

\$1.00

# ***PowerSoft's***

## ***Catalog #6*** ***1985 - 1986***



***Award Winning Software***  
***for the TRS-80™***  
***Model I, III, 4, 4P, & new 4D...***

***and now PC/MS-DOS™ as well! \****

\*IBM PC™, XT™, AT™, Tandy 1000, 1200, and 2000 and most other major compatibles.

**POWERSOFT**

17060 Dallas Parkway, Suite 114  
Dallas, TX 75248  
(214) 733-4475

Hello!

Welcome! Thank you for looking at our newest catalog! This catalog represents all the latest versions and descriptions of our products as well as those that we distribute. It also represents six years of knowledge and experience in this business. If you have an older version of a *PowerSoft* product, feel free to contact us for the latest update information. If you are a new customer to *PowerSoft*, thank you! Have a seat and read this catalog over carefully and see if there's anything else you just can't live without! **If you are a brand new TRS-80™ owner, then congratulations and welcome! You've come to the right place!** You've probably found that there's not too many places that you can turn to for good products and fast service. We're one of the good guys that are still around - and we don't plan on changing that either! We don't call them TRASH-80's around here, I guarantee. We have been using TRS-80's to run OUR business since Day One.

This catalog is arriving to you amid much flutter in the industry. With all the talk of companies going out of business, shake-outs, take-overs, mergers, top-management shuffling, planned obsolescence, and changing standards -- isn't it a little refreshing to find a company who is still here doing *what they do best*, after all the changes in the marketplace these last six years? We enjoy what we're doing and our customers show their appreciation in the letters and comments that we receive.

Not only are we still here supporting the TRS-80™, but are now supporting the newer "standards" with our *Super Utility/PC* for PC/MS-DOS™ and *SuperCross/XT*, the state-of-the-art transfer utility that recently was raved about in *80-MICRO*. If you have a TRS-80 and a PC of some type, *you'll want to order this program*.

There are LOTS of new Mod 4 and 4P owners in our ranks now, due to Radio Shack's drastic price reductions. A great time to pick up a new computer and a really a great buy, if you want the latest in TRS-80 technology, other than the new 4D (*still a great buy at \$1199, when compared to what most of us had sunk into Mod I's III's and 4/4P's before the prices were slashed*). We're looking at the Model 4D to continue for some time to come.

**Speaking of the 4D, all of our products support double-sided operation**, if your operating system supports double-sided operation as well, so no update will be necessary if you get a 4D\*. TRSDOS 6.2 *will* support double-sided, by the way. You do not need TRSDOS 6.2.1 just for this. Type: FORMAT :1 (SIDES=2) <ENTER> and everything else is automatic. Just thought we'd mention this, since many didn't know...

Read through our catalog and see if there is anything of interest to you. If you have been one of our customers for years, **THANK YOU!** We have several new additions, some price reductions, and some specials. We're here to help you, so if you have ANY questions please write or call. If you can recommend our products to your friends or associates, please do! There are TOO MANY TRS-80 owners out there who still haven't heard of us! Help us and help your friends. Give them our address or phone number and tell them to ask us for a catalog, ok? Thanks.

We have been fortunate the past six years to have had our products reviewed in many publications. In our catalog, we refer to and quote from these reviews from product to product so that if you would like further information from an unbiased source, you may look it up on your own. *80-MICRO*, *BASIC COMPUTING*, *80-US Journal*, and *H & E Computronics* are the main sources quoted. We realize that many of you may not have a magazine collection going back several years, so if you would like a copy of any of the reviews mentioned, please send us a self-addressed stamped envelope requesting the reviews on products you'd like to see. Another idea is to go to just about any major book store that has a decent computer book selection. There are two very good books that contain reviews of MANY major TRS-80 programs, including many of ours in this catalog. The two books are *OMNI COMPLETE CATALOG OF COMPUTER SOFTWARE* (Collier Books - \$13.95) and *INFOWORLD'S ESSENTIAL GUIDE TO THE TRS-80* (Harper & Row - \$16.95). Both of these books are full of good info for beginners! Especially the *INFOWORLD* book.

If you have any questions about any of the products in this catalog please drop us a note or call. We are here to help you. If you include a self-addressed stamped envelope you'll usually get answered a LOT quicker since it's easier for us to dash off an answer and get it right back in the mail to you. Also read our **POLICIES** on the inside back cover. It covers the many different situations that might come up and might answer your question if it involves ordering.

**On-line help, advice, answers and ordering.  
Visit the PowerSoft SIG on CompuServe™.**

**Type GO PCS-56 from any menu prompt!**

TRS-80, TRSDOS, Radio Shack, SCRIPSIT, and SuperSCRIPSIT are registered trademarks of TANDY CORP. • LDOS is a trademark of Logical Systems • IBM PC, XT, and AT are registered trademarks of International Business Machines • MS is a registered trademark of MICROSOFT • LOTUS and 1-2-3 are registered trademarks of Lotus Development Corp. • All companies and names of products mentioned in this catalog are covered by their various trademarks and registrations.

\*If you are using NEWDOS/80 (any version) the only product of ours that does not support double-sided operation is SUPER UTILITY 3.2 and SU 4/4P. Other double-sided DOSes are supported.



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# AFM - Auto File Manager

A new generation of data-base for the TRS-80™

 Special Introductory price on this new item!

Only \$99.95!

comments: New generation of data base systems. Works on Model III, 4(III) or MAX-80. Works with most popular TRS-80™ operating systems. At least one disk drive required - two is better. Hard drive is great! AFM will work on a Mod I, but double-density & lower case are required. On the Model I, we recommend LDOS.

You may think we're crazy, but we have a new data-base system. Why would we do that NOW? There is (or was) PROFILE™, PROFILE+™, MAXI MANAGER™, ENBASE™, etc., etc., etc. Well, when we got our first Model I, the concept of what a data base manager could do was definitely exciting. We bought or looked at all of them as they came out and never really stuck with ANY of them for anything serious. (We ended up writing PowerMAIL+ to keep our product registrations on). None of them were what that we had pictured. They didn't have any "magic" to them. None of them handled information in an easy way to enter, look up, and print out that was logical, efficient, and flexible. YES. The keyword here is FLEXIBLE. You see, most data bases do allow you the flexibility to "design" your screen, field lengths, etc, but once you had that entered, and were adding names, you were stuck with it. If it was changeable, at all it certainly wasn't changeable from name to name! Another reason is that the TRS-80™ needs a new database manager! Why? There are millions of the machines out there that can get some real work done for you! You don't need a PC to do complicated relational reports from your stored data (or even simple ones)! Just program the computer properly is all!

Tim Miller, the author of PowerDOT and PowerDOT II has been feverishly working on this project for over two years now. He and our crew here discussed what they thought a data base should be and do, how to do it, and came up with a different concept for the TRS-80™ computer. Then we did a special beta offer to our registered customers last year and had them use the system and get back to us with what they like, what they didn't like, and what they would like to see in the system. One year later - the NEW AFM is ready. It contains every feature from everybody's "wish list" that made sense or was possible. Then, we put THAT version into local beta-testing. AFM is what every computer owner WANTS to do with their computer. AFM makes maximum use of the TRS-80™ and competes favorably with many available for PC type computers! It can only be compared to D:BASE III™ or R:BASE 5000™, as far as concepts and power. AFM is a language that you can program your database in!

The package consists of three integrated modules that can be called from within each other. AFM - Auto File Manager - is the actual data-base program, AFR - Auto File Reporter - is the obviously the module that prints out your reports, and AFU - Auto File Utility - recovers space and keeps the files integrity intact.

AFM is a free-form entry system, which means that you can enter your data in any way you want! You are not limited to a particular screen format. In fact, each record can have its own individual display format! Really!!

One of the unique features of AFM is the ability to define the same field repeatedly within a record. How many times have you agonized over the fact that you need to enter two telephone numbers for a customer, when there's space for only one number in your database record? With AFM, you simply find a blank spot on the screen and retype the field name, followed by the relevant data. AFM's search routines will find every occurrence of a field within a record, no matter how many times it is repeated.

An AFM record can be up to 4096 bytes long (including field name information), but this does not mean that EVERY record takes up 4096 bytes of disk space. This is very important, because it would have been much easier (and very lazy) to have written the program this way. Each AFM record takes up only as much space as it needs. If the record must be expanded, then more space is taken up on the disk. AFU (the Auto-File Utility) will later allow you to recover unused space within an AFM database file. The size of an AFM database file can expand to accommodate a full fifteen megabytes, but does not grab your whole disk like most other systems, if you don't want it to.

AFM allows you to set printer parameters through a FORMS command very similar to the FORMS command of many popular disk operating systems. This allows you to control your report formats. Totally

Independent of FORMS, is a COLUMN parameter which is used for defining column widths on display. Thus you have complete control over the formatting of your data for printing and display.

Sorting within AFM is automatic (no wasted time on sort runs). Once the sort field has been defined, every record entered with that sort field will automatically be placed in the correct position relative to the other records in the file. However, you can list the contents of ANY field in sorted order at any time. In addition, searching can be performed on the major key fields through the use of powerful relational operators including AND, OR, GREATER THAN, LESS THAN, EQUAL, NOT EQUAL, etc.

AFM has a second module included called AFR (Auto File Reporter). It is the MOST powerful report generator ever made available for the TRS-80 computer. Fully relational reports can be generated by applying any set of parameters to your data base. AFM also contains a BCD MATH Package which will allow you to have a running total on numeric fields in reports if desired, using + - \* / operators. Accuracy is assured by using BCD math instead of floating-point and output is automatically formatted.

AFM contains numerous HELP screens, which can be invoked at the touch of a key. The help screens are user-controllable and user definable; you may set up your own help screens for a particular application if you wish! It is very easy to set something up for people who don't use the system all the time.

A personal user of AFM can keep his coins, records, books, video tapes, program titles, names and addresses, serial numbers of valuable items, insurance information, etc., all in one data file without shuffling disks, changing programs, or loading a different file. This is the type of system where you can just keep on typing in data of all kinds, whether it is alike or not, and collect it over time. Look up any data you want at any time. Type in all the statistics about your favorite hobby, and pull them up to the screen in a moment. Add to that everything else you've wanted to store on computer. Isn't this what YOU always thought a data base should be?? Of course, storage should always be considered when getting elaborate. If you have plenty of storage, then you can just keep on adding!

A business user has the similar capabilities, but in different areas. You can see the flexibility that AFM will give you!

Below are a list of NEW features implemented by public and popular demand during our beta-test period:

\* NEW AFR FEATURES FULL SORTED OUTPUT! Output of AFR is FULLY SORTED BY ALL FIELDS and is FULLY RELATIONAL. We can't imagine ANY report that cannot be performed by AFR. You can field your data each with different field lengths.

\* NEW FORM -LETTER OUTPUT! AFM will allow you to write documents and have the data filled in automatically by AFR.

\* NEW RELATIONAL LOOKUP report allows multiple passes through the data-base while generating reports. You can utilize information from ALL NINE drawers in the same report. Information from Drawer One can be used to get more information from Drawer Two etc.

\* MAIL labels etc. are a cinch with AFR! NEW <T>ext option allows selected field output without fielding the information before hand.

\* NEW FORMS FILTER PARAMETERS include WORD WRAP, PAGE NUMBERING, HEADERS, and VERTICAL JUSTIFICATION.

\*\*\* 101 MORE changes and new features have NOT been listed, but have been asked for in a call or letter. Things like a LIBRARY for data-entry screens, a REPORT library to hold your reports, automatic data entry for fields such as "Date:01/01/84", more math functions, and more!

Available November 1985!



# SUPER UTILITY+ 3.2

for TRS-80™ Model I, III, or 4 in III mode.

*"The KING of Utilities", "A MUST for disk-drive owners..."*  
One of the most highly acclaimed programs for the TRS-80™ ever...  
Winner of numerous awards and highly reviewed by all...



★★★★★

This program is a legend in its own time.

We didn't say it. Everyone else did. *SU+* is an industry standard. No other program has received the awards and repeated number of high reviews as *SUPER UTILITY PLUS* has. *80-MICRO* called it *"The KING of UTILITIES"*. They said, *"Don't BOOT UP without it!"* And topped it off with a *FIVE-STAR* rating. Every major computer magazine has praised it and rated *SUPER UTILITY* as a *"MUST HAVE program for EVERY disk drive owner..."* *SU+* was the *1st Place Utility winner two years in a row* in *80-MICRO's READER'S CHOICE AWARDS* contest. *INFOWORLD* gave it an *EXCELLENT* rating in all four categories. On top of that we have received thousands of letters from users showing their appreciation for the program.

## What will Super Utility+ DO for YOU?

If you have ever crashed a disk, lost a file, got a CRC error, wanted to kill or transfer many files from all kinds of assorted DOSes in mixed densities, format or backup many disks, or forgot a password, you will appreciate *SUPER UTILITY PLUS*! We have letters in our files where *SU+* has saved files, time, jobs, careers, marriages, and even sanity! Truly the most extensive, useful disk utility ever written for the TRS-80, with approximately 75 different functions, and totally stand-alone.

