



# PRODUCT CATALOG



Sensible Software

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All program will work on an Apple II or Apple II Plus Computer.

**NEW RELEASES****B.E.S.T.**

\$ 40.00

Applesoft in ROM, 48K, and DOS 3.3 required

Our original Applesoft Optimizer (AOPT) has now been enhanced to bring to the Applesoft programmer the most comprehensive set of software tools available today--B.E.S.T. The BASIC ENHANCED SOFTWARE TOOLS is a machine language program to aid in writing, analyzing, and debugging Applesoft Basic programs. B.E.S.T. will certainly increase programmer efficiency for improved productivity. B.E.S.T. offers:

1. Variable Cross-Reference Map, including where variables are defined and used in INPUT and GET statements.
2. Line number Cross-Reference Map, including subroutine starting locations.
3. A Complete Cross-Reference Map.
4. Optimize Variable Names with recognition of both short (two character/Applesoft standard) and long labels.
5. REM Optimizer--with an option to "protect" specified REM statements.
6. Line Optimization to join short instruction lines to a specified length.
7. Merging two programs.
8. Automatic line numbering.
9. A powerful, yet easy to use Renumber function.
10. And more...

B.E.S.T. will convert a verbose, well documented development version of a program into a memory efficient, more secure production version of the same program with increased speed of operation. Memory requirements can be reduced by up to 50% and execution speed can be increased up to 100%. B.E.S.T. is a low cost alternative to an Applesoft compiler.

Owners of our original AOPT can upgrade to B.E.S.T. for \$24. Please return your original AOPT diskette with your order.

**EDIT-SOFT**

\$ 30.00

Applesoft in ROM, 48K, and DOS 3.3 required

Here is a powerful line editor for writing and revising your Applesoft programs. EDIT-SOFT gives you the power to edit any line in your program, or even one that you are just typing in. You can easily insert or delete characters from your program with simple keystrokes. EDIT-SOFT provides the advanced features that you will love--for example: the ability to splice (combine) two lines together, global searching, automatic line numbering, user definable keys, and an automatic counter for characters between quotes (terrific for formatting lines). Other helpful features include a help page, entry of lower case, screen messages showing you what switches are set, the ability to load, define, and save the user definable keys while you are working on a program.

**NEW RELEASES** (continued)**THE SENSIBLE SPELLER**

\$125.00

DOS 3.3, 48K, and one disk drive required

THE SENSIBLE SPELLER is the first COMPLETE spelling verification program for the Apple II Computer. It is designed to rapidly compare all of the words from a word processing file against a dictionary. THE SENSIBLE SPELLER quickly identifies "unknown" words and displays these words in the context in which they were used. You may then globally or individually mark these "unknown" words as "misspelled" words in the original document or add them to the dictionary of known words. Misspelled words may be listed, printer and/or marked in the document.

Included in THE SENSIBLE SPELLER package is a hard-cover copy of THE RANDOM HOUSE DICTIONARY, CONCISE EDITION and two diskettes which contain all of the words in this dictionary. If you question the definition, pronunciation, hyphenation, or spelling of any word, you can simply look it up in the supplied hard-cover dictionary.

Options are available to automatically mark each misspelled word in the document or to see the misspelled words in the context of the sentence. When this verification mode is activated, THE SENSIBLE SPELLER highlights each misspelled word in the context in which it was used. You may then choose to mark the word, ignore it, add the word to the dictionary, or you can even search the dictionary for the correct spelling (using wild-cards). Many other options are available to further tailor THE SENSIBLE SPELLER's operation to your own needs. Some of the other options included are: the ability to ignore printer control code, formatting commands (two user specified prefix characters), accept the international character set, and list or print word usage and/or misspelled word usage.

THE SENSIBLE SPELLER is fast, it can proofread a 10-page document (about 3350 words) in 1 minute (if there are no spelling mistakes) or 2 minutes, 15 seconds for many spelling mistakes! Shorter documents will take less time.

