**...being ye compleat
catalogue of peripherals
available for your PET**

Skyles
Electric
Works

All Skyles Electric Works products shown on these pages have been designed or adapted specifically for the various PET computers.

Bob Skyles, the driving force behind Skyles Electric Works, joined Commodore in mid 1977 as Chief Engineer of the PET division, at a time when production of PETs was barely starting up. In the little over a year he was in charge, the PET became a deliverable, off-the-shelf reality.

In the almost two years since he started up Skyles Electric Works, he has seen his company become the largest independent producer and marketer of peripherals and enhancing devices devoted exclusively to Commodore computers.
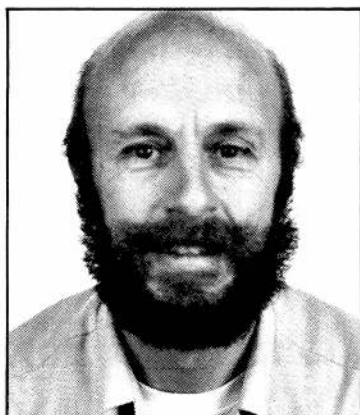
Bob and his company are dedicated to providing products that will enhance the power and usefulness of the PET. So, this modest catalogue—the second edition of the first ever to be devoted exclusively to PET peripherals—is really dedicated to the owners of PET computers.

**A Note on Terminology:** For better or worse, Commodore decided to call some of its newer computers "CBMs" rather than "PETs." Habit dies hard, so you'll find us referring often to the Commodore computers as PETs when some of the time we may really mean CBMs. Even though we sometimes refer to the computers as "PET/CBM," we find it very awkward.

## The Skyles Big KeyBoard
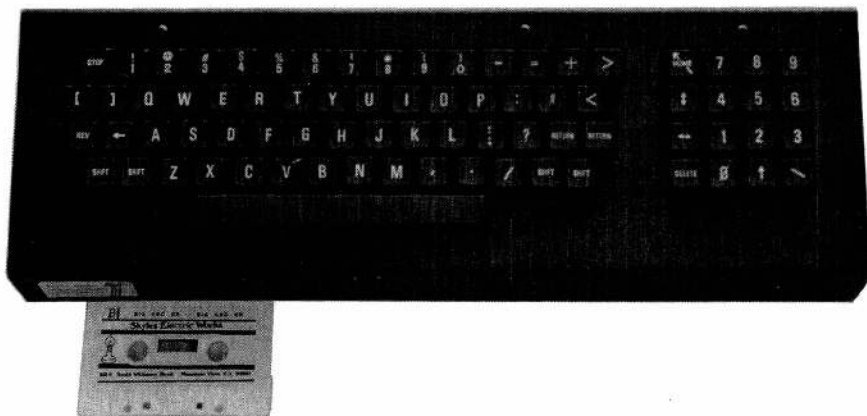
# How the Marvelous Skyles Big KeyBoard Came to Be... and How You Can Save

*The first PET 2001-8 computers sold more like hot cakes than computers. The demand kept outstripping Commodore's ability to feed everybody. And everybody loved the PET.*

But the one thing they didn't like was the tiny keyboard and the unsatisfactory spring action. When Bob Skyles left Commodore in the fall of 1978 and started up Skyles Electric Works (SEW), the first product he designed and produced was the 15-inch wide Big KeyBoard. And the Big KeyBoard sold like hot cakes.

Small wonder: the Big KeyBoard filled a need, was well built and, in the year and a half since the first ones were shipped, stayed sold.

When Commodore finally announced that no more small keyboards would be produced, effective January 1980, the company only confirmed what SEW had known for over a year.

But there's much more to the Big KeyBoard than a big keyboard:...keytops double shot for lifetime durability...switching action that uses gold cross-point contacts and gold plated torsion springs...and the keyboard set in heavy gauge aluminum housing that can be cleaned by running under tap water.

- Ten numerical key caps for the top row — which normally sell for $9.00 the set — are now included at no extra charge.
- An 18-inch ribbon cable is included at no additional charge.
- The Big KeyBoard can be operated with up to 100 feet of cable...at a very reasonable price; not much more than a dollar a foot!