*SUPER UTILITY PLUS* is a 37K machine language program which gives you approximately 75 different functions for manipulating disk sectors, files, or memory; formatting a disk in a variety of ways; backing up a disk; repairing crashed disks, and more! All current popular DOSes on the market are supported by *SU+*. You can copy files from one DOS to another DOS quite easily even though they can't read each other's disks (NOTE: NEWDOS/80 support is provided for standard configurations only). You can zap disk sectors directly, copy sectors, compare sectors, compare files, purge a disk directory of unwanted files (fast!!), repair damaged disk directories and boot sectors, create special format disks, copy special formatted disks (not guaranteed to work on ALL protected disks), examine file locations, display disk allocation maps, read and alter data address marks, test memory, and more!

Do you want to reformat a disk without losing the data on it? *SUPER UTILITY PLUS* will let you do it! Do you want to "bulk-erase" a disk without removing it from the drive? *SUPER UTILITY PLUS* will let you do that too! Do you need to copy all your TRSDOS™ or NEWDOS/80 files onto LDOS maybe? Need to read 40 track disks in an 80 track drive? Need to take your Mod I disks and copy them over to your Mod 4 or III? Want to add 5 extra tracks to your 35 track diskettes to make them 40? *SU+* will do ALL of the above and more - easily and quickly. *SUPER UTILITY PLUS* will allow you to configure it to the characteristics of your disk drives and DOS. There is even double-sided support in *SU+ 3.2* for LDOS, TRSDOS 6™, or DOSPLUS (no double-sided support for NEWDOS/80).

*SUPER UTILITY PLUS* is totally memory resident. After you load the program, you can take the disk out and put it away. An operating system is not necessary. This means that you can use ALL of your disk drives for your operations. The program also has a screen printer routine, as well as DUAL mode (output to video and printer). High speed clock is supported as well.

## Reviews of Super Utility Plus...

*SUPER UTILITY* has been reviewed so many times in so many magazines and books that we now list a compendium of references for you. If you don't have any of these magazines, go to just about any major book store that has a decent computer book selection. There are two very good books that contain reviews of MANY major programs including many of ours like *SU+*. The two books are;

*OMNI COMPLETE CATALOG OF COMPUTER SOFTWARE* Collier Books  
*INFOWORLD'S ESSENTIAL GUIDE TO THE TRS-80* Harper & Row

*\*OMNI's book said; (just a brief quote. There is much more) "It is probably the most versatile, comprehensive, and useful single disk utility package ever written for a microcomputer... There is no way to discuss everything this package can do. Most books would be far too small to more than catalog its powers."*

## Various magazine reviews of Super Utility Plus...

*\*80-MICRO* called it *"THE JAWS of LIFE"* and gave it *FIVE STARS \*\*\*\*\** in the Oct. '83 issue! They also said, *"This program is a fire engine. You don't need it every day, but when you do, nothing else will do the job."*

*\* In the Jan. '82 issue of 80-MICRO, SU+ was summed up... "A MUST HAVE program... WELL WORTH the purchase price."*

*\* In the Oct '82 issue of 80-US Journal, they had this to say... "It is claimed to be the last word in utilities, and this reviewer must admit that nothing currently available equals it in power and usefulness. SUPER UTILITY PLUS certainly deserves a place in every serious disk user's library."*

*\* The Nov. '82 issue of H & E Computronics said... "...no system should be without it. The best program of its type, and well worth having!"*

*\* INFOWORLD, in their Sept. 12, 1983 issue (Vol.5, #37 • also reprinted in their book), gave SUPER UTILITY PLUS excellent marks in all four categories! They summed it up with... "Every TRS-80 owner who tries this utility will find it as indispensable as gas and electricity."*

*\* Popular Mechanics, in the Feb. 1983 issue stated, "SU+ is a first-aid kit for TRS-80 and is amazing..."*

Don't miss out on THIS program! The BEST there is, no doubt.

**Only \$79.95**

48K required. Minimum 1 disk drive. Two is better.  
Contains 170+ page manual, binder, & MASTER disk and BACKUP copy (protected media). Upon registration, at your option, you may obtain an unprotected copy for \$20. (Foreign orders must add \$5 airmail postage.)

Works in Single or Double density on TRSDOS™ 2.3™, 1.3™, 2.7DD™, 6.x™ (Mod 4), LDOS™, DOSPLUS™, MULTIDOS™, DBLDOS™, NEWDOS™, NEWDOS/80 V.2™ in 35, 40, or 80 tracks. Boots on 35, 40 or 80 track drive. Allows you to copy files between all these formats as well!



## Using Super Utility 3.2, Super Utility 4/4P, and PowerTOOL

**Newly revised edition!**

(a perfect bound gloss-cover book) only \$19.95

Using Super Utility 3.2, Super Utility 4/4P, and PowerTOOL is a user's guide to the intricacies of SUPER UTILITY and its family of programs written from the point of view of a user, i.e., Paul Wiener (who used to be an editor for 80-MICRO). Paul describes many of the things which may not be immediately clear from reading the SU manual, and details a step by step process for recovering bad disks, configuring, etc. Also includes disk theory and why accidents happen. A perfect book for understanding what a utility is, and why you would want to use it. Terrific for novices and experts alike! Gives a different viewpoint on using these extremely powerful utilities. Also helpful for use with THE LDOS TOOLBOX and MODEL 4 TOOLBELT in many situations, as well as educational use.

**Inside Super  
Utility Plus**

★★★★★

Paul Wiener and Gary Camp  
PowerSoft Products

17060 Dallas Parkway  
Suite 114  
Dallas, Texas 75248  
\$19.95

Well-written?	★★★★★
Organized?	★★★★☆
Thorough?	★★★★★
Readable?	★★★★★

80-MICRO reviewed the previous edition of this book in the Feb '84 Issue. They said...

*"There's something sad about the guy who buys a Maserati and drives it like his old slant-six Dodge; likewise the person who buys SU+ and just parks it on the shelf... All in all, the difference between the guy who keeps it (SU+) on the shelf and the guy who drives it around his disks is a few hours spent with INSIDE SU+ Series 3.0/3.2. For my money, I'd rather drive."*

INSIDE SU+ 2.2z book still available @ \$9.95 plus s/h.

## SUPER UTILITY+ 3.2 TECH MANUAL

author: Kim Watt

price: \$14.95 - NOT available for SU4/4P.

Supplied as a three-hole punched pages to be placed in your Super Utility Plus manual binder.

\*Limited number of tech manuals still available for version 2.2z @ \$5.

This book will be of great value to the machine language fan who wants to know MORE about SU+, its call points, explanations of them, vectors, etc. This book is NOT for the beginner, but IS a valuable tool for those that want to know more about the inner workings of this fantastic program and are familiar with assembly language.

# SUPER UTILITY 4/4P

Another 5-STAR Winner!

Sept. '84 issue of 80-MICRO, Page 166

price : \$79.95

machine: Model 4 or 4P (requires 64K, at least 1 disk drive)  
contains 148 page manual in deluxe binder. Will only boot on Mod 4/4P/4D, but is compatible with most Model I/III operating systems, as well as TRSDOS™ 6.x. Great for transferring files from your older TRS-80 disks, regardless of density or DOS type!

**Super Utility 4/4P**

★★★★★

**PowerSoft Products**

17060 Dallas Parkway  
Suite 114  
Dallas, Texas 75248  
(214) 733-4475

Model 4/4P, 64K RAM  
One disk drive  
(Two are preferred)  
~~\$99.95~~

Easy to use?	★★★★★
Good docs?	★★★★★
Bug free?	★★★★★
Does the job?	★★★★★

SUPER UTILITY 4/4P is what all you Model 4 users have been waiting for! A TRUE Model 4 version of the famous Super Utility Plus! It boots on Model 4 or 4P computers in the Mod 4 mode and gives you the same power and versatility as its predecessors PLUS enhancements that take advantage of the Mod 4's new features. Model 4P users will be able to boot this disk without first having to load the MODEL4/III ROM image file. Boot-up is extremely fast. Super Utility 4/4P combines streamlined code (redundant routines have been deleted) with the additional memory of the all-RAM Model 4 to provide you with larger data buffers and faster execution times as a result. The limitation of not being able to copy files to/from double sided diskettes is no longer present due to increased available memory in SU4.

The function keys of the Model 4 are fully utilized to provide you with additional easy one key-stroke functions. In addition, the F3 function key is user-definable and may be set to take you directly to the sub-menu of your choice from anywhere in the program.

The configuration display has been considerably simplified, and the default configuration is now for TRSDOS 6; however any TRSDOS-type format may be configured, from TRSDOS 2.3 to LDOS, NEWDOS/80 and DOSPLUS. In other words, you may configure your Model 4 for any of the popular Model I or III single or double density operating systems, as well as Model 4 TRSDOS 6. This makes it extremely easy to transfer files back and forth between all the different disk formats out there for the TRS-80. If you have a bunch of older disks, this is a great way to get them all over to Mod 4 format real easy! SU4/4P takes care of all the "converting" and no writing or changing is done to the original disk. Please see SU+ 3.2 write-up for more details.

**Super Utility's 4/4P's MAIN MENU** (above)

```

** Super Utility 4 ** PowerSOFT Prod. ** By: Kim Watt **
Copyright © 1984 Breeze/QSD, Inc. - All Rights Reserved

Memory Utilities

1 _ Display Memory          7 _ Test Memory
2 _ Move Memory            8 _ String Search
3 _ Exchange Memory        9 _ Input Byte from Port
4 _ Compare Memory        10 _ Output Byte to Port
5 _ Fill Memory           11 _ Track to Memory
6 _ Reverse Memory

Choice? 0 _

```



# Hard Disk/Floppy Utilities

## Model 4 ToolBelt\*

A serious set of utilities for the 4/4P and hard disk or floppies.

**Price: \$49.95 for the full set of programs/tools**  
 • Runs under all version of TRSDOS™ 6.x  
 • Supplied on TRSDOS™ 6.2 under license from Tandy Corp.  
 • Will work with any configuration of floppies or hard drives running under TRSDOS 6.x.

**Toolbelt**

★ ★ ★ ★

**Powersoft**  
 Brown/OSD Inc.  
 41000 Stemmons-Freeway  
 Suite-125  
 Dallas, TX 75249  
 Model 4  
 TRSDOS 6.X, one disk drive  
 \$49.95

*Easy to use?* ★★★★★

*Good docs?* ★★★★★

*Bug free?* ★★★★★

*Does the job?* ★★★★★

### Toolbelt For TRSDOS 6.X

by Mark D. Goodwin

**T**oolbelt is a virtual gold mine of worthwhile TRSDOS 6.X disk utilities for the advanced programmer. Among other tasks, these utilities let you make disk modifications and repairs, map disks and files, erase disks, and remove passwords

80 Micro, May 1984

**MODEL 4 TOOLBELT** rated a **FOUR STAR** review last year in the May '84 issue of *80-MICRO* (page 200). The programs have been tested on all the various versions of TRSDOS 6™, and is distributed on TRSDOS 6.2™. They will work on any combination of single or double sided drives and hard drives! Works with Radio Shack Hard Drives as well as other hard drives configured for use with TRSDOS 6.x! These programs add tremendous power and flexibility to your operating system, as well as performing maintenance and even "surgery", if necessary. If you run a hard disk, you'll really want and NEED these programs. Directory check and repair tools are included. Repairs crunched hit or gat tables with ease!

The utilities include programs for disk analysis and repair, file or directory checking and repair, extensive disk modifier, memory modifier, file modifier, sector verifiers, file and sector comparers, filters, file or disk mapping, password manipulation, password removal, mass file moving, mass file killing, erasing, disk drive exercising, disk and file search/replace, and MORE. Each program contains a built-in "HELP" prompt. Anytime you are asked a question by the programs and you forget what to do, or don't know what it is asking of you... just hit the <ENTER> key! A full command structure will be displayed on the screen instantly! All utilities are written in machine language, contain excellent documentation, and unprotected!

Each program contains a built-in "HELP" prompt. Anytime you are asked a question by the programs, and you forget what to do, or don't know what is being asked of you... just hit the <ENTER> key! A full command structure will be instantly displayed on the screen!

Mark Goodwin said in the MAY '84 *80-MICRO* ...

*"ToolBelt is a virtual goldmine of worthwhile TRSDOS 6.x disk utilities..."*

*"Simply put, ToolBelt is a superb software package."*

*"This package would be an excellent addition to any Model 4 owner's library."*

\*\*\*\*\*

\*Model 4 ToolBelt may be ordered at Radio Shack Computer Centers or stores. Ask for Tandy Third Party Catalog #90-0245.

## The ToolBox for LDOS

A serious set of utilities for the I/III and hard disk or floppies running LDOS.

**Price : \$49.95 Was \$69.95 in our last catalog!**  
 machines : Mod I, III, Mod 4 in III mode, LNW, MAX-80  
 comments: Requires LDOS™ ver. 5.1.3 or 5.1.4 (Mod I, III or MAX). Works with any configuration of floppies or hard drives running under LDOS 5.1.x, except where noted. Perfect for Tandy's hard drive (5, 15, or 35 meg) as well as all others running under LDOS.

**T**he utilities to perfect LDOS are available in Powersoft's Toolbox. You'll also get patches and filters to make your system manageable.