The dictionary diskettes use advanced packing algorithms so that they may contain approximately 55,000 words. Two dictionary diskettes are supplied; the main dictionary diskette contains 45,000 of the most commonly used English language words (there is room to add approximately 10,000 of your own words), while the supplementary dictionary diskette contains the remaining 40,000 words in THE RANDOM HOUSE DICTIONARY, CONCISE EDITION. The program provides an easy means of adding, deleting, or creating new dictionaries with the words that you most often use. You can have as many different dictionaries as you like (possibly one for legal letters, one for your Apple related articles, etc.).

Two disk drives are required to delete words from or add words to the dictionary. If you only have one disk drive, you can still take full advantage of THE SENSIBLE SPELLER's proofreading ability--just borrow a disk drive when you need to add words to the dictionary.

**NEW RELEASES** continued**THE SENSIBLE SPELLER** continued

THE SENSIBLE SPELLER package includes an easy-to-read instruction manual, two copies of THE SENSIBLE SPELLER program diskette, a main dictionary diskette, a supplementary dictionary diskette, a hard-cover copy of THE RANDOM HOUSE DICTIONARY, CONCISE EDITION, and a custom designed looseleaf to hold the complete package.

Different versions of THE SENSIBLE SPELLER are available for almost any word processor available on the Apple II.

**VERSIONS AVAILABLE:**

**DOS 3.3.** Works with any word processor that writes a standard DOS 3.3 BINARY or TEXT file: compatible word processors include APPLEWRITER (I or II), APPLE PIE, THE CORRESPONDENT, EXECUTIVE SECRETARY, LETTER PERFECT, MAGIC WINDOW, PIE WRITER, SCREEN WRITER II, SUPERSCRIBE II, TEXT EDITOR, TXT/ED, WORD POWER, WRITE-ON, and ZARDAX.

**CP/M.** Works with all of the popular CP/M word processors: MAGIC WAND, TYPE MASTER, and WORDSTAR.

**WORD HANDLER.** Works with Silicon Valley Systems' popular word processor, WORD HANDLER.

**PASCAL.** If you are using the Pascal EDITOR, PROSE or SCRIPT II for your word processor, then this is the version for you.

**SUPER-TEXT.** A perfect match for Muse's SUPER-TEXT word processor. Works with SUPER-TEXT, SUPER-TEXT II, or SUPER-TEXT 40/80 COLUMN.

Please note that the supplied dictionary is compatible with all of the separate versions of THE SENSIBLE SPELLER.

**APPLESOFT UTILITIES****APLUS**

\$ 25.00

DOS 3.3 and 32K required

APLUS is the original Structured Basic enhancement for Applesoft Basic. APLUS provides the tools that will increase your efficiency, simplify program rewriting, and make your program flow more understandable. APLUS adds the following structured programming commands to Applesoft basic: WHEN...ELSE...FIN, UNTIL, WHILE, UNLESS, CASE, SELECT (variable), and (OTHERWISE). Multi-line IF...FIN statements are also supported. APLUS also allows the use of "named" subroutines or "procedures." You can now instruct a program to "DO CURVE-FIT" without worrying about the location of the "DO CURVE-FIT" subroutine. APLUS automatically indents "&LIST"ed programs to clarify the logic flow. The APLUS "&CONVERT" command replaces the above structured programming commands with "GOTO"s and "GOSUB"s to provide a STANDARD Applesoft program as output.

New programs can now be written using "GOTO"-less logic. Existing Applesoft programs can be maintained using APLUS without special conversion.

**BUILD USING**

\$ 30.00

Applesoft in ROM, 48K, and DOS 3.3 required

A powerful machine language utility for Applesoft programs. BUILD USING includes an easy to use print-using routine plus similar functions for strings. The results may be printed, written to disk, or just stored for later usage. Also included are three levels of error trapping, so you can trap and correct numbers or strings that cannot fit in your specified format. You can choose how many decimal places should be displayed for each number to be printed, and you can even fill the leading positions with the character of your choice. For example, you can print the number '157.23' as '157.2', or '0000157.230', or '\*\*\*\*\*\$157.23', or '157 AND 23/100 DOLLARS', or hundreds of other ways (including exponential formats). Working with strings is just as easy; it's a snap to convert names from 'John' and 'Doe' to 'Doe, J.'. Stop delaying, once you have BUILD USING, creating those reports and charts that you've been putting off will be fun.

