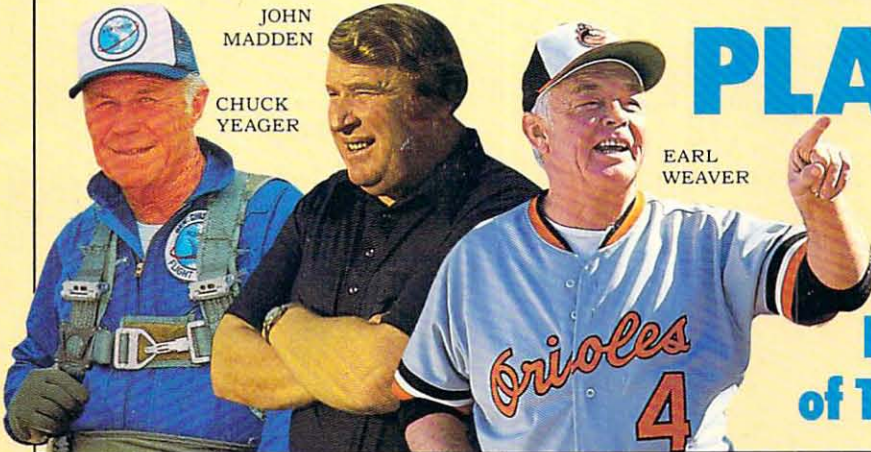
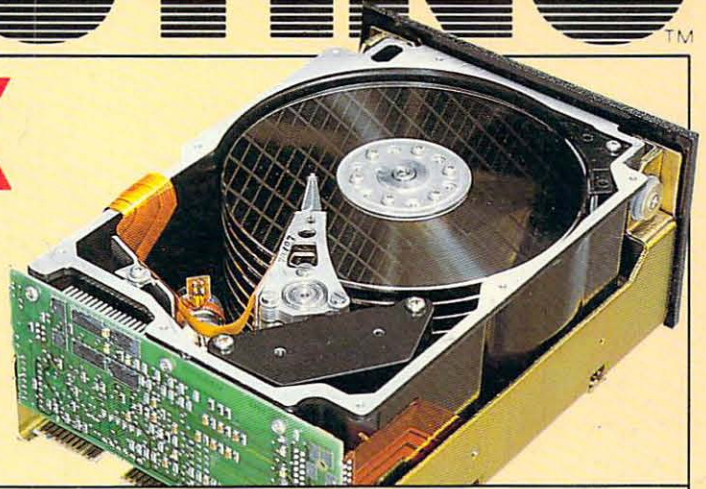


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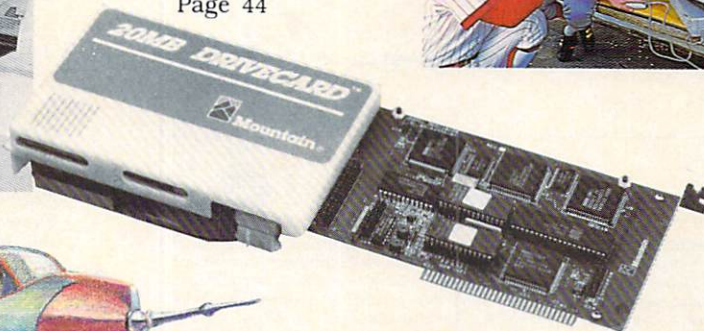
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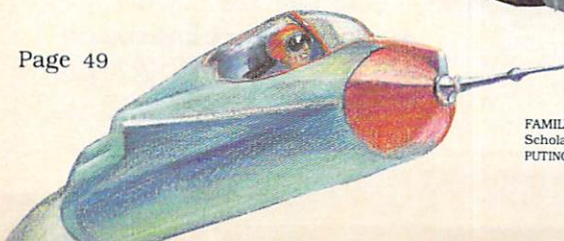
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COVER PHOTOGRAPHS: HARD DISK COURTESY OF CONTROL DATA; CHUCK YEAGER PHOTO BY ALLEN QUINN; JOHN MADDEN PHOTO BY JERRY WACHTER; EARL WEAVER PHOTO BY DAVID MADISON

MACHINE SPECIFICS

ment this way, you'll probably find, as I did, that visual page design (WYSIWYG) is much slower and often results in poorly designed work.

This upgrade adds kerning, dropped caps, new drawing and shading commands, and other professional design capabilities, as well as a menu-driven font manager for choosing and downloading fonts.

HENRY BEECHHOLD is the author of *The Brady Guide to Microcomputer Troubleshooting & Maintenance* (Brady Books, Prentice Hall Press, New York).

MS-DOS

BY STEVE MORGENSTERN

The size of application programs keeps expanding, especially as we move into graphics-oriented user interfaces such as Microsoft *Windows*. The number of really useful memory-resident programs keeps growing, too, and each eats away at the 640K limitation imposed by MS-DOS.