80 Micro, September 1983

As *80-MICRO* said, "a set of utilities to perfect the use of LDOS..." and rated **FOUR STARS** "\*\*\*\*" in the September '83 issue. These valuable "tools" are written by the same author as SUPER UTILITY+, but unlike SU+, these utilities will work on double sided drives and hard drives, as well as all kinds of floppies! They work with Mod I, III, or 4(III), single or double density, ALL media formats (except where noted), including 8" drives on a MAX-80 or LX-80-equipped Model I. Also is fully compatible with the Radio Shack™ hard drive and most other hard drives which are supported by LDOS 5.1. Each TOOLBOX consists of diskette, a 70 page manual and contains all files mentioned in *Mod 4 ToolBelt*.

Each program contains a built-in "HELP" prompt. Anytime you are asked a question by the programs, and you forget what to do, or don't know what it is asking of you... just hit the <ENTER> key! A full command structure will be displayed on the screen instantly!

The TOOLBOX contains over 20 files. It is shipped on a 40 track, double density LDOS data disk. If you *only* have Model I, single density, please state this in your order and add \$10 for the additional disks needed. Disk(s) are unprotected.

Jlm Hled said in the Sept. 1983 issue of *80-MICRO*...

*"All the programs in THE TOOLBOX work the same way - beautifully. The programs are carefully error-trapped."*

*"This toolbox is definitely the craftsman's toolset. The programs are error-free and work well with LDOS. They are powerful and easy to use..."*

*"The file-moving and file-killing utilities are real time-savers. If you have a hard disk or several floppy disk drives, these gems are worth the cost of the package themselves. In fact at the new price of \$69.95 (these same programs used to sell for \$149.95!) THE TOOLBOX should be part of every LDOS user's system."*

\*this was 1983. Remember - now \$49.95!

If you have a Mod 4/4P and use LDOS AND TRSDOS 6, buy BOTH sets of utilities and take 50% off the price of LDOS ToolBox! Both sets of tools for \$75! Great for split hard drives running in both modes!



# SUPREME HARD DISK DRIVERS

for Model I, III, and 4/4P using LDOS™ and/or TRSDOS™ 6

- Model 4P owners can now BOOT directly off the R/S hard drive without a floppy!
- Model I/III owners can use Tandy's 5, 15 or 35 meg hard drive with LDOS
- Model 4/4P owners can divide hard drive and run in both Model III and Mod 4 mode off hard drive and share data (using LDOS & TRSDOS 6)
- Will work with most popular hard drives using WD-1000 controller (or look-alike)

PowerSOFT has a complete line of Hard Disk Driver packages that offer *much greater flexibility* over the standard drivers supplied by Tandy or other hard drive manufacturers. They allow you to split up your hard drive into partitions of differing sizes, and also allow you to define granule sizes and other optimizing operating characteristics to achieve maximum from your drive. The drivers themselves can be used on hard drives of various capacities, *not* just 5 megabytes, but any of the sizes now being sold. At the same time, the driver routines themselves (once relocated) are very small (usually less than 256 bytes) and take up little room in memory. Most hard drive companies either sell or recommend our drivers.

All of our driver packages include a self-relocating driver program, a hard disk formatter which works in concert with the standard FORMAT utility, and a hard disk verifier for mapping and locking out media errors. COMPLETE documentation is also included, of course. These drivers can also be used to allow a hard drive to be shared between LDOS 5.1 and TRSDOS™ 6 for those Model 4 or 4P owners who have both operating systems! Now you can share common data between Model III and 4! You can keep all your Model III programs AND your Model 4 programs, as well as the data, all on one hard drive. Just by booting a different disk (LDOS or TRSDOS 6) you are in the Mod III or Mod 4 mode running off your hard disk in either case! It's great. No reason to run from floppies when you can run from your hard drive in either model!

Some hardware manufacturers feel that software is only necessary to sell hardware, and in many cases do not fully take advantage of what that hard drive is capable of, or just don't do it properly. We have seen some cases where the drivers were very poorly written and did not accurately handle the critical data transfer speeds that are so critical in using today's hard drive technology (or were too darn big). Unfortunately, some of those are still being offered today. *We specialize in software.* We understand hard drives, and have worked with almost all of them over the last few years. *The more you know about hard drives, the more you'll WANT our drivers. The LESS you know about hard drives, the more you'll NEED our drivers!* Trust us. You can rest easy when *OUR* software is running *YOUR* hard drive! Our drivers are used by many major corporations, universities, government agencies, and satisfied users all over the world.

*\*Buy one of our Hard Disk Drivers and get BACKREST 1.3 for HALF-PRICE! Only \$50 with purchase of any of our drivers! (\*both must be purchased at the same time.)*

## SERIES R/S Drivers

For Radio Shack™ hard drives running under LDOS (Model I/III) and TRSDOS™ 6.x (Model 4). TRSDOS 6.2 is recommended. Supports 5, 15, or 35 meg Tandy drives. Model I/III and Model 4 drivers are supplied in the same package. These drivers allow full partitioning flexibility by either the head offset method or the cylinder offset method. At the same time, they are fully capable of addressing the maximum logical drive size of 13 MEGABYTES in a single partition! Included on the disk is an INSTALL program which will create an *AUTOMATIC INITIALIZATION* JCL file for your hard drive, based on the characteristics which you type in, as responses to a few questions you will be asked. You may set up your drive many different ways; number of partitions, sizes, etc. INSTALL will format, verify, completely setup your hard drive, and produce a configuration which can then be SYSGEN'ed permanently.

**Attention Model 4P Owners - Great News!!**  
*Direct hard drive booting (No boot floppy required!!) from the Model 4P supported, just like a PC/XT or a TANDY 1200! Simply power-up, and you will boot right off the hard drive in the Mod 4 mode! If you need to use the Mod III mode, just boot up your LDOS system disk. Works on Tandy & Apparal hard drives ONLY.*  
**\$99**

## WD SERIES I Drivers

Same as above, but for *non-Tandy hard drives* using the WD-1000 controller board. Supports 5, 10, 15, 20, or 30/35 megabyte drives on Model I, III, or Model 4 *yet uses less than 256 bytes of memory!* Direct hard drive booting is NOT supported. The WD Series I drivers may be used on hard drives from Percom (Aerocomp), MTI, CompuKit, Micro-Design, Level 4, Prometheus, and others utilizing a Western Digital-1000 controller board. Supports both Mod III and Mod 4 systems on the same drive. Now share data between systems!  
**\$99**

## Model 4/4P Drivers • Percom/Aerocomp

Specifically for use with Percom PHD hard drive units sold by Percom and Aerocomp and the Model 4 or 4P. These drivers are the same ones sold by Percom and Aerocomp, and provide complete support for their hard drives under TRSDOS™ 6.x, including new version 6.2, *which we now include with this driver (under license from Tandy).* If you originally bought your hard drive for a Mod III, *these are the drivers that make it work with your new Mod 4/4P!*  
**\$75**

# BACK/REST 1.3

with RESTORE/DCT now included!

**A FAST Hard Drive "Image" Backup and Restore Utility.**  
Backups or restores an entire logical drive, or file-by-file.  
Files larger than a floppy are **NO PROBLEM** any longer!

**"BACKREST is strongly recommended as insurance against possible digital disaster."**

\* George Antunes, Oct. '85 issue 80-MICRO

**This is a MUST-HAVE program if you use a hard drive.**

**Awarded \*5 STARS\* in the Oct. '85 issue of 80-MICRO! A perfect rating in every category! Please read the review on following page.**

★ ★ ★ ★ ★

**Backrest** runs on the Models I, III (48K), and 4 (64K) and requires one disk drive and a hard drive. Powersoft Products, 17060 Dallas Parkway, Suite 114, Dallas, TX 75248, 214-733-4475. \$99.95.

Easy to use: ★ ★ ★ ★ ★

Good docs: ★ ★ ★ ★ ★

Bugs: ★ ★ ★ ★ ★

Does the job: ★ ★ ★ ★ ★

**Highly recommended by Logical Systems, creators of LDOS and TRSDOS 6. Ask them!**

- For Model I/III or Mod 4 TRS-80™ (or MAX-80).
- ALL versions included on same disk.
- Works under LDOS™ 5.1.x or TRSDOS™ 6.x.
- TRSDOS™ 6.2 is fully supported.
- Program is not protected.
- BACK/REST will work with all TANDY hard drives and most others that use LDOS™ or TRSDOS™ 6.
- Version for DOSPLUS 3.5 I/III also available for \$75.

You know you *should* backup everyday, right? Let's face it, the normal file-by-file backup method employed by today's operating systems takes so long that it actually discourages people from doing backups. *HARDCOPY/BAS... forget it.* Slow as molasses. So you only do it every now and then... When you think of it... Maybe once a week. Or month. Sometimes. *Right?* Our experience shows us that with many users, the longer they've owned a hard drive, the less they're prone to backup regularly. They get too dependant on the hardware. You're OK until the day that disaster strikes. *Dangerous to a business that needs it's data daily!*

Then there's ALWAYS the problem of files too large to fit on a floppy! Like PROFILE™ or other types of data files. BACK/REST solves all that! It segments those and can restore them back without you having to worry about it and figure it all out. BACK/REST is a **FAST** backup and restore utility for hard drives which can create a mirror-image of your hard drive partition on floppy disks in 20% of the time a file-by-file backup would normally take; a 5 megabyte drive should take about 10-15 minutes. There is NO EXCUSE for not backing up your hard drive now... do yourself a favor.

BACK/REST is *simple* to use and will even tell you just how many floppies you will need to have formatted in advance for backup. We've tried to think of everything! It's a terrible feeling when you

are doing a backup and are requested to insert another disk, yet you don't have any more formatted! Now BACK/REST will tell you how many disks you need to have on hand BEFORE you start. Furthermore, only allocated cylinders of the hard drive are copied to speed things up *substantially*.

Through the use of a special included DRIVER program (RESTORE/DCT) supplied with BACK/REST 1.3, you can READ or COPY individual files from your BACK/REST backup floppies back to the hard drive. RESTORE/DCT is installed with the SYSTEM (DRIVE=x, DRIVER) command just like any other disk driver and will prompt you when to swap disks in order to extract the file you want. You now have the best of all worlds: a FAST, COMPLETE backup/restore utility for a hard drive that gives you the option of restoring either an entire hard drive partition OR a single file! When restoring to hard drive using the "image" mode, the floppies can be inserted and read in any order. When restoring "file-by-file", you are prompted for the proper disk #. You may restore a single file or any set of files that you want to. Never be at the mercy of a crashed hard drive again. *BACK/REST is the answer to every hard drive user's prayers!*

If you've invested good money into a hard drive system, it *doesn't make any sense not to have a BACKUP routine.* Especially if you're running your business on it! BACK/REST makes that job easier and saves *much* time. And **TIME IS MONEY.** Don't delay! Save HOURS! BACK/REST will work with all current TANDY hard drives and most others that use LDOS or TRSDOS™ 6, including the Tandy 15 and 35 Meg drives. **\$99.95**

**DOSPLUS 3.5 Users:** We have a version of BACK/REST for you too! The main difference between the DOSPLUS version and the LDOS/TRSDOS 6 version is that you cannot restore file-by-file. You must restore an entire division, but the *same blazing speed* is built into this version as above. A typical division on a 5 or 10 meg drive should only take about 3-12 minutes to BACKUP or RESTORE depending on size of drive and how much data is being copied. *NOT for use with DOSPLUS IV. Only Version 3.5 on a Model I or III/4. Only \$75.*

BACK/REST 1.3 for TRSDOS 6™ & LDOS	\$99.95
BACK/REST for DOSPLUS 3.5	\$75.00
LDOS ToolBox	\$49.95
Hard Disk Repair & Recovery Tools for LDOS - Mod I/III	
Model 4 ToolBelt	\$49.95
Hard Disk Repair & Recover Tools for TRSDOS 6 - Mod 4	
or... if your hard drive is split Mod 4 and III - get both!	
Both sets of tools for only	\$75.00

BACK/REST and your choice of ToolBox for LDOS or Model 4 ToolBelt only \$139.95

BACK/REST and BOTH sets of tools only \$159.95

BACK/REST and our Supreme Rigid Driver\* only \$149.95

\*add either ToolBox or ToolBelt for only \$29.95 more!

BACK/REST 1.3 and Model 4 ToolBelt may also be ordered from Express-Order-Software at all Radio Shack™ Computer Centers and stores. Ask for Catalog #90-0244 for BACK/REST 1.3 or Catalog #90-0245 for ToolBelt. No combo deals.

# Lean on Backrest for Hard Disk Back-Ups

by George Antunes

★★★★★

**Backrest** runs on the Models I, III (48K), and 4 (64K) and requires one disk drive and a hard drive. Powersoft Products, 17060 Dallas Parkway, Suite 114, Dallas, TX 75248, 214-733-4475. \$99.95.

Easy to use: ★★★★★

Good docs: ★★★★★

Bugs: ★★★★★

Does the job: ★★★★★

While hard disk drives significantly increase disk storage capacity and reduce access time, they also can be difficult to live with. Backing up frequently updated files is time-consuming and tedious, and backing up files larger than a single floppy disk can hold is especially vexing since ordinary back-up utilities can't handle the chore.

That's where hard disk back-up utilities, like Backrest, come in. Backrest copies the contents of an entire hard drive partition to a floppy disk or restores a partition from the floppy. You can also restore selected files from a

Backrest archive. Backrest performs well and works fast, and it couldn't be easier to use.