Utilities like BUILD USING are usually difficult to use because they must be located in one memory location (usually between DOS and the DOS file buffers); they cannot be used with your favorite editor or other special routines. BUILD USING does not have this limitation, as it can be easily located in several different memory locations: 1) APPENDED to your Applesoft program, 2) at HIMEM, 3) the "standard" between DOS and DOS file buffers, or 4) anywhere else in memory. Appending BUILD USING to your program is as simple as EXECING a TEXT file. BUILD USING uses the "CALL" command thereby leaving the Ampersand vector free for your own use.

**BUSINESS UTILITIES****APPLEGUARD**

\$250.00

48K, two disk drives, and Autostart ROM required

13 or 16-sector disks supported!

APPLEGUARD is a sophisticated system designed to enable producers of software products to protect their programs against illegal or otherwise undesirable copying. This system can create either 13 or 16-sector protected diskettes.

APPLEGUARD features over a dozen "state of the art" program protection capabilities ranging from "AUTO RUN" of BASIC programs (Applesoft or Integer) to a limited protection against disk "bit copiers." Most of these protection features are optional, allowing the software producer to select a "custom" protection system to satisfy his particular requirements.

The following protection options are standard: 1) the DOS commands "INIT", "SAVE", "FP", and "INT" are disabled, 2) DOS 3.2.1 disks will boot with either the 13 or 16-sector disk controller, and 3) special protection provided for Language Card users. The software producer may choose from the following options: 1) disabling "BSAVE" command, 2) require an Autostart ROM, 3) "BRUN" hello program, 4) "EXEC" hello program, 5) "AUTO RUN" Integer or Applesoft programs, 6) use of an alternate set of DOS command names, 7) "flipping" between the protected DOS and standard DOS, thus enabling the end user to access files on either a protected disk or a standard DOS diskette, and 8) the clearing of memory if the RESET key is pressed.

Beyond copy protection, APPLEGUARD is also one of the best systems for producing copies of software products in quantity. In addition to making copies quickly (90 seconds including initialization), APPLEGUARD will enhance DOS 3.2.1 disks to allow them to boot directly on either a 13 or 16-sector disk controller. (If DOS 3.3 diskettes are made, they will only boot on a 16-sector disk system).

APPLEGUARD is supplied in duplicate to help reduce the possibility that a disk failure will cause interruption of production activities.

For more information call or write Sensible Software. (Written requests should be on your company's letterhead.)



**DEBUGGING AIDS****THE BUG**

\$ 50.00

DOS 3.3 and 48K required

THE BUG is an assembly language debugging aid and learning tool for both the novice and experienced programmer alike. THE BUG provides the user with the capacity to control the execution of any assembly language program, giving far more control than ever before possible with the Apple computer. Some of the included options are the ability to display or not display the instructions as they are executed, running selected sections of the program at full speed in order to bypass those routines that are "bug-free", controlling the speed of execution with the paddles, halting execution with the game paddle or 'ESCAPE' key, setting memory or register breakpoints (stopping the program when specified values of either particular memory locations and/or 6502 registers are found, inspecting those locations in memory or the registers, and then even restarting the program), resetting the breakpoints while the program is running, running subroutines within the program at full speed (by running the program at full speed when the stack pointer is pushed below a certain value), displaying the registers, and displaying memory (hex and/or ASCII). THE BUG also comes with a 40+ page manual that includes examples of usage.

The programmer will find that THE BUG will increase his efficiency by decreasing the amount of time spent debugging assembly language programs. The beginning programmer will find THE BUG to be a useful tool for learning assembly language programming. With THE BUG, you can finally unravel the mysteries of the Apple.

THE BUG has been enhanced and may now be optionally run in Bank 1 of a language or RAM expansion card (besides any other free area in memory). Other new commands include a checksum command to insure that THE BUG's memory image is intact and the ability to enter DOS commands will in THE BUG.

**DISK UTILITIES****BACK IT UP II+**

\$ 60.00

48K and 1 disk drive required

BACK IT UP II+ is a powerful disk copy utility that enables a user to make "back up" copies of almost any diskette that is presently available for the Apple computer. Protect your investment in expensive software products.