---

**Now included at no extra charge** is a cassette containing a machine language program. Load it in and the Big KeyBoard becomes a true **large computer keyboard**...with lower case characters; upper case by using the shift key. And a shift lock, quotations in the proper place, numbers across the top, auto repeat instructions and the ability to reassign any key or all keys in the keyboard.

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*Shipping and handling, California sales tax where applicable must be added. See order form attached.

# The Software Development System for the Professional Programmer and the Serious Amateur Software Hobbyist

**...and for anyone who needs to automate dedicated industrial measurement and control applications.**

**The MacroTeA,** designed for use with the Commodore PET to create a remarkable synergism: a complete, integrated **software development system** for the 6502...the only 6502 system not requiring a separate disk drive. With over 65 commands for your complete machine language programming.

**...a lightning fast...fast...fast machine language assembler with true macro capabilities.** Assemble 16K source text in less than ten seconds! A single name identifies a whole body of lines. Macro and conditional assembly support. Automatic line numbering. Labels up to ten characters long; $10^{16}$ different labels.

**The Skyles MacroTea and Memory Boards** *hooked up to an original PET2001-8 (expanded to 32K). "A tremendous amount of stuff in unbelievably small space,"* says Skyles.

## Over 65 Commands:

**...a super powerful text editor. 34** commands with string search and replace capability. Manuscript feature. Text loading and storage on tape or disks. Supports tape drives, disks, CRT, printers and keyboard.

**...a fantastically fast macro assembler** with over **25** commands, pseudo-ops, and macro capability assembly options.

**....an enhanced monitor with 16 powerful commands for program debugging and final polishing.**

**...with a warm-start button,** on a 12 inch cable. Reset the PET but not the 1792 bytes of object code in the **MacroTeA** RAM memory.

**...a completely solid state firmware system**...all in ROM. No tapes to load. The system is available from the time you turn on your PET to the time you shut it off.

Install permanently without tools and in less time than it takes to load an equivalent sized assembler/text editor program from tape. No tape loading ever. And no occupying of RAM memory space: the MacroTeA put 10K of executable machine language code in ROM (9000 to BFFF) and 2K in RAM (9800 to 9FFF).

2

15 chips on a single high quality printed circuit board; interfaces with PET's parallel address and data bus or with Skyles Memory Adapter. A comprehensive 172 page manual is included.

Truly, there is simply no other system of this magnitude at anywhere near this price.                              **$395.00\***

*(With any Skyles Memory Expansion System, $350.00\*)*

---

**Flash! Available September 1980.**

**Optional interface circuitry to enable downloading of KIM, SYM, AIM 65 systems. Optional PET-driven EPROM programmer. Optional PROM cards.**

---

# A Short Demonstration of Nested Macros

Imagine a 20 digit math routine compiler, consisting of a collection of nested macros for the math functions; such as add, subtract, multiply, divide, exponentiation, roots, special functions, etc...

Consider **ZUM** the compiler instruction of the addition of two 20-digit numbers. An assembler macro in the math routine compiler.

```
1650;!!!ZUM .MD
1660            INPUT (1)      ;LOAD REG0
1670..SUMLOOP INPUT (0)      ;LOAD REG1
1680            ADD
1690            PRINT
1700            T1_A           ;REG1_ACC
1710            JMP ...SUMLOOP
1720            .ME
//
```

Note that **INPUT** (x), **ADD, PRINT** are also macros nested within **ZUM**.

Consider **INPUT**:

```
0070            .OS  ;STORE OBJECT
0080            .BA $1000      ;AT $1000
0090;
0100;*** INPUT  20 DIGIT NO.
0110!!!INPUT   .MD (... REG)
0120           LDA #... REG
0130           STA REG
0140...IN      GETLINE
0150           CPY #21
0160           BCC ...OK
```

**GETLINE** is also a macro nested in **INPUT**.

```
0430!!!GETLINE .MD
0440            LDX #10
0450            STX $71
0460            LDY #0
0470            STY $72
0480...LOP      JSR $FFCF
0490            CMP #$0D
0500            BEQ ...FIN
0510            STA ($71),Y
0520            INY
0530            JMP ...LOP
0540...FIN      .MD
```

\*Shipping and handling, California sales tax where applicable must be added.
See order form attached.

