

# TOTAL ACCURACY COPY PROGRAM



**Total Accuracy** is an advanced program which copies Apple-compatible disks. Total Accuracy is reliable: its bit by bit comparison feature helps insure perfect copies time after time. Total Accuracy is convenient: it copies and initializes simultaneously. And it copies all standard Apple® formats with a single program. Total Accuracy is fast: it can copy onto a blank disk or a previously initialized disk in under 45 seconds.

Total Accuracy features a verify-only mode which lets you quickly compare two disks to see if they're identical. Supplied with the copy

program is a disk drive speed adjustment program with simple, easy to follow instructions. Total Accuracy features much of the technology used in ALF's high-speed disk copying systems and ALF's disk copying service. You can use the Total Accuracy Copy Program with complete confidence.

**Reliable.** After each track is written, it is read and compared bit by bit with the track read from the original disk. Comparing all data bytes and format bytes in this fashion is much more reliable than just computing the check

bytes in each sector. Using check bytes alone might indicate an incorrect sector as "good". Additional checks are made during copying to detect certain drive mechanism failures.

**Convenient.** Keyboard commands allow the selection of 13-sector copying (DOS 3.1, DOS 3.2, DOS 3.2.1, etc.) or 16-sector copying (DOS 3.3, Pascal, Fortran, CP/M®, etc.). Commands also select normal copy mode or verify-only mode, change disk drive slot numbers, add or remove drives, and so forth. The Total Accuracy Copy Program "beeps"

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when nearly finished and again (louder) when finished so you know when your copy is done—even if you aren't sitting at the Apple.

**Fast.** The Total Accuracy Copy Program copies 13-sector disks in about 39 seconds (or faster with certain settings). We've timed Apple's DOS 3.2.1 copy program at about 146 seconds. Yet Total Accuracy includes a full verify; Apple's program doesn't have a verify feature. Total Accuracy copies 16-sector disks in about 42 seconds (again, it's faster with certain settings). Apple's DOS 3.3 copy program took 88 seconds. Total Accuracy is designed to produce perfect copies at the fastest possible rate. To increase the speed beyond 39/42 seconds, it would be necessary to reduce the reliability of the copies (by simplifying or eliminating the accuracy checks) or make use of additional hardware. (Systems using additional hardware for faster copying are available. Call or write for details.)

**Verify.** Total Accuracy features a verify-only mode which compares two disks (the same way its copy mode checks a copied disk for accuracy). By copying, switching the original and copied disks, and then verifying the disks you can check for interchangeability. This assures you that the copy can be read in a drive other than the one that wrote it, and can help you find misaligned drives.

**Maintenance.** While copying hundreds of thousands of disks for customers of ALF's copying service, ALF has gained considerable experience in disk drive maintenance. The Total Accuracy manual explains how to estimate when your drives should be cleaned, and recommends materials for cleaning. A program is supplied to turn disk drives on for the proper amount of time when cleaning with a cleaning-diskette. Disk drive speed adjustment is explained, and a program to measure drive speed is supplied. Tips on spotting stepper-motor failure are given.

For drive repair technicians, the maintenance section of the manual explains the difference between Apple drives and Shugart drives. The section explains how Apple drives can be maintained using standard Shugart procedures and equipment. A program to aid in drive repair and maintenance is supplied.

**Total Accuracy** is ideal for all your standard Apple-format copying. It's fast, reliable, and easy to use. Total Accuracy is available through your local computer dealer.

Total Accuracy works on an Apple II compatible computer (an Apple IIe, a Franklin Ace, or a 48K or 64K Apple II or Apple II+) with Applesoft BASIC, one or more Apple Disk II drives with controller (or exact equivalents), and a video monitor (or television set with modulator). Programs are supplied on a 16-sector DOS 3.3 disk. The Total Accuracy Copy Program copies only standard formats, it will not copy "protected" disks.

Write for information on ALF's disk copying service, blank disk sales, and high-volume duplication equipment.