BACK IT UP II+ uses a "second generation" disk copying technique that is known as "bit" or "nibble" copying. This technique works equally well with both 13 and 16-sector diskettes including DOS 3.1, DOS 3.2, DOS 3.2.1, DOS 3.3, FORTRAN, Pascal, and virtually any other disk. The user is provided with many options, among them are quick scanning the protected diskette (to find which tracks contain data), automatic half tracking, synchronized tracks, and selective track copying.

BACK IT UP II+ has been completely rewritten to keep pace with the latest software releases. It is now faster, much more reliable, prints diagnostic information, accepts parameter changes, copies synchronized tracks, and has a nibble reader and displayer which highlights the important nibbles.

The release of this program in no way implies that Sensible Software supports software "piracy." This product is intended SOLELY for the computerist who desires to "back up" his/her diskette library.

**DOS PLUS**

\$ 25.00

32K and one disk drive required

DOS PLUS is the software solution for living with both 13-sector (DOS 3.1, DOS 3.2, DOS 3.2.1) and 16-sector (DOS 3.3) APPLE diskettes.

DOS PLUS adds eight new commands to APPLE DOS. Three of these are built-in, and the remaining five are user definable. The built-in commands allow the user to "flip" between DOS 3.3 and DOS 3.2 with a simple ".F" command. The user does not have to re-boot, and any programs that reside in memory will not be affected by the "flip." IT IS EVEN POSSIBLE TO CHANGE DOS VERSIONS WHILE A PROGRAM IS RUNNING! The ".S" status command is available to indicate which DOS is active.

If you have a Language Card, DOS PLUS will quickly load it with the "missing" language. A ".B" BLOAD analysis command is also provided to display the starting address and length of the last binary file loaded.

DOS PLUS also includes a DOS COMMAND CHANGER program to allow easy customization of APPLE DOS commands to suit individual tastes.

**DISK UTILITIES** (continued)**MULTI-DISK CATALOG**

48K and one disk drive required

\$ 25.00

MULTI-DISK CATALOG is a very fast, machine language database program designed specifically for keeping track of the contents of your APPLE diskette library. MULTI-DISK CATALOG requires only seconds to read FILE NAMES, FILE TYPES, FILE SIZES, number of FREE SECTORS remaining on diskette, and actual VOLUME NUMBER from each of your diskettes. Both sides of a diskette can be loaded and assigned to the same DISK ID#. MULTI-DISK CATALOG supports the use of a two-character CLASSIFICATION field that can be used to group games, utilities, and other types of related files together. (The CLASSIFICATION fields are retained when the disk volume is updated). Unwanted file names (for example "HELLO" and "MENU") can be deleted. MULTI-DISK CATALOG supports a fast Shell-Metzner multi-key sort on any of the five database fields. A unique "LIST MASK" provides a powerful search capability for interrogating the database for specific information. A TITLE may be entered for each volume (very useful for tracking "protected" software). A "FLIP DOS" command allows MULTI-DISK CATALOG to add directories from DOS 3.1, 3.2, and 3.3 diskettes to the same master catalog and to store the resulting database on either a 13 or 16-sector disk.

"There is no doubt about it, this is the best and most versatile master catalog program available." - THE BOOK of Apple Computer Software 1982

```
MULTI-DISK CATALOG 653 NAMES/DOS3.3  
V3.X      COPR. 1980  
ALL RIGHTS RESERVED-SENSIBLE SOFTWARE-  
.....
```

```
ESCAPE TO MENU  
ADD/REPLACE DISK  
2ND SIDE OF DISK  
CLASSIFY NAMES  
DELETE DISK  
EXIT  
FLIP DOS VERSION  
GET DATABASE  
LIST  
NEW DATABASE  
ORDER NAMES (&PACK DATABASE)  
PR#  
QUIET THE SORT NOISE  
SAVE DATABASE  
TITLE DISK
```

```
ENTER 1ST LETTER OF COMMAND ?
```

## DISK UTILITIES (continued)

**SUPER DISK COPY**

\$ 30.00

48K and 1 disk drive required

SUPER DISK COPY is much more than just another copy program. It's practically a "mini-DOS" in itself, SUPER DISK COPY has become the standard for APPLE disk utilities. SUPER DISK COPY is completely menu-driven and works with files under DOS 3.1, 3.2, 3.2.1 and 3.3.