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# Two Printers that Interface with Your PET Right Now

**...and offer full graphics.** High speed thermal printers that will interface not only with your PET but also with any Commodore or SEW peripheral.

Full line buffering. Bi-directional, look-ahead, quiet printing...at 40 (5 x 7 dot) characters per second on a ten character per inch format. And prints on easy-to-read white paper. 96 character set, including upper and lower case, numerals and symbols.

**In the graphics mode**, seven bits of each byte correspond to the seven dots in each of the 480 print positions per line. Since the computer driving the printer has full control over every dot, it can print graphs, bar charts, line drawings, even special and foreign language symbols.

Unbelievable reliability in such comparatively low cost, intelligent printers: the thick film printhead's life expectancy is rated at 100 million characters. Two DC stepping motors, the only driven parts in either printer, control the print head and the paper drive.
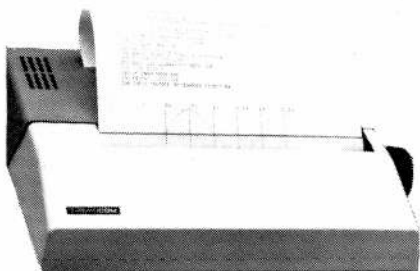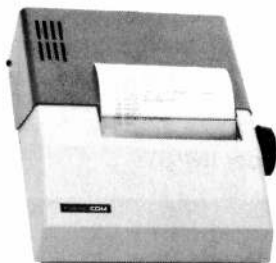
**The PAL 40**
40 characters per line.
Prints on 4 7/16" wide white thermal paper (200 feet included)
Full graphics at 60 dots per inch.
**Only $450.00***

**The PAL 80**
80 characters per line.
Prints on 8½" wide white thermal paper (150 feet included)
Full graphics at 60 dots per inch.
**Only $675.00***

Either PAL operates directly on 115 v., 60Hz current with only 20 watts (230 v., 50 Hz version available). No external power supply needed. Complete with 2½ ft. cable interfacing with the IEEE bus; test and demonstration tape at no extra cost.

Now you can order paper for either model directly from SEW. See the order form in this catalogue.

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## CATALOGUE SPECIAL
### FREE! The Magic Full-Graphics Cassette

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*Shipping and handling, California sales tax where applicable must be added.
See order form attached.

# 'Someday My Prints Will Come' Wait No Longer for Someday — Letter-Quality Printing Now

**Plug Your PET into Any Electric Typewriter in Minutes And Get a Truly Professional Typing Job**

With maximum performance and reliability, any good power-return electric typewriter-printed page is a perfect copy of the final draft you prepared at your PET or CBM computer, now that you're using the I/O PAK. (Perfect for use with word processors; see pages 15 and 16).

The I/O PAK interfaces with any electric (with power return) without changing the appearance, the normal operation or the touch. No modifications are required and the typewriter remains eligible for factory service.

52 solenoids or coils riveted to a PCB comprise the I/O Pak. A spring-loaded plunger inserts into each coil and extends out the bottom of the PCB. Installs in minutes without getting into your PET or typewriter. The I/O PAK mounts on
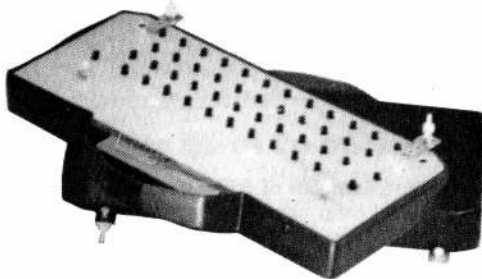


the typewriter and is positioned by two washers affixed by double-stick tape to either side of the space bar. *For normal typewriter use, simply lift off the I/O PAK. Replace it just as easily.* Can be removed, transported to work on any other typewriter temporarily. Also includes power supply, interface to the I/O port, cassette or disk software, manual.

*Fast:* Can actuate keys up to 50 CPS, although most typewriters cannot go beyond 18 CPS. (We recommend 12 CPS maximum to protect your typewriter.)

*Reliable:* Factory samples have been designed and tested to over 10 million operations per key. If the electromechanical coil should burn out, simply remove and replace. At a very nominal cost.

