the file name, and use the appropriate command to load the file. Mach128 will then attempt to load the file by accessing the most current drive used (see @DN command).

@COMMAND Send a DOS command to the most current disk drive (Example: @i is the same as **OPEN 15, DN, 15, 'I':CLOSE 15**) By pressing the '@' key (which is used to send a command to the drive) and the 'return', the error condition of the most current drive may be displayed.

@DN This command is essentially the same as the BASIC command 'POKE 186,DN' where DN is a drive number from 8 to 11. All load, save and DOS commands will refer to this most currently designated drive number for drive operations.

/FILENAME The same as **LOAD "FILENAME", DN.**

£!FILENAME The '£' key, followed by a file name, will not only load a BASIC file, but will also immediately run the file. **EXAMPLE: LOAD "FILENAME", DN:RUN.**

↑ FILENAME The same as **LOAD "FILENAME",DN,1.**

= FILENAME The same as **SAVE "FILENAME",DN.**

← * The same as **LOAD "*" ,8,1 RUN.** When using the '← *' command, if the file does not auto-execute, the file will now be made to execute. **EXAMPLE: LOAD " :* ,DN,1:RUN.**

← P The same as **OPEN 4,4,7:CMD4** (Printer open for upper/lower case).

← U The same as **OPEN4.4:CMD4** (Printer open for upper case/graphics).

← C The same as **PRINT#4:CLOSE4** (Close printer channel).

← L The same as **"LOAD"** (add "FILENAME", DN).

← S The same as **"SAVE"** (add "FILENAME", DN).

← M Display Mach128 menu.

← R Disable 1541 drive **RATTLE ON ERROR** for most current drive. (To re-enable, turn drive off and on).

- ← D Disable FAST LOADER but retain commands.
- ← E Enable MACH DOS. In C128 mode, after pressing 'RUN/STOP' and 'RESTORE' keys, or after a 'warm-start', the MACH DOS will need to be re-engaged with this command.
- ← H Hard copy print out of the screen, either 40 or 80 columns in C128 mode, or 40 columns in C64 mode. Works in 'direct' mode only.
- ← O 'O' will restore a BASIC program previously 'NEW' d, or restore the program after a system reset. (This is equivalent to the BASIC command 'OLD').
- ← + This command enables the 'Warp-Drive' feature of Mach128. Loading now occurs at speeds up to 700% with the screen turned off.
- ← - This disables 'Warp-Drive', allowing load speed up to 500% with the screen on.
- \$HHHH This command will convert and display on the screen the hexadecimal, decimal and binary of the 4-digit hex number input. (EXAMPLE: \$1F09).
- + DDDDD This command will convert and display on the screen the hexadecimal, decimal and binary equivalent of the decimal number input. (EXAMPLE: + 1394).
- %BBBBBBBBB-
BBBBBBBBB This command will convert and display on the screen the hexadecimal, decimal and binary equivalent of the binary number input. (EXAMPLE: %0011101011001).
- @F:FILE-
NAME,ID This is a 10 second disk format command for use on 1541 drives. The filename must be from 1 to 16 digits, and the ID must be 2 digits. When this command is invoked, the drive light will NOT turn on while formatting, but it will turn on briefly at the end of formatting to indicate a successful format. If, when the directory is listed, the disk has not been properly formatted, simply initialize the drive, and repeat the format command.
- CONTROL
KEY When the computer is first turned on or reset, if the 'Control' key is pressed, the Mach128 command '← *' is issued booting the first file on the disk.
- ← K This command toggles to use of 128 keyboard in 64 mode. A new keyboard scan routine is loaded from the

cartridge in the computer RAM. This works with the normal IRQ system, and may not work with some programs that use the IRQ system.

All of the new cursor keys and the numeric keyboard will operate, and even the top row of 128 keys are updated in location \$02A7 (679) as follows:

Bit 7 — ALT
Bit 6 — CAPS LOCK
Bit 5 — ESC
Bit 4 — HELP
Bit 3 — TAB
Bit 2 — LINE FEED
Bit 1 — NO SCROLL
Bit 0 — N/A

ADDITIONAL INFORMATION

- In C64 mode, to disable COMMANDS, but not affect the MACH DOS, type SYS57043.
- In C64 mode, to enable COMMANDS ONLY, type SYS57054.
- In C64 mode, to enable COMMANDS and MACH DOS, type SYS57051.
- In C64 mode, to enable MACH DOS only, type SYS57003.
- The directory list command "\$" will use the most current drive number. You may directly select a device by using the @ DN command, where DN = drive number (8-11).
- In C64 mode, users of SYSRES (TM by Solidus International) can do fast program file loads with the Mach128, but must use conventional BASIC syntax (i.e. LOAD "FILENAME", DN).
- There are very few programs that will not load with Mach128 engaged. If a program does fail to load, try typing "← D" to disable the MACH DOS rather than removing the cartridge. The time required to load a program depends on many factors, including booting technique, error checking etc. Speeds up to 700% of normal are possible with long, single file program loads. With copy protected programs, if it is usually possible to save a few seconds as well as drive wear by disabling the drive rattle. Some programs, however, may not load properly with the rattle disabled.

- After the computer is first turned on, be sure and wait for the disk light to go out before accessing the disk with a command such as "\$".
- If a scrambled (non-working) screen occurs when Mach128 CARTRIDGE and/or a printer, interface is connected to your printer the problem is most commonly a weak or failing power supply. See your local commodore dealer and try a different power supply.

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