That's why the recent announcement of a new standard for expanded memory, supported by most of the major software and hardware suppliers and usable with most MS-DOS computers, is so important to the continuing viability of MS-DOS.

Until now there were two separate and confusing standards for expanding memory. Lotus, Intel, and Microsoft were on one side with their EMS (Expanded Memory Specification) system. On the other side, AST Research had EEMS (Enhanced Expanded Memory Specification). Now the two opposing camps have shaken hands and agreed on the new EMS Version 4.0, which is far more capable than either of the old standards.

Among other things, EMS 4.0 raises the limit of expanded memory from 8MB to a whopping 32MB. It also lets programmers write memory-resident software that will work from expanded memory, leaving the lower 640K free for regular programs and data. In addition, it offers improved multitasking capabilities.

Graphic MS-DOS Games. Lately I've seen a host of MS-DOS games featuring excellent graphics. A few highlights: *Marble Madness* (Electronic Arts), *Defender of the Crown* (Master Designer/Mindscape), *The Ancient Art of War at Sea* (Broderbund), and *Pinball Wizard* (Accolade). The latter plays fast and

smooth, includes an easy-to-use construction kit for designing your own table and, best of all, lets you "whack" the machine (watch out for the "tilt," though).

STEVE MORGENSTERN can be reached on CompuServe (ID: 72545.606).

TANDY

BY STEPHEN MILLER

Now that Tandy officially has adopted the 3.5-inch disk format, what can users do with all that software in 5.25-inch format? Unlike another major manufacturer, Tandy builds machines that support both disk formats without conversion kits. During this period of transition from one standard to another, a machine with both disk drives is indeed versatile.

You can add an external 3.5-inch drive to the 1000 EX or an internal 3.5-inch drive to the 1000 SX. You can connect an external 5.25-inch drive to the 1000 HX, which comes with a 3.5-inch drive. And you can add an internal 5.25-inch drive to the 1000 TX, which comes with a 3.5-inch drive. In fact, the 5.25-inch drive is the same one used on the older SX (cat. #25-1063, \$170).

Installing 3.5-Inch Drives. Tandy recommends that dealers install the internal drive on the TX (for about \$30). But installing the second drive is not as tough as you might think; old stone fingers here did it in 10 minutes, despite the shoddy documentation. For example, the instructions state, "Do not twist the [ribbon] cable." Well, if you follow that advice, you won't be able to plug the cable into the disk drive! The matching connection on the disk drive lines up opposite the way stated in the installation instructions. I suggest that before you even put the second drive in its slot, you take the rubber band off the ribbon cable and gently turn over the cable. There's enough slack in the cable so that it won't be pinched.

You're also going to have to insert the power supply plug by touch. The TX's internal design makes it impossible to actually see the connector with the drive plugged in.

No DiskCopy. If you do have mixed disk drives, be aware that you cannot use the DOS DISKCOPY command. You will get a "DRIVE TYPE OR DISKETTE TYPES NOT COMPATIBLE" error message.

You can, however, use the COPY command to duplicate individual files.

STEPHEN MILLER is a computer consultant and journalist.

ORPHANS

BY PATRICK SPERA

With Nintendo and Atari sparking sales of video game machines, there has been an accompanying resurgence of interest in older machines. In other words, people are pulling them out of their attics. Most retail outlets have stopped carrying a large selection of the cartridges used by these machines, but there are still dealers who carry cartridges for various consoles. One dealer who sells cartridges for Atari, Coleco, and Intellivision video game machines is Pleasant Valley Video (Dept. F, 8141 Pleasant Valley Rd., Camden, OH 45311; [513] 787-4707, BBS [513] 787-3777). Send a self-addressed, stamped envelope for its listings.

Timex Public Domain. The Greater Cleveland Timex Sinclair Users' Group (GCTSUG, Algis Gedris, 355 Royal Oak Blvd., Richmond Heights, OH 44143) wishes to swap public-domain programs with other users' groups. Its library currently has more than 2,000 programs. The programs are contained on 36 tapes, which are available to users' group libraries on the condition that these users' groups share their programs with the GCTSUG.

PATRICK SPERA is sysop of the *Computer Club Forum on CompuServe* (GO CLUB), a meeting place for owners of orphaned computers. He can be reached at (ID: 76703.4350).

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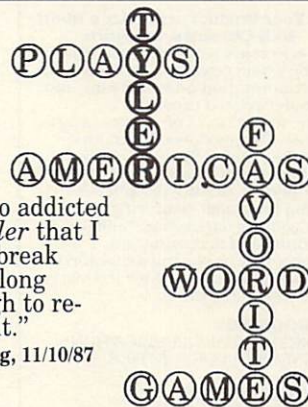
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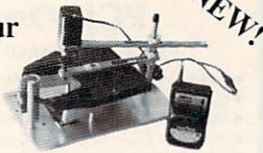
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