Complete with PCB springloaded plungers, power supply, interface, cassette or disk software, instruction manual. **$585.00***

## ... New from Skyles

# How to Get the Most Out of Professional-type Printers

...Like the NEC Spinwriter or other high-speed data-processing or word-processing printers. Letter-quality with printers using any Centronics-compatible ASCII input.

The amazing Complications C-101 Printer Adapter converts PET/CBM print code to ASCII equivalent. (Interpretation of graphic characters depends on the printer.) A switch selects upper case for listings; upper and lower case for text.

**Included:** 18-inch shielded cable and 24-pin stackable connector (for address #4) on input; 6-foot ribbon cable with 36-pin Centronics standard connector on output; edge connector to IEEE 488 adapter.

**Complications C-101 Printer Adapter**                                    **$250.00***
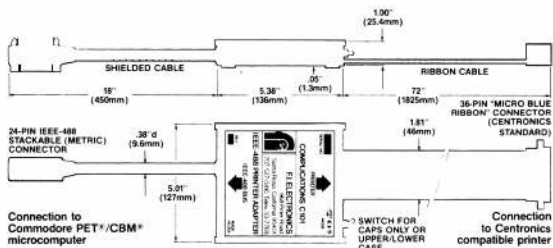


## A Plenitude of Printouts: $1.00

**Note: Interested in seeing samples of printouts from the PAL 40 or PAL 80 and from the NEC Spinwriter Printer connected to the Complications C101 Printer Adapter and from the Selectric we've got connected to our Selectric Interface System? Just send us your name and address and write "Printout." Please include $1.00 to cover the cost of shipping and handling.**

## Catalogue Special
## FREE! The Magic Full-Graphics Cassette

Full PET graphics on your printout...perfectly reproduced. You can even add up to 20 of your very own graphic symbols. And you can "screen dump" a complete copy picture of everything that appears on the PET screen. (In the case of the PAL 40, there can be some scrunching of symbols.)

How can all this be done? With the 4KB-plus machine language program on cassette.

**And this cassette is yours—at absolutely no extra cost**—with the purchase of either the PAL 40 or the PAL 80. (Regular retail for the cassette is $19.95.)

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# Old PET or New PET...
# Expand Its User Memory Now!

...up to 40K with the precision-made **Skyles Memory Systems**

Over 70 million bits of Skyles Memory are already in the field with only two reported failures.† First quality static RAMs, solid soldered on first quality glass epoxy boards.

The printed circuit board adapter connects directly to the data bus on your PET, with ribbon cable and 50 pin connector that keeps the data bus open to the outside world. Installs in minutes without special tools or equipment.. you need just an ordinary screwdriver.

Three Skyles Memory Expansion Systems to choose from: 8K, 16K, 24K... allowing the 2001-8 to be expanded to 32K, the new 8N also to 32K, the new 16N/32N and 16B/32B PETs to 40K. You can, at any time, increase your PET's memory by 8 kilobyte increments up to the limits indicated. **Let your PET's user memory grow on you, 8K at a time.**

Each System now comes complete with a test cassette — at no extra cost — for testing high speed read-write and low speed memory retention.

At the great prices you should always expect from Skyles:

| | | |
|---|---|---|
| **8KM  8K Memory Expansion Board** | | **$200.00*** |
| **16KM  16K Memory Expansion Board** | | **400.00*** |
| **24KM  24K Memory Expansion Board** | | **600.00*** |
| **PMA-8  Memory Adapter for 2001-8** | | **50.00*** |
| **PMA-16  Memory Adapter for 8N, 16N/32N and 16B/32B** | | **50.00*** |

Note: An adapter is required for interfacing first Memory Expansion Board.

**†We're so sure of ourselves, we're guaranteeing all complete Skyles Memory Expansion Systems for a period of two full years!**
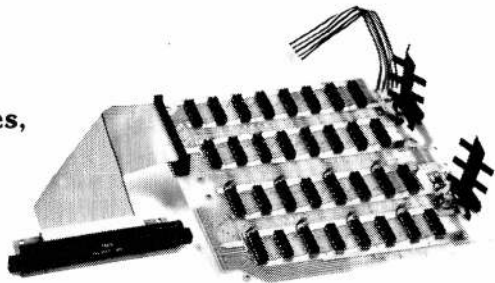
*Shipping and handling, California sales tax where applicable must be added.
See order form attached.