SUPER DISK COPY is the only disk utility available for the APPLE that combines these features: 1) COPY ANY SINGLE FILE (Integer, Applesoft, Binary, Text, or Relocatable), 2) COPY DOS, 3) COPY an entire disk, 4) BRUTE FORCE COPY for Pascal, FORTRAN, and CP/M disks, 5) UNDELETE deleted files, 6) Optional "INIT" of copy disk with optimized "skew" factors for 13-sector disks, 7) REPLACE illegal characters in file names, 8) FIX file sizes, 9) DELETE DOS to obtain two additional tracks for data storage, 10) ALPHABETIZE file names in diskette directory, 11) LOCK or UNLOCK files, 12) PLOT of disk usage, and 13) Optional re-arrangement of files so that they occupy contiguous sectors for improved access times.

SUPER DISK COPY supports the APPLE wildcard characters "=" and "?" in file specifications. SUPER DISK COPY makes the conversion of files from 13-sector DOS to 16-sector DOS (or vice versa) simple, since both 13 and 16-sector disks can be accessed at the same time.

```
<SUPER DISK COPY 3.x> (C) 1981 -- ALL
SENSIBLE SOFTWARE RIGHTS RESERVED
```

```
.....
DISK  SLOT DRIVE DOS SPACE LEFT
SOURCE 6 1 3.3 107
TARGET 6 2 3.2 164
```

```
<A>LPHABETIZE & PURGE DELETED FILES
<B>OOT
<C>OPY
<D>ELETE
<F>IX FILE SIZES
<I>NIT TARGET DISK
<L>OCK/UNLOCK
<N>EW SLOT/DRIVE/DOS-VERSION
<R>EPLACE ILLEGAL CHARACTERS
<U>NDELETE
<V>IEW CATALOG
```

```
WHICH? v
```

SUPER DISK COPY's MAIN MENU

**QUICKLOADER DISK UTILITIES**

The QUICKLOADER series of disks is designed to rapidly load BASIC into the Language Card along with loading any version of Apple DOS. These disks work with DOS 3.1, DOS 3.2, DOS 3.2.1, DOS 3.3, and MUSE DOS.

**DISK ORGANIZER**

\$ 30.00

48K and one disk drive required

Here is a way to really organize the files on your diskettes. Using DISK ORGANIZER, you can order the files on a diskette not only alphabetically, but in any order you want. The boot or "HELLO" program may be renamed on DOS 3.2, 3.2.1, and DOS 3.3 master and slave diskettes. TITLES (actually 0 length TEXT files) can be entered describing a file or group of files on the diskette. These TITLES may be entered in normal, inverse, flashing, and lower case letters. All work is done on a RAM version of the directory; so if you decide the changes you made are not correct, you can simply abort the process and keep the old catalog. Since DISK ORGANIZER works on a RAM version of the directory, disk access is kept to a minimum; hence, DISK ORGANIZER is extremely fast. The following functions are also included: DYNAMIC DISPLAY of ALL file names in the directory, a SIMULATED CATALOG to show the modified directory before it is written to the diskette, ALPHABETIZING the file names, UNDELETING deleted files, PURGING (completely removing) deleted files, a TRACK SECTOR USAGE MAP, RENAMING files (with the same character input options as TITLING), LOCKING and UNLOCKING (some or all) files, DELETING files, DELETING DOS for increased data storage, and a powerful SMART KEY to automatically locate the next valid file name for any specified operation.