## Using Backrest

Backrest comes ready to install under either LDOS (for the Models I and III) or TRSDOS 6.X (for the Model 4). Once you boot your system, you put the Backrest disk in drive 1 and type in INSTALL. After you answer the destination disk prompt, Backrest determines which operating system you're using and transfers the appropriate copy of the software to the target disk.

Backrest works with all flavors of 5-1/4 inch disks (40- or 80-track, single- or double-sided) and with single- and double-sided 8-inch disks.

When you start the program, it asks whether you want to back up or restore files. If you choose the back-up option, Backrest prompts you for a source drive. It examines the source and calculates the number of floppy disks you'll need to handle everything. While you can specify files you want restored, backing up is an all or nothing-at-all proposition.

Backrest accepts any type of disks for back-up, as long as you have them in the same format, without locked-out sectors or tracks. Once you prepare the neces-

sary number of disks, you must number them sequentially.

You can restore a partition previously copied to floppies in any order, but if you elect to restore a single file from a partition, Backrest prompts you for specific disks in their proper order.

## The Tests

I tested Backrest on a Model 4 equipped with double-sided 40-track drives and a 10-megabyte hard drive. For comparison, I also ran benchmark tests on three other hard drive back-up utilities: an interpreted Basic utility distributed by Radio Shack, a utility distributed by Micro-Systems Software with the DOSPLUS IV hard disk drivers, and a utility distributed with the DOSPLUS 3.5 hard disk drivers. I also tested the standard File Copy routines included with Model 4 TRSDOS, DOSPLUS IV, and DOSPLUS 3.5. I did the benchmarks for DOSPLUS 3.5 and related utilities on an LNW II running at 4 megahertz (MHz). I made all the other tests on a Model 4 running at 4 MHz. The results appear in Fig. 1.

The clear loser was the Radio Shack hard drive utility. It took almost 18 minutes to make a verified copy of a 344K file, compared with six and a half minutes for the TRSDOS 6.0 Copy function. For verified copying of large files, Backrest was the winner; it cut the back-up time on the 344K file to about three and one-half minutes. Verified copies of the 688K benchmark file took 37 minutes with the Radio Shack utility, 11 minutes with the DOSPLUS IV RCOPY utility, and just under seven minutes with Backrest.

For unverified copies of that same file, the results are different. The Radio Shack utility turned in a dismal 25-minute time, compared with just under four minutes for Backrest. However, DOSPLUS's RCOPY was fastest at just over two minutes.

## Conclusions

Whether you need a hard drive back-up utility depends on the way you use your hard drive. If it contains files small enough to fit on a single disk that you rarely modify or change, you may be able to get by without such a utility. For all others, Backrest is strongly recommended as insurance against possible digital disaster.

Both Backrest and RCOPY perform well. If you use DOSPLUS IV, the RCOPY utility comes with the hard disk drivers. If you run LDOS, TRSDOS 6.0/6.2, or DOSPLUS 3.5, you should strongly consider making Backrest part of your system. It could save you a lot of grief when a file becomes glitched or you have a serious system crash. ■

	File size	
	343.5K	688K
Model 4 (64K, 4MHz)	minutes:seconds	minutes:seconds
Backrest		
No verify	1:59	3:50
Verify on	3:36	6:52
Radio Shack HD utility		
No Verify	12:18	25:36
Verify on	17:57	37:08
DOSPLUS IV RCOPY		
No verify	0:56	2:06
Verify on	5:37	11:03
TRSDOS 6.0 Copy		
No verify	1:54	•
Verify on	6:32	•
DOSPLUS IV Copy		
No verify	1:12	•
Verify on	5:45	•
LNW-II (48K, 4MHz)		
DOSPLUS 3.5 Copy		
No Verify	2:08	•
Verify on	3:09	•
DOSPLUS 3.5 HCOPY		
No Verify	2:07	5:03
Verify on	6:44	13:32

Times are for copying only, and do not include time spent swapping disks for large files.

\*File exceeds capacity of DS/DD 40-track drives on the benchmarking systems; DOS COPY function could not be used.

Figure 1. Benchmark timing tests for copying from a hard drive to disks.



# SuperCross/XT & SuperCross/XT+

Easily transfer files from the TRS-80™  
to MS-DOS™ or CP/M™ and back!

**NOW SUPPORTS UP TO 170\* FORMATS!**

\*SUPERCROSS/XT+ version



**See the 4-STAR Review in the September '85 Issue of 80-MICRO!**  
**80-MICRO summed it up; "The value of this program far exceeds its price..."**  
**If you work with different computers, it's a must."**

\*Don't be confused by competitors that are really BASIC translators with very limited transfer capabilities!  
\*SuperCross/XT & SuperCross/XT+ are the MOST powerful disk format file-transfer utilities available today for the TRS-80!

**SuperCROSS/XT+** will allow you to COPY files back and forth between different operating systems. Up to 170 of them - including PC/MS-DOS 1.x, 2.x/3.x (single or double-sided), CP/M+, or CP/M 2.2 on your TRS-80™ Model 4/4P, III, or I/DD. You can do this with your existing hardware and **SuperCROSS/XT**, eliminating modems, cables, and terminal program transfers. **SuperCROSS/XT** runs as a /CMD file under your TRS-80 operating system. Data files, spreadsheet files, and text files can also be usefully moved between machines, like years of spreadsheet files, business letters, legal drafts, or medical records, for example. *Scriptit* & *SuperSCRIPT* files may be successfully transferred and re-used by saving in ASCII first.

**SuperCROSS/XT** runs as a /CMD file under your TRS-80 operating system (your TRS-80 does the work here) and will allow you to COPY files back and forth between different operating systems. You may also format a foreign disk in your TRS-80 and COPY files to it that can be read, for example, by a KAYPRO or an IBM™ PC™. Note that machine language programs, although transferable, will NOT run due to the difference in microprocessor chips used in the different machines.

**CNVBASIC/CMD**, available separately, will "prep" your BASIC program, making most of the syntax and spacing changes required (example: changes PRINT @ to LOCATE, adjusts spacing, and separates keywords) for converting Model I/III BASIC programs for use on GW-BASIC, CP/M BASIC, or Model 4 BASIC and finishes off by saving it in ASCII for you, ready to move over with **SuperCross**.

Data files, spreadsheet files, and text files can now be usefully moved between machines, like business letters, legal drafts, or medical records for example. This is where the power of **SuperCROSS/XT** really shines! If you use or have used Visicalc™ or Multiplan™ on the TRS-80, you can use the same files on other machines! These spreadsheet files are directly and easily convertible to 123™, Multiplan™, Visicalc/PC, or most other PC-based spreadsheets!! All your word processing files are useable as well on other machines, as long as you obtain a word processor for that machine, you can "SuperCROSS" the files over and load them right in! Of course, the combinations and possibilities are endless, and the flexibility is ALL there with **SuperCROSS/XT** or **SuperCROSS/XT+**!

Comments and letters on-file from users are unusually enthusiastic! **It WILL do what you think it will do, it's easy, and it WORKS GREAT!** User-oriented features include "tagging" files for multiple COPY's or KILL's to eliminate many unnecessary keystrokes!

## A few unsolicited customer comments from returned registration cards...

"Powerful & easy to use" - GFP, Chicago IL  
"A very handy product worth much more than the price." - KA, Port St. Lucie FL  
"Superb product!" - JF, Calgary Canada  
"Excellent product! Works as advertised." - GF, Boise ID  
"Really works well." - RK, Monmouth OR  
"Works! Rejoice! I can now talk to PC's!" - CN, Sanatoga PA  
"I love SuperCross! I love PowerSoft!!" - TAC, Gadsden AL  
"Excellent. No problems at all." - RH, Santo Domingo Dominican Republic  
"Super! It performs the task I needed done." - TT, Rockville MD  
"Fantastic! I transferred my files within 1 hour!" - PJS, Rolla MO  
"LOVE IT!" - Col. CDL, APO San Francisco CA  
"Doc is straightforward & understandable. Solves my problem." - DG, C.Chase, MD  
"Top Notch! Works for me." - DB, Lancaster PA  
"Great product as usual." - CL, Laurel MD  
"Will save 100's of hours! It'll protect my 4P from obsolescence." - RJ, Denver CO  
"Outstanding!" - GA, Hawthorne CA  
"Program works very well. I like it!" - MDM, Rochester, NY  
"Superb. Easy to understand documentation." - RES, St. Louis, MO

Easy to use: ★★★★★  
Good docs: ★★★★★  
Bug free: ★★★★★  
Does the job: ★★★★★

\*SuperCROSS/XT may be ordered through Tandy Third Party Products  
• Catalog #90-0299 - Model I  
• Catalog #90-0300 - Mod III (mode)  
• Catalog #90-0301 - Model 4, 4P, 4D  
\*CNVBASIC, Plus version, & Combo Sets NOT available through Radio Shack.

**\*Some of the DOS Formats Supported:** PC/MS-DOS variations include 1.x, 2.x/3.x single or double-sided (IBM and most compatibles), and Tandy 2000. CP/M variations include most well known single and double-sided formats including CP/M 3.0+, Montezuma Micro 2.2 (all versions), Holmes and up to 160 others including: ALTOS, CROMEMCO, DEC, EAGLE, EPSON, HP 125, CP/M 86, KAYPRO, LN-W-80, MAX-80, MORROW, NEC, OSBORNE, OTRONA, SANYO, SUPERBRAIN, TELETEK, TELEVIDEO, TRS-80 LIFEBOAT/I, OMIKRONI, HOLMES/3, HURRICANE COMPACT/3, SHUFFLE BOARD/3, XEROX, ZENITH-HEATH, AND 8" SS CPM. If your main interest is going from the TRS-80 to PC/MS-DOS, you do not need the PLUS version. Our **SuperCross/XT** will handle your job just fine (IBM PC, TANDY1000, 1200, 2000, and other PC compatibles). See FORMAT LIST on next page for complete list of computers and DOS-types supported.

**Important! Please specify Mod I/DD, III, 4/4P, or Max-80 computer type required!**

SuperCross/XT (70 disk formats)	99.95
CNVBASIC/CMD alone	29.95
*BOTH! • COMBO Special!	119.95
SuperCross/XT+ (170 disk formats)	129.95
*BOTH! • SuperCross/XT+ with CNVBASIC Combo Special!	149.95
Upgrade your SuperCross/XT to SuperCross/XT+ (You must send us your MASTER disk for update)	35.00

## SUPERCROSS/XT and SUPERCROSS/XT-PLUS

SuperCROSS/XT supports approximately 70 formats • SuperCROSS/XT-Plus supports approximately 170 formats

The formats below that do not have any marking next to them are included with either package. The SuperCROSS/XT-Plus package ALSO includes formats marked with a plus sign (+). Formats marked with a # are included with the MAX-80 XT version of Supercross/XT, those marked with a minus sign (-) are not.

Note: SS = single sided, DS = double sided, SD = single density, DD = double density, 35, 40, 80 etc. = number of tracks.

\*\* Model I users need a doubler for DD formats. All users need double-sided drives for reading/writing DS formats. (Use SS for transferring). You need 96 TPI drives for 80 track formats. The 8 inch format needs an 8 inch drive and supporting hardware.

### IBM PC™ (PC-DOS™, MS-DOS™) formats:

Format Type	Sides	Dens	Tracks	Sectors	Bytes
PC/MS-DOS 1.0	SS	DD	40	8	512
PC/MS-DOS 2.x/3.x	SS	DD	40	9	512
PC/MS-DOS 1.1	DS	DD	40	8	512
PC/MS-DOS 2.x/3.x	DS	DD	40	9	512
PC Burroughs	DS	DD	80	10	512 +
PC DEC Rainbow	SS	DD	80	10	512 +
PC IBM 5550 Japan	DS	DD	80	8	512 +
PC Jformat t	SS	DD	40	10	512 +
PC Jformat tt	SS	DD	40	10	512 +
PC Jformat b	SS	DD	40	5	1024 +
PC Jformat e	SS	DD	40	10	512 +
PC Jformat et	SS	DD	40	10	512 +
PC Jformat f	SS	DD	40	10	512 +
PC Jformat q	DS	DD	80	8	512 +
PC Jformat o	DS	DD	80	9	512 +
PC Jformat r	DS	DD	80	10	512 +
PC Jformat rt	DS	DD	80	10	512 +
PC Jformat n	DS	DD	80	5	1024 +
Tandy 2000	DS	DD	80	9	512
Televideo 1603	DS	DD	80	9	512 +