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# Presenting The Regent: Needed In Every Computer Classroom

*The students are grouped around PET computers in a classroom. Each is hungry for a hands-on turn at the keyboard. Some are just barely beginning to understand the computer; others are so advanced that they are already capable of cleaning up the programs at the end of the period. What to do?*

**Use the Regent**

With the PET computers and a dual floppy interfacing with the Regent, the appropriate level of difficulty and the proper amount of time and memory can be assigned to each student. A job queue can be made up and all users identified. Beginners cannot crash either the program or the system; advanced students may even use machine language statements.

**Five levels of Regent user privilege:**

*Systems Level:* Restricted to the system commands only. BASIC programs cannot be created or run.

*Level One/Student:* With a specified amount of disk space and session time, the student has access to all simple user commands. Students may load own programs or ones from library; may use Toolkit commands and send jobs to the printer. Certain BASIC commands restricted at this level; system cannot be crashed.

*Level Two/Student:* Access to full BASIC command set. But another student's program cannot be loaded. All functions and features (almost), of the computer and of peripherals can be used at this level. (But the student and system are still fully protected from each other during I/O operations.)

*Level One/Operator:* Available to more than one operator; suitable for advanced students and teacher's aides for housekeeping and for access to files. Operators must wait turns in the job queue.

*Level Two/Operator:* For the instructor exclusively. Logging in is permitted at any time.

The Regent insures file protection at all times in a format incompatible with the conventional BASIC LOAD command. System user's file is encoded so all user's passwords remain secret. Operator commands are protected from illegal use by the privilege flags. Only the operator may execute these commands. User name specification in file commands is allowed only to the operator.

**The Regent Consists of:**

A system disk, an enhancement module (LSI circuit on PCB that fits inside PET), a controller module and a complete instructor's manual. Designed for operation in 8K, 16K, 32K PET/CBM with Commodore disk drive and new DOS. Each Regent disk holds up to 170KB which may be allocated among the students at the operator's discretion.

**Now: up to 15 PETs and a single dual disk may be used in the Regent system!**

**The Regent system**. . .including enhancement and controller modules, program disk, teacher's handbook                                                                                    **$250.00\***
**Additional enhancement and controller modules, for each additional PET  $150.00 each\***

*(Consider ordering the 40-page teacher's handbook available to interested teachers and other faculty members for the special price of $4.95 plus $1.00 for shipping and handling. The manual tells the complete Regent story. The price of the manual wil be refunded upon purchase of the Regent system.)*

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\*Shipping and handling, California sales tax where applicable must be added.
See order form attached.

# The PET Postal Deli

*...being a smorgasbord of items—books and disks and tapes and such—that every PET owner needs and frequently buys. Now you can order with the greatest of ease. From Skyles Electric Works by mail. Please use the handy order form enclosed.*

*(Note: Please do not order these items by phone: errors in transcribing and in filling your orders can happen much too easily with phoned-in orders.)*

## Here's the Best Floppy For PET's Disk Drive

That's Bob Skyle's opinion after checking them all. From Maxell, whose superb disk technology is recognized by computer people all over the world.
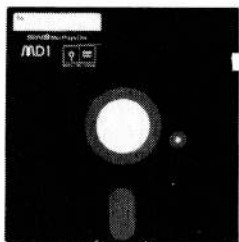


The MDI single-sided, single-density disk is ideal for use with your PET disk drive. Maximum recording density of 2500 BPI with high speed transfer rate of 250,000 bits per second. Average access time of only O.5 seconds. Special wear-resistant binder system insures minimum friction, maximum durability. 2.5 micron coating; every track tested and certified error free by the manufacturer.

**SPECIFICATIONS**

| | | |
|---|---|---|
| Error-free | Missing pulse "0" Extra pulse "0" | |
| Recording Density | 2581 BPI max. (Track #34) | |
| Capacity | 71680 bytes (128 bytes × 16 Sectors × 35 Tracks) | |

**10 disks:**      only **$49.95\***

*(Six month warranty: We will replace any disk that fails, short of physical abuse.)*

## Add a Little Class: The Perfect Storage For Your PET Disks

The Flip Sort. Self-contained storage units of transparent, smoke-colored, durable acrylic. Hinged lid protects disks from the dust that can lead to loss of data. Adjustable tabs can be set to desired positions for easy retrieval. Stores up to 60 disks. Unique design allows lid to function as carrying handle.