DISK ORGANIZER 2.x	COPR. 1982, ALL
SENSIBLE SOFTWARE	RIGHTS RESERVED
	16-SECTOR DOS

**THE OPTIONS ARE:**

- A - ALPHABETIZE
- B - CHANGE 'HELLO' (BOOT) PROGRAM NAME
- C - CATALOG (SIMULATED)
- D - DELETE FILE
- E - EXHUME (RESTORE) DELETED FILE
- H - HELP (THIS PAGE)
- L - LOCK SOME OR ALL FILES
- M - MOVE A FILE BEFORE ANOTHER
- P - PURGE (REMOVE) A DELETED FILE
- R - RENAME A FILE
- S - SHOW TRACK-SECTOR USAGE
- T - TITLE (CREATE TEXT FILE)
- U - UNLOCK SOME OR ALL FILES
- Z - ZAP (FREE DOS SECTORS)
- Q - QUIT (END EDITING)

SLOT =6  
DRIVE=1

**QUICKLOADER DISK UTILITIES (continued)****DISK RECOVERY**

\$ 30.00

48K and one disk drive required

This utility will help keep you out of trouble with its BAD BLOCK SCAN option and if you do get into trouble with a "messed up" disk, DISK RECOVERY may "save the day" with its REDO VTOC option.

The BAD BLOCK SCAN option examines all of the sectors on a disk to verify that they are properly formatted (similar to the equivalent option in the Pascal FILER program). This option can be used even if the disk already contains files. If any bad blocks are discovered, the user will be notified which of his files are affected, and a "dummy" file will be generated to "cover" the bad blocks. With the availability of this program, it would be foolish to place your valuable data on a diskette that has not been "scanned" with DISK RECOVERY first!

The REDO VTOC option examines every file on the diskette to detect and correct the following types of errors in the disk VTOC: 1) two files trying to use the same disk sector, 2) part of a file not protected by a "sector in use" bit in the VTOC, and 3) "sector in use" bits in the VTOC that really aren't being used by any files.

"For programmers who don't know how to patch a damaged disk by hand, this is an excellent tool for either 3.2 or 3.3 disks." -  
THE BOOK of Apple Computer Software 1982

**THE ORIGINAL QUICKLOADERS**

\$ 25.00

48K and one disk drive required  
2 diskettes supplied

If you find yourself doing the same things over and over--QUICKLOADERS will help you do it faster! QUICKLOADERS are unique diskettes that let you load DOS, the Language Card, and an application program of your choice extremely fast (under 10 seconds for the Language Card, DOS, and a very large application program). QUICKLOADERS boot as either 13 or 16-sector disks and are easy to set up and use. To change the DOS, Language Card contents, or application program which will be QUICKLOADED, merely load your APPLE RAM with the new data and use the "re-configure" option. The next time you boot the QUICKLOADER disk, it will quickly load this new setup into your APPLE. QUICKLOADER diskettes may be reconfigured any time the need arises.

Some examples of the various uses of QUICKLOADER include: 1) a boot disk that loads DOS 3.2, loads APPLESOFT into the Language Card (without the "basics" disk), and loads & executes the CALL-A.P.P.L.E Program Line Editor, 2) a boot disk that loads MUSE DOS (a convenient way to back up the DOS on your SUPER-TEXT disk!), 3) a boot disk that loads DOS 3.3, loads Applesoft into the Language Card, and loads the Applesoft Programmers Aid from APPLE or 4) a boot disk that quickly loads DOS and loads & executes the LISA assembler (from On-Line Systems).

**GAMES**

**LUNAR LANDER II**

\$ 20.00

24K and Applesoft (ROM or RAM version) required

LUNAR LANDER II features: high resolution moon mountains, moon base, comets, and a lunar lander module. The paddle controller is used to steer the module and to fire retrorockets. Four skill settings provide a continued challenge as players master the effects of gravity and centrifugal force. Novice settings provide occasional comets, while the advanced levels feature guided missiles and smaller moon bases.

**MASTER MAZE for 2 Players**

\$ 20.00

16K and Integer Basic required

MASTER MAZE is based on the popular board game PATHFINDER and features an extremely fast, machine language, maze building algorithm. The game consists of two low resolution mazes which are hidden from the players immediately after they are created. Each player, in his turn, advances through his maze until he strikes one of the hidden maze walls. That wall will then become visible, and the other player will be given control. The first player to locate the hidden treasure in his maze is the winner. Four skill levels are available to provide maze sizes from 7x9 to 19x9.