### CP/M™ formats:

Aardvark	SS	DD	40	10	512
Access Matrix	SS	DD	40	9	512
Access II	DS	DD	40	9	512
Action Descy 500	DS	DD	80	8	512 +
Altertext	SS	DD	40	18	256 +
Altos	DS	DD	80	9	512
Ampro Little Board	SS	DD	40	10	512
Ampro Little Board	DS	DD	40	10	512 +
ATR 8000	SS	DD	40	10	512
Avatar	SS	DD	40	10	512 +
Avatar TC10	DS	DD	40	10	512 +
Avatar	DS	DD	80	10	512 +
Beehive Topper	DS	DD	40	10	512 +
Casio FP 1000	DS	DD	40	16	256 +
CCS	SS	DD	35	5	1024
Chameleon	DS	DD	40	8	512 +
Cifar 2683	DS	DD	40	10	512 +
Columbia MPC	DS	DD	40	8	512 +
Cromemco CDOS	SS	DD	40	10	512 +
Cromemco CDOS	DS	DD	40	10	512 +
Cromemco Z-2	SS	SD	40	18	128
Cromemco Z-2	SS	DD	40	10	512
Cromemco	DS	DD	40	10	512
Davidge	DS	DD	40	5	1024 +
Digilog	DS	DD	35	5	1024 +
DEC VT180 Robin	SS	DD	40	9	512
DEC Rainbow	SS	DD	80	10	512
Eagle	SS	DD	80	5	1024
Epson	DS	DD	40	16	256
Epson Multifont	DS	DD	40	16	256 +
Epson QX10	DS	DD	40	10	512
Florida Graphics	DS	DD	80	16	256
Fujitsu 16 S	DS	DD	40	8	512 +
Gemini	DS	DD	80	10	512 +
Genie III	DS	DD	80	18	256 +
Group III	DS	DD	40	4	1024 +
HP 125	DS	DD	40	16	256
IBM PC CP/M186	SS	DD	40	8	512
IBM PC CP/M186	DS	DD	40	8	512 +
Idea Bilex	SS	DD	40	16	256 +
IMS 5000 Turbo	DS	DD	80	5	1024 +
Inlight IQ 120	SS	DD	40	16	256 +
ISM	DS	DD	40	10	512 +
ITT 3030	DS	DD	70	16	256 +
Keypro II	SS	DD	40	10	512
Keypro 4 & 10	DS	DD	40	10	512
LNW80/Team	SS	DD	40	18	256
LNW80/Team	DS	DD	40	18	256 +
Lobo Max-80	SS	DD	35	18	256 + #
Lobo Max-80	DS	DD	40	18	256
Lobo Max-80	DS	DD	40	18	256 + #
Lobo Max-80	DS	DD	80	18	256 + #
Lobo Max-80 CP/M 3	SS	DD	40	10	512
Lobo Max-80 CP/M 3	DS	DD	40	10	512 + #
Lobo Max-80 CP/M 3	DS	DD	80	10	512 +
Micral 9050	DS	DD	40	16	256 +
MicroBee	DS	DD	40	10	512 +
Molecular 9000	DS	DD	40	9	512 +
Monroe 2000	DS	DD	80	8	512 +
Morrow uDecision	SS	DD	40	5	1024
Morrow MD3 MD11	DS	DD	40	5	1024
NCR Decision Mate	DS	DD	40	8	512 +
NEC PC-8001	SS	DD	40	16	256
NEC PC-8801	DS	DD	40	16	256 +
Neima Persona	SS	DD	40	9	512 +
Northern Tel 803	DS	DD	80	10	512 +
Novel	DS	DD	35	16	256 +

Format Type	Sides	Dens	Tracks	Sectors	Bytes
Octopus	DS	DD	40	5	1024 +
Octopus	DS	DD	80	5	1024 +
Olympia ETX II	SS	DD	40	9	512 +
Olympia EX 100	DS	DD	40	9	512 +
OKI IF800 Lboat	DS	DD	40	10	512 +
Osborne-I	SS	SD	40	10	256
Osborne-I/ Exec.	SS	DD	40	5	1024
Osmosis	SS	DD	40	10	512 +
OSM Zeus	SS	DD	40	8	512 +
OSM Zeus 2/3/4	DS	DD	80	8	512 +
Otrona	DS	DD	40	10	512
Pied Piper	DS	DD	80	10	512 +
PMC-101 CP/M 3.0	SS	DD	40	5	1024 +
PMC-101 CP/M 3.0	DS	DD	40	5	1024 +
Reynolds TC1000	SS	DD	40	5	1024 +
Sanyo 1000	DS	DD	40	16	256
Sanyo 2000	SS	DD	80	16	256
Sanyo 1250	DS	DD	80	16	256
SD Computers	SS	SD	40	18	128
Sharp YX3200	DS	DD	40	16	256 +
Superbrain	SS	DD	35	10	512
Superbrain D	DS	DD	35	10	512
Systel II	SS	DD	40	9	512 +
Systel IV	DS	DD	40	9	512 +
Teletex Systm Mstr	SS	SD	35	18	128
Teletex Systm Mstr	SS	DD	35	18	256
Teletex	SS	DD	40	18	256 +
Teletex Systm Mstr	DS	DD	35	18	256
Televideo 802	SS	DD	40	18	256
Televideo 802-6	DS	DD	40	18	256
Televideo 1603	DS	DD	80	9	512
Televideo Turbo	DS	DD	40	5	1024 +
Texas Instruments	SS	DD	40	8	512 +
Toshiba 100/200	DS	DD	35	16	256 +

### TRS-80™ Model I CP/M™ formats:

Lifeboat CP/M 1.4	SS	SD	40	18	128
FEC	SS	SD	40	18	128
FEC	SS	DD	40	18	256
Omikron	SS	SD	40	18	128
Omikron	SS	SD	80	18	128 +
Omikron	SS	DD	40	28	128
Omikron	SS	DD	80	28	128 +

### TRS-80™ Model III CP/M™ formats:

Holmes VID-80	SS	DD	40	10	512
Holmes VID-80	DS	DD	40	10	512 +
Hurricane Compactor	SS	DD	40	5	1024
MM Shuffle Board	SS	DD	40	10	512
Omikron	SS	DD	40	5	1024

### TRS-80™ Model 4 CP/M™ formats:

Montezuma Micro CP/M 2.2:					
1.30	SS	DD	40	18	256
1.30	DS	DD	40	18	256
1.32	SS	DD	40	18	256 +
1.32 (the odd one)	DS	DD	40	18	256 -
1.4x	SS	DD	40	18	256
1.4x	DS	DD	40	18	256
2.2x system disk	SS	DD	40	18	256
2.2x system disk	DS	DD	40	18	256
2.2x system disk	SS	DD	80	18	256 -
2.2x system disk	DS	DD	80	18	256 -
2.2x data disk	SS	DD	40	10	512 -
2.2x data disk	DS	DD	40	10	512 -
2.2x data disk	SS	DD	80	10	512 -
2.2x data disk	DS	DD	80	10	512 -
Radio Shack 3.0+	SS	DD	40	8	512
Wang MAWS	DS	DD	40	16	256 +
Xerox 820-II	SS	DD	40	18	128
Xerox 820-II	SS	DD	40	17	256
Xerox 820-II	DS	SD	40	18	128
Xerox 820-II	DS	DD	40	17	256
XOR-100	SS	DD	40	10	512 +
XOR-100	DS	DD	80	10	512 +
Zenith-Heath H89	SS	SD	40	10	256
Zenith-Heath H89	SS	DD	40	16	256
Zenith-Heath H89	DS	DD	40	16	256
Zenith-Heath H89	DS	DD	80	16	256
Zenith-Heath Z90	SS	DD	40	16	256
Zenith Magnolia	SS	DD	40	9	512 +
Zenith Magnolia	SS	DD	80	9	512 +
Zenith Z100	SS	DD	40	8	512
Zenith Z100	DS	DD	40	8	512
Zenith Z100 alt.	DS	DD	40	8	512
Zorba	DS	DD	40	10	512
Zorba Z2000	DS	DD	40	5	1024
Zorba Q	DS	DD	80	10	512
Zorba Z2000Q	DS	DD	80	5	1024
8 inch CP/M std.	SS	SD	77	26	128



# Super Utility™ for PC/MS-DOS™

A powerful new *file recovery* and disk media set of tools for floppies, internal fixed hard drive, Bernoulli Box™ (TANDY Disk Cartridge System), and many external fixed and cartridge devices.

For IBM PC™, XT™, AT™ and *many other* PC compatibles, including Compaq (all models), AT&T 6300, Leading Edge, and TANDY 1000, 1200, 2000.



PC/MS-DOS users... your wait is over for a *GREAT* new disk utility! Accidental deletions and disk directory problems *can happen to anyone at anytime...* a power spike, fingerprint, speck of dust, hardware problem, or simply typing DEL \*.\* in the wrong sub-directory can destroy critical data in a moment *without warning*. It's gone. Therefore we introduce **Super Utility** for the PC - an easy to use disk utility containing many functions sorely needed in today's PC/MS-DOS computing environment. Easy to learn. Easy to get used to. It's there when you need it. Like insurance.

With **SU/PC** you can **restore damaged or deleted files** using two different methods (one easy, the other a little tougher). Even clusters of an erased file assigned to another file can still be restored, unless the user has physically written over every byte of the original data (especially useful in word processing files).

In addition to file repair and recovery, **Super Utility** provides sector verify, sector editing, modification of sectors in Hex or ASCII, ease of renaming of files and setting their attributes, string search, copying sectors to a file, diagnostic sector checking, mapping of the FAT table of a file or an entire drive, visual graphics pertaining to your system, and full directory and sub-directory editing without endless menu-hopping - all in one program. The sector display mode displays all 512 bytes on-screen at one time and allows you to fully explore your disks. SEARCH and CHANGE are nice here! Compatible with DOS versions 2.0 - 3.1 on most systems. Some computers may require the use of PC-DOS. Color, composite, or monochrome video are supported. A great tool for fixed disk users as well as floppy. Also compatible with IOMEGA's Bernoulli Box™ storage device (soon to be distributed by Tandy). Easily the most **POWERFUL** PC/MS-DOS disk utility available today. Please do not confuse the MS-DOS version of **Super Utility** with the TRS-80 version. **Super Utility for MS-DOS is NOT SU+ from the TRS-80™ "ported over"**. That is impossible. **SU/PC** is a totally new program that fills the gaps that PC users have most need of and have asked us for. It's aimed at the beginner, the "office user", hobbyists, students of the PC, and programmers alike. Does *not* backup protected disks. See **COPY II PC** description for a program that will do that - *plus allow you to run protected software from your hard disk!*

***So, why not be certain about the safety of your data (and your peace of mind) when you can have Super Utility/PC right on hand at an unusually low price? Make your new computing life easier, more fun, and knowledgeable all at the same time. Super Utility/PC is easy to use, unprotected, and great insurance against disaster!***

• **Introductory Offer •**  
**only \$89.95**

Requirements: IBM PC or compatible running PC/MS-DOS 2.x-3.x, min. 128K memory, and at least one disk drive. PC-DOS may be required for use. IBM, PC, XT, and AT are registered trademarks of International Business Machines Corp. MS is a registered trademark of Microsoft.

• ***Super Utility/PC may be ordered at Radio Shack™. Use Tandy Third Party Catalog #90-0407 •***



# BACKUP YOUR PROTECTED PC™ SOFTWARE with COPY II PC™

THE backup insurance you need to protect your software investment, COPY II PC makes a floppy backup of most popular, protected PC software quickly and easily. MOST commercial PC programs these days use some sort of protection scheme or another (as you probably already know). COPY II PC allows you to buy software with more ease and confidence, knowing that most likely you'll be able to make backups and even run from your hard drive.

## also RUN PROTECTED PC™ SOFTWARE FROM YOUR HARD DISK without inserting the "key-disk"

COPY II PC makes using your hard disk as convenient as it was designed to be! No longer will you need to use a key disk on most software, but can run directly from your hard disk with *NOKEY*, included with COPY II PC! Insert NOKEY in your BATCH file for fast, easy, automatic execution of your "protected" applications.

\*\*\*\*\*

***IMPORTANT! THIS PRODUCT IS PROVIDED FOR THE SOLE PURPOSE OF ENABLING YOU TO MAKE ARCHIVAL COPIES OF YOUR PURCHASED SOFTWARE ONLY. PLEASE RESPECT THE COPYRIGHT LAWS.***

\*\*\*\*\*

Minimum requirements: IBM™ PC™, XT™, AT™, or other "real" compatibles including TANDY 1000 (memory board required\*), TANDY 1200, Leading Edge, AT&T 6300, Compaq, etc. One or two disk drives and at least 64K required on most machines. \*\* TANDY 1000 requires memory board because of needed DMA chip that resides there.

***only \$39.95  
for both programs  
on disk with complete instructions***

*Published by: Central Point Software, Inc.*



# PowerMail Plus

"This is one of the BEST mail-list programs we've seen for the TRS-80, and for its price, it's a down-right bargain."  
*"INFOWORLD"*

**Rated FOUR STARS in the May 1984 80-Micro!**  
 Also selected as a 1st Place Winner in  
 80-MICRO's READERS CHOICE AWARDS\*

\*Jan. '84 issue

**New low price too!**

• *INFOWORLD's Essential Guide To The TRS-80* said...

*"If you need to maintain large mailing data-bases, you should definitely consider PowerMail Plus... It is exceptionally fast. The program is intrinsically efficient... overall concept and design are excellent. PowerMail Plus offers the kind of features that businesses, in particular, need."*

• *80-MICRO* said in their May '84 issue,

*"If you're looking for a mailing-list system, I highly recommend PowerSoft's PowerMail Plus. (The) manual is high in quality, content, and workmanship. The commands were easy to use and remember."*

• *OMNI's Complete Catalog of Computer Software* wrote...