**$29.95\***



## Get Your PET Disk From Here to There ...In Perfect Shape

Floppy-Armour is a tough, lightweight mailer for your PET disks. Protects against damage from folding or creasing during shipment. Makes mailing easy and quick, too.

**10 Floppy-Armours:**      only **$10.95\***

*Shipping and handling, California sales tax where applicable must be added.
See order form attached.

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### Now: Computer Grade Tapes from Skyles

Here's a superior high-output oxide formulation cassette tape produced by a leading manufacturer. The recording surface is exceptionally well calendered and polished. Ideally suited to the critical low drop-out requirements of PET data recording.

The C20 (100 feet) length allows storage of over 32K bytes per side for your PET.

Cassette shells are precision five-screw type with lubricated roller guides and stainless steel pins, insuring proper tape guiding. White only.

| | |
|---|---|
| **10 cassettes:** | only **$10.95** * |
| **10 cases for above:** | only 1.49 * |

# Bob Skyles' Book Barn

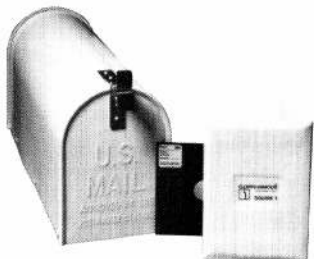*. . .being a select assortment of books that Bob Skyles recommmends and which are now available through Skyles Electric Works.*

*These books are particularly recommended for programmers wishing to work in 6502 machine language, for PET owners and users who want to know more about PET input and output, for hardware hobbyists.*

*All comments about these books are those of Bob Skyles and are of course highly personal and subjective. Just in case you disagree with Bob's opinions after you have bought a book (or books) from us, return it (or them) within ten days for a full refund.*

### Hands-on BASIC with a PET
by Herbert D. Peckham

Don't know BASIC? This is your book. I'm sure this wil make you into a competent BASIC programmer. Clearly written, well organized.                         **$14.95** *

### The BASIC Handbook
by David A. Lien

Now you can transfer any BASIC program to the PET much more quickly and easily with this encyclopedia of BASIC computer language. This book should be on every BASIC programmer's desk, right next to the computer.            **$14.95** *

### PET and the IEEE488 Bus (GPIB)
by Eugene Fisher and C.W. Jensen

Want to connect instruments to the PET IEEE bus. . .and do it successfully? This book is an absolute necessity. The data in the appendices alone are worth the full price.                                **$14.95** *

### 6502 Assembly Language Programming
by Lance A. Leventhal

All you ever wanted to know about 6502 machine language programming but were afraid to ask. Over 600 pages with complete coverage of all aspects of 6502 programming. An excellent reference book for the expert programmer. I believe that, before using the PET user port, you *must* read chapters 11 and 12 on input/output. If you buy only one book on 6502 machine language programming, this should be it.
**$12.50** *

### PET/CBM Personal Computer Guide
by Carroll S. Donahue and Janice K. Enger

The book for the PET owner of all seasons. Starts out easily enough for even the greenest of novices. Yet offers to the most advanced programmer much hitherto unavailable data, including complete memory maps of page zero and a new version of 2.0 and 3.0 operating systems. *(Warning: Appendix A takes Commodore's SNAFU and proceeds to FUBAR it.)* Brand new; published June, 1980.                        **$14.95** *

*Shipping and handling, California sales tax where applicable must be added. See order form attached.

### 6502 Software Gourmet Guide and Cookbook
by Robert Findley

Here's another book I recommmend very highly for 6502 programmers...particularly for those who wish to convert machine language to 6502. I particularly recommend chapters 4, 5 and 6 which cover, in depth, routines for conversion, floating point and decimal arithmetic.
**$12.95***

### Programming the 6502
by Rodney Zaks

Yet another book I recommend highly on learning and using machine language programming with the 6502. This one is particularly good as a self-teacher. Outstanding in this book are chapters IX and X on program development. **$12.95***

### 6502 Applications Book
by Rodney Zaks

A companion to Zak's book cited above. A fine introductory text for applying single board computer technology to real world control and I/O situations. If you're a beginning computer hardware hobbyist, you'll love this book. **$12.95***

### PIMS—Person Information Management System (the book, published by SCELBI) together with *PIMS Plus* (the cassette, published by Skyles Electric Works).