**QUADRANT 6112**

\$ 34.95

DOS 3.3, 48K, and Game Paddles required

QUADRANT 6112...QUADRANT 6112.QUADRANT 6112..QUADRANT6112...QUADRANT6112  
 QUADRANT 6112..QUADRANT 6112.QUADRANT 6112...QUADRANT 6112.QUADRANT 6112.  
 QUADRANT 6112 QUADRANT 6112  
 QUADRANT 6112 The watch is quiet. Scanners show QUADRANT 6112  
 QUADRANT 6112 nothing of rebel activity as you QUADRANT 6112  
 QUADRANT 6112 comb QUADRANT 6112. Suddenly, QUADRANT 6112  
 QUADRANT 6112 a stargate gapes open. A lone QUADRANT 6112  
 QUADRANT 6112 rebel ship surges into space. QUADRANT 6112  
 QUADRANT 6112 More alien comrades follow in QUADRANT 6112  
 QUADRANT 6112 attack. You must hold the Quadrant QUADRANT 6112  
 QUADRANT 6112 from the invaders.... QUADRANT 6112  
 QUADRANT 6112 QUADRANT 6112  
 QUADRANT 6112 ....and you must do it alone! QUADRANT 6112  
 QUADRANT 6112 QUADRANT 6112  
 QUADRANT 6112.QUADRANT 6112..QUADRANT 6112...QUADRANT 6112.QUADRANT 6112  
 QUADRANT 6112...QUADRANT 6112...QUADRANT 6112.QUADRANT 6112.QUADRANT 6112

**PASCAL UTILITIES****PASCAL LOWER CASE**

\$ 25.00

Language System, Pascal, and lower case adapter required

If you use Apple's Pascal for programming or word processing, then PASCAL LOWER CASE is for you! PASCAL LOWER CASE modifies the Pascal BIOS to display lower case letters (if you have a lower case adapter), and provides an easier means of entering lower case letters. Imagine seeing your letters on the screen in true lower and upper case, instead of the awkward upper case in inverse video (Pascal version 1.1 only). PASCAL LOWER CASE uses the popular ESCAPE key method of controlling the case of the characters entered. You just hit the ESCAPE key once to enter one upper case letter; or, to enter a string of upper case letters, just press the ESCAPE key twice. It also allows the direct entry of the following characters: | ~ ` { } \_ and \. Just think how much more readable your programs will be when all of your comments are in lower case letters!

PASCAL LOWER CASE is easy to install. You just run the program once on APPLE1: (APPLE3: for single disk drive users), and you are all set. PASCAL LOWER CASE works with Pascal version 1.0 and 1.1, it automatically determines which version you are using. This modification does NOT interfere with any of the 'Control' character functions normally implemented by the Pascal environment and will 'undo' any alterations made by other commercially released modifications. PASCAL LOWER CASE is designed for a 40-column monitor or television usage. It is not intended to work with 80-column boards since they are supplied with their own lower case drivers. PASCAL LOWER CASE will work with all of the popular lower case adapters, including Dan Paymar, Lazer Systems (both), etc.



**PRINTER UTILITIES****IMAGE PRINTER - EPSON**

\$ 40.00

Applesoft in ROM, 48K, DOS 3.3, and Epson MX series printer (MX-80 and MX-100 must be equipped with the GRAFTRAX 80 option) required

A truly unique "graphics dump" program for the popular Epson printers (MX-70, MX-80, and MX-100). You can print any part of the high resolution screen (visually selected!); print pictures from 1.6" by 2.0" (half size) to a mammoth 6.4" by 11.7" (a partial three times size)! You can print any part of the screen, picking only the highlights of the picture.

IMAGE PRINTER - EPSON gives you full control of how the picture will be printed. You can pick any part of the screen to print, reverse the colors of the screen, compress the image on the screen, print the image normal size, double size, or even print part of the image triple size. Compressed or reversed images may be printed and even saved to disk.

Best of all, IMAGE PRINTER - EPSON is completely menu-driven and simple to use. All options are invoked with single keystrokes and you can even abort or temporarily halt the printing of a picture in the middle of the printout.