*"This is a very potent mailing-list program with many versatile features. ...It lives up to (PowerSoft's) normal high-standards... It's an excellent mailing list program."*

PowerMAIL Plus is a highly acclaimed, deluxe mailing/data storage system written entirely in machine language for maximum operating speed. Besides being a mailing system, it is also capable of generating custom personalized "form letters" to whatever groupings of labels you wish using the TEXT-MERGE module, available separately. Many of its features, such as extensive data "flags" enable you to use it as a limited data-base manager, too. PowerMAIL+ is a "DISK-BASED" system, rather than "RAM-BASED", therefore it can keep track of over 520,000 individual entries by combining up to eight different mailing lists (which, of course would require a hard drive). There are no "slow" periods when PowerMAIL+ is running. Features have been added to this program that others have *always* lacked. You now have the ability to keep track of mailings using 24 user defined "flags" that are incorporated into the PowerMAIL+ program. Separate any category in any manner you wish. PowerMail+ can use multiple floppies by logging them in and out of the system. The program will run in as little as a 32K one drive environment, but dual drives or 80 track or double-sided drives, or a hard drive are recommended for more serious use. The more available freespace, the more names you can store. A 40 track double density, single sided data disk will hold about 1150 names. Double that for 80 track or 40 track double-sided. Works great on hard drives as well as floppies! Handles drives 0-7. We have been using it on our hard drive system for almost four years now with excellent results! Does not pre-allocate the entire drive, but allows you to define how many records you need at initialization time. If you need more room later, there is a way get your names onto a LARGER file easily. Also you may have a file on each disk or platter, if you have multiple drives, or a hard drive. This further increases overall storage, as PowerMAIL+ will treat the files individually, or as an overall total. **TWELVE LEVEL SORT!** The program will sort up to TWELVE levels that you wish in *any order*. Other features include the ability to separate your flags and put them onto another file, merge files together and then separate whatever you want, improved "key" search, improved field lengths, improved disk I/O, and much improved print routines. The main thing here is that we designed PowerMAIL+ to be easy to use, easy to start up, and easy to train people to enter your names.

With PowerMAIL+, you have many print options based on Labels or Lists. If you choose labels, you have a choice of two modes and are asked how many labels across and the spacing required. The default settings are for the standard one-up label commonly available (you may choose up to 4 across). If you choose listings, you have four choices to choose from there. If printing a LIST rather than LABELS, a user-definable "header" will be printed, along with the page number. This really makes an impressive printout, as well as adds to the usefulness. All that is required on your part is a 3-ring binder to put it in!

PowerMAIL Plus' print system can be controlled from flag settings, allowing you to print only a part of the file. You may keep lists within lists. No need to keep separate files for different classifications. Use the flag or DATA fields for separating them for printout. There is a lot of flexibility here! In addition, you can tell it to SET FLAGS after printing to designate WHO got a label, etc. This will contribute tremendously to the efficiency of your mass mailings, because for the first time you can keep track of who has been sent a particular mailing. Avoid duplicate mailings with ease! Let PowerMAIL Plus do it for you!

PowerMAIL Plus also incorporates a very fast search mode for locating a particular entry in the shortest possible time (supports wild cards too), as well as a sort-merge routine which allows you to sort files larger than can fit into memory. Best of all, PowerMAIL Plus includes routines which will convert files created by some of the other popular mailing list systems to its own internal format, so you don't waste any time retyping.

## PowerMail Plus

★★★★

PowerSoft  
 17060 Dallas Parkway  
 Suite 114  
 Dallas, Texas 75248  
 Model 4  
 (Model I/III and II/12-16  
 versions also available)  
 \$150

Easy to use? ★★★★★  
 Good docs? ★★★★★  
 Bug free? ★★★★★  
 Does the job? ★★★★★

## Converts data files from these mail systems:

Radio Shack™ MailList Expanded  
 Radio Shack™ MailList Compressed  
 Special Delivery  
 Extra Special Delivery

POSTMAN  
 PowerMAIL 1.0  
 Galactic Mailfile

**\*New low price!**  
**Save \$50 over last catalog!**

**\$ 99.95 complete with documentation.**  
**\$129.95 If combined with TEXT-MERGE!**

versions: Model VIII/MAX-80, Model 4/4P, or Model IV/12.

**Please Specify which computer!**

## Text-Merge

**ONLY \$39.95** If purchased separately!  
*(was \$50 in our previous catalog)*  
**or \$30.00** If purchased at same time as PowerMail!

comments: works only with PowerMAIL Plus data files.

*\*Word processor, editor, or BUILD required for form letter preparation.*

TEXT-MERGE is a stand-alone form letter utility for PowerMAIL Plus. It will take a form letter prepared in ASCII format by any word processor and merge the contents of a PowerMAIL Plus ADDER file into the letter. The form letter may be as long as available memory (usually about 32K) or as short as a few lines. TEXT-MERGE is ideal for creating personalized mailings or specially-formatted mailing labels. You use PowerMAIL Plus' flag system to separate those records for which you want form letters printed into an ADDER file, then simply run TEXT-MERGE.

Prompts allow you to specify such parameters as page size, number of printed lines per page, line length, left margin, whether or not linefeeds follow carriage returns, and whether or not you want to pause after each page. During printing a count of letters printed is displayed on the screen.

Since TEXT-MERGE accepts all ASCII codes from 0 to 255 as valid data, you can create special print effects by embedding printer control codes in your form letter text, if you have a word processor which will permit this.

Fields from the PowerMAIL Plus record are inserted into the form letter at places marked by @n, where n is a digit from 0 to 9, which correspond to the record fields. Field data may be inserted in any order, and each field may appear as many times as necessary.

### Here is how you might start out a form letter:

Mr. @2 @1  
 @3  
 @4 @5  
 @6, @7 @8  
 Dear Mr. @1,

### Here is what the resulting printout would look like:

Mr. Robert Jones  
 ABC Paper Co.  
 1632 North St. Suite 101  
 Ft. Worth, TX 76751  
 Dear Mr. Jones,

versions: Model VIII/MAX-80, Model 4/4P, or Model IV/12.  
**Please Specify which computer!**

# ST80-III™ Smart Terminal, Host, and Personal BBS Communication System for TRS-80™



by: Lance Micklus

**Old-Timer Dept.-** What ever happened to Lance Micklus? Oh yeah... you old-timers probably just had a brain cell jogged into recognition. Lance was a columnist for *SOFTSIDE* (remember that magazine?), wrote several once-popular games and utilities and was also *THE MASTER* of tele-communications and the author of the *ST80-III Smart Term* package (and many other once famous programs) that many of you may have heard of, owned, "borrowed", etc. Well, Lance is back and he's represented by PowerSOFT this time! To get things rolling, we're offering his **ST80-III v.3.5 Smart Term** program (formerly \$150), his **X-10 HOST** package (allows you to leave your computer "on-line" securely with full password protection, etc. (formerly \$50), & Lance's **Personal Bulletin Board System** (formerly \$40) all together now in one package for the *special price of only \$69.95!* You save almost \$200! If you have a modem (especially a Hayes or other auto-answer modems) and don't have good software, then this is the one to get! Now all three sets of doc and programs are packaged in one binder! Now get EVERYTHING, in the way of telcom software, for your computer at one low price!

## ST80-III™ Smart Terminal Program

Designed for the hobbyist and for the commercial user as well, ST80-III is the standard of excellence by which all other terminal programs compared themselves. ST80-III is one of the most reliable terminal program you will find anywhere in terms of performance and accuracy. It will work with any ASCII system, whether it be FORUM-80™ or IBM™ 370. It is the only general purpose terminal program written for the TRS-80™ that is approved for use with the Western Union Mailgram™ service. Works great with CompuServe™, SOURCE™, and DELPHI™. It requires only a single disk drive and 32k of memory.

Prompted wait and Veriprompt™ are included here for total control over the input to the host. From the keyboard you can select full or half duplex operation with all of the RS232 options, including nulls and auto linefeeds. You can even have ST80-III automatically transmit linefeeds after each <RETURN> character. To save you hours of grief, ST80-III even performs an RS232 test to make sure the hardware is working properly before going online. FEEDBACK lets you send back incoming data to the host. The memory buffer allows you to APPEND incoming data to previously stored information. It also keeps a running checksum which is displayed each time the buffer is closed. Along with the checksum is a display letting you know how much memory is left in the buffer. Besides the normal SCROLL method of video display, there is also PAGE and FORMAT methods of display which can be controlled by direct keyboard entry or by the host. Direct cursor addressing, video and printer on-off control codes, WHAT-R-U, serial polling, DOS commands from within ST80-III, device independent I/O, and extended ST80-III utility programs are all included. Data files can be scrambled for security prior to transmission. The advanced auto-logon supports built-in pause characters and control characters. A built in HELP function simplifies use.

## ST80-X10™ Host Program

(allows you to leave your computer on-line)

There are many programs on the market which call themselves host programs. Most aren't very practical and none offer the features of ST80-X10. If your need is to be able to dial up your computer by telephone so it can be operated safely from a remote location, ST80-X10 is the solution to your problem.

This host is easy to use because it was designed to make most any regular application program work via a telephone line. It

automatically converts all TRS-80™ control codes to ST80-III control codes. So what's on the screen is also on the remote terminal. All PRINT @'s are converted to **direct cursor addressing** codes. No PEEK and POKE commands are used. When the phone is hung up, ST80-X10 automatically restarts your application program. Program development is easy to do off line because ST80-X10 shows you on the screen exactly what the remote terminal will see. ST80-X10 is designed to work with all ST80 terminal programs with direct cursor addressing. If the remote terminal is an older version of ST80 or is another type of terminal, a dumb terminal mode is provided.

Your applications programs **MUST** use the standard TRS-80™ ROM calls, and can not use graphics or video POKE's. Just about all BASIC, FORTRAN, COBOL and many machine language programs can be used with ST80-X10. The user should have a good grasp of programming techniques to use the system to its fullest advantage, especially when the application program will be for access by the public. For private use, little or no modification to your application programs will be necessary. ST80-X10 works with all *Hayes compatible* auto answer modems including those with switchable port addresses.

## ST80-PBB™ (Personal Bulletin Board)

A computer should never be shut off. Computers are designed to work. If they lay idle for too long, their memory cells get rusty and fungus will start to grow on the screen. Keep your computer busy all of the time by letting it fill those idle moments as a personal bulletin board system. Great for old Model I's or III's that have been replaced!! Put those guys to work!

ST80-PBB™ is a small, simple, but amazingly powerful bulletin board for the individual who would like to leave his/her computer on line to gather and leave electronic mail with friends: It maintains its message data base in memory for fast response, thus avoiding the problem of scanning the disks. It runs with Disk BASIC and can be compiled with Microsoft's BASCOM. It supports four levels of access - Guest, Member, Owner and Operator - Using a password system for privileges. A user log and four message types are also included. An ST80-PBB advanced feature is the smart reverse scan for viewing messages. This is a reverse scan where the messages are seen starting with the most recent to the oldest. However, messages are viewed in the order in which they were entered so that multiple messages are in the proper sequence. All of this is tied in with a very efficient memory organization which makes the maximum use of available memory. For example: A 32k configuration will hold from 25-30 messages, depending on their length. 48k will hold more, of course. The message data base is automatically maintained without operator intervention. The only maintenance required is a backup save to disk. If saved to disk, a text editor can then be used to modify the data base.

To use the program, you must have an auto-answer modem and the ST80-X10 host program. ST80-PBB is written in BASIC. Some other minor modifications must be made before putting the program online - such as changing the passwords. The program includes comments for easy reading. To expand the size of the message data base, these comments can be deleted, the spaces in the lines can be removed, and the non-applicable parts for the program can be taken out.

**All 3 packages now together**

**only \$69.95!**

**\*Please specify Model I or III/4**



# PowerScript 4.2

The state-of-the-art UNIVERSAL add-on enhancement for SCRIPSIT™!

Supports TRUE Model 4 - 80 column version of SCRIPSIT™.

Supports ALL released versions of SCRIPSIT™ for 4/III/I (except Network).

See the 4+ Star review  
in the July '85 issue of 80-MICRO!

## PowerScript



OMNI'S CATALOG OF COMPUTER SOFTWARE said...  
"...worked without problems...Well worth it's price."

### SOME OF POWERSCRIPT 4.2'S FEATURES ARE:

- 1) The user can send commands to the printer to activate special formats and functions. These commands can even be embedded in the middle of a line of text.
- 2) Printer output can be PAUSED so that the user can insert text or change print heads.
- 3) PowerSCRIPT will not crash programs protected in hi mem.
- 4) "END" returns to DOS READY instead of rebooting.
- 5) On-line HELP is included! Also, the contents of the HELP file may be modified by the user for better understanding.
- 6) The user may ALPHABETICALLY list a disk directory from within PowerSCRIPT and Fetch, Chain, or Kill any file right from the display! No more going to DOS to see what you have or how much free space is left either! When your alphabetical DIRectory is displayed, you are also informed how much FREE SPACE is left.
- 7) Optionally select automatic line feed after carriage return.
- 8) Support for user-definable printer filters included.
- 9) PowerSCRIPT removes protection from SCRIPSIT™ so it can be COPYed for your own use.
- 10) Special default print control codes included for EPSON FX, MX, and Gemini printers. Control codes for other printers are user-definable.
- 11) The keyboard can be customized to suit your needs (a DVORAK layout is included as an installable option).
- 12) Special characters can be generated from the keyboard without having to use special printer codes!
- 13) Any other code in the range 0 through 255 can be sent to the printer through a special format line.
- 14) Multiple files can be CHAINED together at print time!
- 15) Video page Forward and Reverse with two key-strokes!

*and much, much, more!*

*Why in the world would we come out with a new modification for SCRIPSIT™ after all this time? We've been selling a SCRIPSIT modification for over 5 years now, with many satisfied customers. SuperSCRIPSIT™ is out and quite popular and versatile. Why would we do it?? For one reason - you asked for it! All these new features started out as requests by our current customers. It must have been worthwhile... 80-MICRO gave PowerScript 4.2 a FOUR+ STAR REVIEW!*

*What if you already own SCRIPSIT™ and don't want to pop another \$200 for another program but you're either bored with Scripsit or just wish it did a lot more? What if you really don't need another program, but you'd like a lot of new features without relearning a whole new system?*

PowerScript adds two general categories of additions to SCRIPSIT. Directory and File functions (DIR, FREE, KILL CHAIN, LINK etc.) and embedded printer control functions. With all the smarter printers out there, it doesn't make any sense to use a "dumb" word-processor anymore. If you notice, there are MANY word processors out there for the TRS-80™ besides the ones from Tandy. We could recommend every one of these, *IF YOU WANTED TO BUY SOMETHING NEW*. One of the problems, however, is that you need to learn all new commands. The second problem (probably the main one) is that you need to shell out a lot more money to buy it! PowerSCRIPT gives you many new features, while retaining the commands you already know - at a very low price! The beauty of all these new features is that you don't need to re-learn what you already know! Just learn the new ones that interest you! All your previous files will, of course, be fully compatible.

We have been selling this version of the program since January 1985 and the response has been *outstanding!* Our files are full of letters from people who CANNOT believe what this program turns little ole SCRIPSIT™ into! *It really works!*

Our PowerScript 4.2 program is extremely popular and works great, so there's been quite a few nice comments coming back on the registration cards and in letters. Here's a few of them...

*"Works exactly as advertised!" - GB, Baltimore MD*  
*"It's great! Makes Scripsit worth having." - GZ, St. Anthony ID*  
*"Wow! Who needs SuperScripsit? This program has solved all my Daisy Wheel incompatibility problems!" - TLD, Chillicothe OH*  
*"Installed right away - good doc & examples." - WNC, San F. CA*  
*"Excellent enhancement. I am impressed!" - DLP, Austin TX*  
*"WOW! Great versatility. I'm impressed." - DEP, Greentown IN*  
*"Love it! Easy to install too." - WL, Burlington VT*  
*"Superb." - DNS, Houma LA*  
*"Works great! Very nice features." - JDS, Tallahassee FL*  
*"Works fine. Big help!" - JJ, Portland OR*  
*"Very pleased!" - HJF, Monroe LA*  
*"Looks VERY good! Does what it says it will!" LMP, Windsor CT*  
*"Exactly the right upgrade to Scripsit!" - FJP, New York NY*  
*"Installed easily - works GREAT!" - GEL, Perrysburg OH*  
*"This program is GREAT!" - RFL, Kenosha WI*  
*"Very good program - 5 stars." - SRL, Metairie LA*

## Still only \$39.95!

**Machines supported:** Mod 4/4P, III or I (LCASE) or MAX-80 (at least 1 disk drive req.). All versions supplied on same disk.

**DOS's supported:** Works with LDOS, DOSPLUS, NEWDOS/80 or TRSDOS™ Mod I or III or *TRSDOS 6.x™ on the Model 4/4P. Ver. 6.2 is OK.* User MUST own or buy appropriate SCRIPSIT™ disk version. Will work with TRSDOS 2.7DD, except for DIR functions.



# Finally, it's here!

And it's affordable too...

It's the brand new

## REFERENCE MANUAL FOR SCRIPSIT™

For TRS-80™ Models I, III, and 4 versions of SCRIPSIT™!  
(THIS IS NOT FOR SUPERSCRIPSIT™)

Surely you have recognized the difficulty in locating answers to your questions about SCRIPSIT™ in Radio Shack™'s training manual or other manuals provided with the program. And where is the INDEX for the Model I or III versions? **NOWHERE!** There isn't one. Half of the information furnished in their training manual is on the audio tapes. Their training package was meant as a teaching tool - *not as a tool for future reference.*

The *REFERENCE MANUAL FOR SCRIPSIT™* was designed to supplement Tandy's manuals, but it is complete enough to stand alone. This will be a welcome relief to those whose original documentation has been lost or destroyed. As you know, Tandy does not sell replacement manuals. (*NOT intended to support pirated copies of the program!*) The book answers many of the hard to find items in the manual that you KNOW must be there, *but where is it??* The book contains easy to follow instructions on using the program to its fullest; documenting all its features. It also contains an extensive INDEX to the Mod I/III manual (Model 4 version already contains an INDEX.) The book is 8 1/2" X 11", bound and punched for insertion in your SCRIPSIT binder, if you wish.

**Retail price is only \$7.95! Buy this book WITH  
PowerScript 4.2 and you can have it for only \$5!**

\* \* \* \* \*

## The Programmer's Guide to TRSDOS 6.x

by Roy Soltoff, co-author of TRSDOS 6™ and LDOS  
**only \$15.00**

*The Programmer's Guide to TRSDOS/LDOS Version 6* is an indispensable "roadmap" to the inner workings of this new generation of disk operating systems for the TRS-80™ Model 4. Written for the assembly language programmer, the Guide shows how to take full advantage of the various features of the DOS in your own programming. The techniques of accessing the DOS are fully explained in this excellent 214-page volume. The Guide includes sections on Device I/O interfacing, Disk I/O interfacing, the DOS directory structure, techniques for disk

file access and control, use of the Supervisor Call system, techniques of writing relocatable filter and driver programs, and more. Every assembly language programmer working with TRSDOS/LDOS version 6 should have this book sitting beside his copy of the official TRSDOS 6 Technical Reference Manual. It is absolutely needed if you want to do assembly language programming on the Model 4. We learned PLENTY out of this book and recommend it highly! Not necessarily for beginners, except for those who want to learn how to program.

\* \* \* \* \*

## PRO-NTO

from MISOSYS

**Now - A "Sidekick" type program for Model 4!**

***Windows were once a feature only the MS-DOS machines boasted. Now with a 128K Model 4, 4D, or 4P you can take full advantage of windows!***

PRO-NTO or simply "Pronto" not only includes the necessary "TOOLS" to create your own windows, but also comes complete with 11 *very useful applications already written.* For example, Pronto boasts a superb address data base, formatted very much like POWERMAIL+ (very useful WITH PMAIL+ Mod 4 for sorting ADDER files, editing ADDER files, etc.). There is a simple terminal program that can be used in conjunction with the phone dialer, an index card data base for short notes. The remaining applications include a perpetual calendar, daily appointment check list, a screen saving utility, floating point calculator, reverse polish notation calculator, a complete TRS-80 ASCII character table showing the HEX and Decimal codes, and finally a typewriter emulation application. Each of the applications are fully documented in the 100 page manual.

Pronto will tuck any 4 applications you choose into one 32K RAM bank, all available at the touch of a key or two! As distributed Pronto is called upon by a CONTROL-P, this will bring up what could be called the core menu (very similar to calling up SIDEKICK on a PC). The core menu will have the four applications available via either a function key or its shifted equivalent. In addition to the 4 applications there are 2 unchangable functions. The F3 key will allow any off-line application to be called up and the <SHIFT> F3 will allow you to call a library command. Just think, now you have the option of calling up your directory from within your word processing program, return and not alter a thing! Or call up the calculator while in one of your accounting programs.

Included with PRO-NTO are several other programs, examples, application source files, utilities and even a HELP file similar to the DOS Help file to aid you while online with Pronto. To sort the data files created by some of the applications there's PSORT. If you wanted to run an application from a JCL file or DOS level once you've loaded Pronto, there's a file called PRUN. In addition programs are included that demonstrate access to windowing from BASIC as well as other languages.

Pronto requires a Model 4, 4D, 4P with 128k and TRSDOS 6.2  
**only \$59.95**

# PowerDraw

## A SCREEN GRAPHIC GENERATOR/COMPILER

Convert Screen Graphics to Program Lines easy and fast!

### 1st Place Winner for GRAPHICS!

\*80-MICRO's Readers' Choice Awards 1983



### New Low Price!! \$29.95

Was \$39.95 in our past catalogs.  
machine: TRS-80™ Model I, III, 4 (III), or MAX-80. 32K required; at least 1 disk.  
Works with most current I/III operating systems.  
*Not for use with TRSDOS™ 6.x.*

**T**his is one of the most *under-estimated* programs on the market, and possibly one of the best values out there as well. Especially if you are into writing your own software. And especially at this new lower price! PowerDRAW will literally save you hundreds of hours of time in creating exciting screen graphics which can be merged into your BASIC or machine language program quite easily. ***No previous knowledge of X,Y graphics is required at all!***

All you need to know is how to use the arrow keys, pretty much. Most of the popular TRS-80™ graphic game screens and "welcome screens" in most commercial software you see were created with PowerDraw. A built-in "HELP" command is there also, if you forget something and don't feel like looking it up.

PowerDRAW was first written for ourselves as an aid in creating machine language graphics and screens. As it developed we decided to turn it into something that *everyone could use.*

You can create screens of graphics, save to disk, merge them, run in sequence like a movie, merge text with graphics, and write your own game or business application screens! In the January 1984 issue of *80-MICRO*, the winners for 1983 were announced in their *READERS' CHOICE AWARDS*. In the Mod I/III graphics division, ***PowerDRAW came in FIRST, and PowerDOT II came in second! We know TRS-80 graphics!!***

PowerDRAW supports *SIX* different "SAVE FORMATS" so that your graphics may be saved to disk and recalled at a later time in the following popular formats:

- 0) *CONDENSED TOKENS* (PowerDRAW internal condensed format)
- 1) *EDAS Source file format* (EDAS™ from MISOSYS)
- 2) *EDTASM Source file format*
- 3) *BASIC data statements*
- 4) *BASIC strings*
- 5) *BASIC arrays*
- 6) *Load File Format* (graphics saved in /CMD file format)

Many more features too! Completely cursor controlled. PowerDRAW comes complete with PDRAW/CMD, as well as three other utilities for extending the use of PowerDraw and demonstrating its power. *Not protected.*

### Reviews of PowerDraw:

- *OMNI's COMPLETE CATALOG OF COMPUTER SOFTWARE* (Collier Books)...  
***"PowerDraw couldn't be much easier to use. In general... this is an excellent program."***
- *INFOWORLD'S ESSENTIAL GUIDE TO THE TRS-80* (Harper & Row) ...  
***"...PowerDraw is simple to operate and functions quickly and reliably." and "If intensive use of graphics is what you have in mind, then this program can save you hours of work. It performs its job quickly and is generally well thought out."***
- The review in the June 19, 1982 *INFOWORLD* ...  
***"If you have a TRS-80 and want an easy versatile way to create screen graphics then PowerDRAW may be the answer."***
- *80-US Journal* in the October 1982 issue...  
***"This is certainly one of the most useful utilities for a TRS-80 owner to own...The program works flawlessly..."***
- The review in the October 1982 issue of *80-MICRO* ...  
***"...overall performance is great; I recommend it to anyone interested in a screen editor."***

***If you are interested in graphics in any way you really should NOT pass up PowerDRAW, especially now at this new low price! All of our screen graphics at PowerSoft were created with it! You'll love it!***



# POWERDOT II

Hi-Res Graphic generator for TRS-80's  
and many popular bit-image printers

**Does NOT** require a hi-res board!

Was \$59.95 in Catalog #5. Now reduced to \$39.95  
(prepaid orders only)

**PowerDOT II** was a winner in 80-MICRO'S Readers' Choice Awards Model I/III GRAPHICS division (Jan. '84 issue). This unique program allows you to create **HIGH-RESOLUTION DOT GRAPHICS** on your bit-image printer using your computer's memory as a "drawing board". You use your terminal screen as a "window" into your drawing board, whose size is not limited by memory, but only by disk storage.

The DOT Editor contains numerous commands which make the creation of large graphics a snap and provides many aids to help you keep track of your drawings. The **AUTODRAW** facility will draw *lines* or *circles* from any point in the graphic buffer to any other point. Starting and ending points need not be on the screen at the same time! Adjustable aspect ratios for the circle routines! You can call up a readout of your position in memory at any time, relative to the start of your drawing. You can preset the width of your drawing, and even put explanatory header records into your disk files so you can keep track of them as they load! Design your own graphics characters, save them to disk and recall them with the touch of a single key! Several alphabet fonts are included as an example (and to use). Create "boilerplate" designs and call them in as required! Typing the letter "C" could pop up a special graphic version of "C" or it could pop up a symbol for a cabinet or a capacitor just as well (recalled from disk). Designs can be fonts, architect designs, cabinet styles or whatever you want. Save something to disk and recall it later in whatever part of your design you want (similar in concept to *cut and paste*, but due to memory limitations, disk storage is used). Graphics files can be concatenated to produce a single **LARGE** graphic. Text can be mixed with graphics easily for descriptions, measurements, etc. Your only restrictions are your imagination and disk space.