The following printer interface cards are supported: Apple Centronics Parallel Card, Epson Parallel Card, Orange Micro Grappler Card, Mountain Computer CPS Multi-Function Card, Tymac Parallel Card, and the California Computer Systems cards 7720A, 7720B, and 7728.

**IMAGE PRINTER - LETTER QUALITY**

\$ 40.00

Applesoft in ROM, 48K, DOS 3.3, and Letter quality printer required

A high quality "graphics dump" program for letter quality printers (Diablo Hy-Term, NEC Spinwriter, Qume Sprint 5, TEC FP-1500, Vista, or Zerox). All of the plots, graphs, and pictures that you could only view on your monitor can finally be transformed into hardcopy output.

IMAGE PRINTER gives you full control of how to print the screen. You can visually select any part of the screen to print, reverse the colors of the screen, compress the image on the screen, or print the image in any one of six sizes.

Best of all, IMAGE PRINTER is completely menu-driven and simple to use. All options are invoked with single keystrokes and you can even abort or temporarily halt the printing of a picture in the middle of the printout.

The following printer interface cards are supported: Apple High Speed Serial Interface Card, Apple Centronics Parallel Card, California Computer Systems Centronics Parallel and Asynchronous Serial Card, SSM AIO Serial Card, and other brands of printer interface cards which are actuated through a user-written 'driver' program (you supply the driver).

**PRINTER UTILITIES** (continued)**IMAGE PRINTER - NEC**

\$ 40.00

Applesoft in ROM, DOS 3.3, and NEC dot matrix printer, model PC-8023A required

IMAGE PRINTER - NEC includes the same great features as the Epson version, but tailored to the NEC dot matrix printer. The NEC version also includes the ability to print the images horizontally or vertically. Full triple size images may be printed vertically.

The following printer interface cards are supported: Apple Centronics Parallel Card, Epson Parallel Card, Orange Micro Grappler Card, Mountain Computer CPS Multi-Function Card, Tymac Parallel Card, and the California Computer Systems cards 7720A, 7720B, and 7728.

**IMAGE PRINTER** (C) 1981 -- ALL  
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LETTER QUALITY VERSION 1.x

THE AVAILABLE OPTIONS ARE:

C = COMPRESS PICTURE NOW IN MEMORY  
 D = LOOK AT DOS CATALOG  
 I = INVERSE OF PICTURE NOW IN MEMORY  
 L = LOAD PICTURE FROM DISK  
 P = PRINT PICTURE NOW IN MEMORY  
 R = RECONFIGURE PRINTER & CARD SETUP  
 S = SET PRINTOUT PARAMETERS  
 V = VIEW PICTURE NOW IN MEMORY  
 W = WRITE PICTURE TO DISK  
 X = EXIT IMAGE PRINTER

WHICH OPTION? (RETURN FOR MENU)?

The MENU from THE IMAGE PRINTER series.

**DISK REPLACEMENT/UPDATE POLICY**

Some Sensible Software products are noncopyable. In the event that one of these "protected" disks becomes damaged or "worn out," the following policy applies:

Upon receipt of the (remains of the) disk that was originally purchased from Sensible Software and the appropriate fee (see below), Sensible Software will return to the purchaser a disk containing the latest version of the original program product. Sensible Software reserves the right to return the program product on a diskette other than the one originally purchased. If the product is still available for the retail price in effect at the time of the original purchase, the fee for this update/replacement service is \$7.50 to cover postage and handling. If the program product now retails at a higher price, the fee for this update/replacement service is \$4.00 plus the difference between the two retail prices. Overseas customers, please include \$5.00 extra for shipping.

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The Bug (BUG )	\$ 50.00		\$ .
Build Using (BU )	\$ 30.00		\$ .
Disk Organizer (DO )	\$ 30.00		\$ .
Disk Recovery ("The Scanner") (DR )	\$ 30.00		\$ .
DOS Plus (DOS+ )	\$ 25.00		\$ .
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Image Printer - NEC Dot Matrix (IPNEC)	\$ 40.00		\$ .
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Pascal Lower Case (PLC )	\$ 25.00		\$ .
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