This program is a **MUST** for anyone who is seriously into computer graphics and wants to do them on a TRS-80. It is useful in many business applications as well as for personal enjoyment. **Remember, you do NOT need to purchase a high-res board to produce high-resolution graphics on your bit-image printer with PowerDOT!**

We have brought the price of this package **WAY** down to reach people who may have been waiting for a bargain! **PowerDOT II was \$59.95 in our last catalog. Add this onto your order now!**

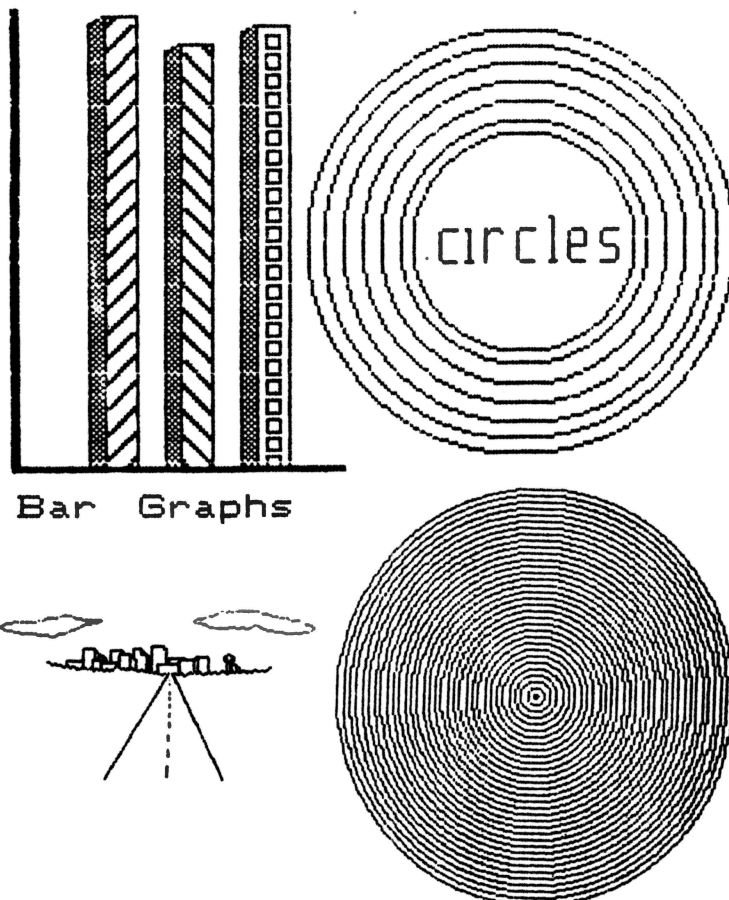
**Please specify printer type when ordering:**

- \* PowerDOT II/EPSON or "compatibles" including Gemini 10X
- \* PowerDOT II/ProWriter C.Itoh 8510 or equivalent
- \* PowerDOT II/Okidata Microline 92 or 93 (not 80, 81, 82)
- \* PowerDOT II/Radio Shack (includes drivers for DMP-2100, LP-8, DMP-200, 400, 420, 500, and CGP-220. May work on other Tandy bit-image printers including newer models.

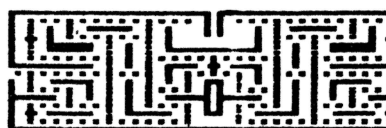
**machines:** Mod I/III, 4(III mode), LNW, Max80 • min. 1 disk drive.  
**comments:** works with all current I/III type operating systems.

**Now, PowerDOT II is only \$39.95!**  
complete with 60 page manual.

(all graphics on this page were created with PowerDOT II)



A B C D E F G  
H I J K L M N O  
P Q R S T U V  
W X Y Z





# PowerDriver

For use with SuperSCRIPSIT™ and *non-Tandy printers.*

*Now, use YOUR non-Radio Shack printer to its fullest capabilities with SuperSCRIPSIT™!*

*Model 4 now supported! New printers now supported!*

*THOUSANDS SOLD! EXTREMELY POPULAR!*

**Same low price! only \$29.95!**

\*Supports Model I, III, or 4(III) or Model 4 mode using Mod 4 SuperSCRIPSIT™. All versions on same disk.

Do you want to use SuperSCRIPSIT™, the popular word processor from Radio Shack™, but you don't have a Radio Shack printer? SuperSCRIPSIT is one of the largest selling word processing programs out there, but unfortunately it was designed to **ONLY WORK WITH RADIO SHACK PRINTERS!** Tandy ignored the top three selling printer lines in the world! The PowerDriver series of printer drivers allows the full use of MANY popular printers to their fullest capability, from within SuperSCRIPSIT! Underline, bold-face, super-script, sub-script, italicize and more! (To the limits of your printer, of course).

The beauty about our PowerDrivers is that **you don't have to learn any new commands**; like for underlining, changing print size, super-scripting, etc. You use SuperSCRIPSIT exactly the way the manual shows! Our driver take the codes sent from SuperSCRIPSIT and "translates" them into the control codes that YOUR printer is looking for! It really works great and is very simple to install onto your disk. We have sold thousands to happy customers! Model 4 drivers are now included on the same disk **AT NO EXTRA COST.** (Model 4 version of SuperSCRIPSIT is required, of course.)

Another recent development and problem that has popped up is that Tandy is switching over all their printers to what they call "PC compatible". What this means is that SuperSCRIPSIT won't even work with many of their new printers! (which are considered companion items to the Model 1000/1200/2000 computers; PC's). It seems that Okidata and C.Itoh are also joining the PC compatible printer band-wagon as well. This is good, because finally there might be some standardization in printer codes.

**We do have a driver for use with "PC compatible" printers and SuperSCRIPSIT.** Order our PowerDriver/E, which contains several drivers for the MX series of printers from EPSON. Among these included drivers, one of them will work properly on "PC" compatible printers (which really means EPSON).

**Printer type *MUST* be specified when ordering.**

- PowerDriver/E
- PowerDriver/EF
- PowerDriver/O
- PowerDriver/P
- PowerDriver/F
- PowerDriver/A

**PowerDriver/E** is for the popular EPSON MX series of printers. GRAFTRAX™ or GRAFTRAX+™ ROMs are required. It contains 3 drivers in the package that each support 4 pitch sizes. Provides underlining, *italics*, double-strike, over-strike, emphasized, subscript, superscript, and pause. PowerDriver/E also works with the Star-Micronics Gemini printers and many other "Epson compatible" and "PC-compatible" printers. If you think your printer is EPSON or PC compatible, but aren't sure... call us and see if we can help you.

**PowerDriver/EF** is for the newer EPSON FX-80, LX-80, and RX-80 printers (also the FX/RX-100). It supports 7 pitch sizes (including Epson's pseudo-proportional) and super/subscripting by carriage motion.

**PowerDriver/O** is a driver for the Okidata Microline 92 and 93 printers. It will employ "correspondence quality" mode where possible, and supports all available pitch sizes on the printer along with underlining, boldface, superscripting and subscripting. If your Okidata uses "Plug and Play" ROMs or states it is "PC" compatible, order our PowerDriver/E package rather than this one. Your printer is IBM/Epson compatible, *not* Okidata.

**PowerDriver/P**, for the PROWRITER 8510 dot matrix printer supports 8 pitch sizes, including two sizes of proportional print. For word processing, PowerDriver/P supports underlining, boldface, superscript, subscript, overstrike, top of form return, and pause printing. The GREEK character set is also FULLY supported as well!

**PowerDriver/F**, for the STARWRITER F-10 Daisy Wheel printer, supports 10 pitch, 12 pitch, and proportional modes. Allows full use of the printer including superscripts, subscripts, underlining, double-underlining.

**PowerDriver/A**, for the C. Itoh A10-20P daisy wheel printer, supports 10 pitch, 12 pitch and PS wheels, and allows full use of this new letter-quality printer. All SuperSCRIPSIT codes except for double-underlining are supported fully.

***only \$29.95 each***



# PowerSoft Policies

*Please read!*

**ORDERS:** Most *prepaid* orders are shipped within 24-48 hours of receipt. All orders must include proper shipping charges, and must be paid by U.S. check, Money Order, COD, or VISA/Master Card (no P.O.'s). Foreign orders must be paid by VISA/MC only. *Checks from outside the U.S. are not accepted.*

**Our mailing address and phone number:**  
PowerSoft Products • 17060 Dallas Parkway, Suite 114  
Dallas, Texas 75248 (214) 733-4475

## EUROPEAN ORDERS and Support:

Please contact our full-service distributor in the UK:  
MOLIMERX LTD., 1 Buckhurst Rd., Townhall Square,  
Bexhill-On-Sea, E. Sussex, England  
Tel: (424) 220 391 or 223 636.

**SHIPPING/HANDLING:** Standard charge per shipment is \$3 for UPS ground (approx. 4-5 days). Blue Label shipping (2 days) is offered for the difference in price (usually *only* \$2-\$3 a package). UPS *COD* will add \$2 to the total. Each page contains proper shipping amounts for each item. Over-night shipping *is* available if you prefer (Federal Express or UPS Red). Starts at \$12.50. Foreign countries; appropriate airmail charges will be added to your charge card (averages \$10-\$15).

**REGISTRATION and Support:** A registration card is included with all of our products. If you buy from a dealer, make sure the card is there! We ask that you complete and return this card to us within 30 days of purchase. This will keep you on our mailing list and flagged for the services available to REGISTERED owners. *We cannot provide support unless we have this card in our files.* If registered, we support you to the fullest. We always verify ownership. We mail out periodic mailings and newsletters that you won't want to miss!

**UPDATES and UPGRADES:** We do change our programs from time to time; usually to allow the use of newly available hardware, such as the Models 4/4P. Updates are *not* upgrades from one SERIES program to another, including enhancements or different printers or computers. We may offer these items at a reduced price to our registered owners as we have done with many of our new products.

We can usually re-record MASTER disks sent in by REGISTERED owners at a very reasonable charge. This is also how we handle erased, crashed, or written-over MASTER disks. This charge includes shipping/handling by U.S. Mail, usually in a *24 hour turn-around time*, but please allow for shipping time. These charges do not usually include new documentation, but may include some addenda pages (please do not return your manual, unless specifically requested). The basic charge is \$10 for one disk, or \$15 for BOTH disks of a two disk set **WHEN SENT TOGETHER**. If new media is required (damaged disk), \$2 must be added for a new

disk and the damaged media must be returned. Package the disk(s) carefully, and mark the package "Attn: Updates - (program name)." Put a note inside explaining the services you require. We suggest sending important packages by registered or certified mail (*we are not responsible for what does not reach us*). Updates must be pre-paid by U.S. check, M.O., or VISA/MC (no P.O.'s!), and discounts are not allowed. Foreign updates are by VISA/MC only, and additional shipping charges will be added. We will hold any package not meeting these requirements and send notification of the problem (packages will not be returned unless shipping is covered). This policy supercedes any earlier ones, and we reserve the right to change it at any time without prior notice.

**OTHER:** We cannot always inform registered owners that updates are available, but usually do send a mailing to owners of a product if and when necessary. Periodically we do a mass mailing that lists all upgrades and updates available. *You may write or call for current version information on any PowerSOFT Product that you own.* When writing or calling, please try to give your approximate purchase date, any version numbers found, and the file dates if using LDOS/TRSDOS 6. When a change is a minor one, patch instructions may be available by simply sending a self-addressed, stamped envelope, esp. if using LDOS/TRSDOS 6. We cannot always update older copies by this method. If you have to send it in, the charges listed above will apply. Finally, if you encounter a problem, please let us know and we will do our best to solve it. It may be something we have not heard of before! Send all letters "Attn: Tech Support (program name)."

**PROBLEMS and RETURNS:** our products work as advertised. If you have a problem on receipt of a program, see if you can break the problem into one of the following two categories: faulty diskette or technical problem. If the disk is unreadable contact your dealer (if purchased elsewhere), or us, if you bought it direct. The disks are guaranteed for 30 days from purchase to be loadable. If the dealer cannot exchange it for you, send it to us within the 30 day period with a copy of your invoice for diskette replacement (same type only). If the problem is technical, please see your manual and see if there was something you might have missed. If you still have a problem ask your dealer. If you continue to have a problem, contact us. Due to the nature of this business, *we will not accept returns or issue refunds on demand.* We will strive to help you solve the problem if it is something relating to our software. If you think you have a special case, please write first explaining your situation *before shipping the product back*. We cannot and will not issue refunds if purchased elsewhere.

*Thank You for your cooperation  
and support!*

## ***New for Catalog #6!***

- *PC/MS-DOS version of Super Utility! Yea!! - Page 12*
- *Convert data files from your TRS-80 over to PC/MS-DOS or CP/M with SuperCross/XT! - Page 10*
- *Convert Mod I or III BASIC programs for use on Mod 4 or MS-DOS with CNVBASIC! - Page 10*
- *New concept in TRS-80 databases with our new Auto File Manager - AFM! Truly relational database finally! - Page 2*
- *The complete ST80-III communications system is now bundled together! - Page 15*
- *Beef up SCRIPSIT™ with PowerSCRIPT 4.2! Adds many new features! - Page 16*
- *NEW! Reference Manual for SCRIPSIT! - Page 17*
- *Backup protected PC disks or run them from your hard drive with COPY II PC - Page 13*
- *Windowing for the 128K Model 4! - Page 17*

**POWER SOFT**  
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**TO:**

**\* If received at an office, please give to your computer manager.**

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