A book and tape cassette to teach and reinforce.

Unleash your PET's data processing power for personal or business use. This fantastic book explains in plain English much of the jargon and many of the buzzwords that DP types seem to love and use promiscuously. There's even a complete listing of a PIMS program.

The Skyles cassette tape has a customized PIMS program that makes use of either the Commodore 2040 dual disk or the PET version of PIMS for old or new ROMs. At least 16K RAM is required; 32K to get full usage of this fabulous program.
**$24.95***

*This list of recommended books would be terribly incomplete if the following two books—or manuals—were not on the list of books. Bob Skyles wrote them. (Is this an example of his hungry ego?) Please see the appropriate sections in this catalogue for fuller descriptions.*

| | |
|---|---|
| *MacroTeA Instruction Manual* | **$14.95*** |
| *Regent Teacher's Handbook* | **4.95*** |

*Shipping and handling, California sales tax where applicable must be added.
See order form attached.

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## "If you could own only one peripheral for your PET, it should be this. It opens the whole world to your PET."

*That's what Bob Skyles said about the Cat and D-Cat modems. The first modems with outstanding price-performance ratios and ready to go.*

The Cat — the first quality acoustic modem for the small computer user. And now the D-Cat, too — the first directly coupled modem, with the portablility, ease of use and low cost typical of the acoustic modem, yet with the distortion-free operation you'd expect of a directly coupled modem.

The Cat and D-Cat have been specially prepared by Skyles for interfacing to the PET user port (*not* to the IEEE port) and with a special cassette program, allowing communication

    . . . from modem to disk and disk to modem
    . . . from modem to terminal; read on screen, save on disk
    . . . from disk to printer through IEEE
    . . . from disk to screen

The Cat communicates with any Bell 103 or with another Cat; the D-Cat with any Bell 100 series as well as with another D-Cat. Fast data exchange: 30 characters per second. Both have the sleek, handsome, professional, low-profile look, and are surprisingly lightweight:

**The Cat PetCom:** *10.2" × 4.7" × 2.3"; 1.5 lbs*
**The D-Cat PetCom:** *10" × 4.7" × 1.2"; 12 oz.*

From Novation, the recognized world leader in personal communications. One of the oldest and most respected names in computer modems and for years a supplier to DEC.

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## SPECIFICATIONS

|  | Cat PetCom | D-Cat PetCom |
|---|---|---|
| *Data Rate:* | 0-300 Baud | 0-300 Baud |
| *Compatability:* | Bell 103 | Bell 100 Series |
| *Interface:* | EIA RS 232C | EIA RS 232C |
| *Modes:* | Answer, Originate, Test | Data, Talk, Monitor, Normal, Test |
| *Duplex:* | Half, Full | Half, Full |
| *Indicators:* | Power, Carrier (Ready) | Ready, Power |
| *Frequencies:* | TX-ANS RX-ORIG | TX-ORIG RX-ANS |
| *Mark:* | 2225 Hz | 1270 Hz |
| *Space:* | 2025 Hz | 1070 Hz |
| *Receive Sensitivity:* | −45 dBm |  |
| *Power:* | 115 VAC, 2.5 w Max | 117 VAC, 60 Hz, 15 w |
| *Size:* | 10.2 × 4.7 × 2.3 in. | 10 × 4.7 × 1.2 in. |
| *Weight:* | 1.5 lbs | 12 oz. |

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**The Cat:** Switches for mode selection and operation. LEDs display unit status. Acoustic self-test is standard. Compact powerpack plugs directly into wall socket.

**Now $325.00\*** complete with membership in The Source\*, Skyles six-foot cable/interface to the PET user port, together with Skyles cassette program in machine language and in BASIC.
*(If bought separately: $180.00, modem; $80.00, cable/interface and program; $100.00, membership in The Source\*)*

**The D-Cat:** FCC-approved for handset jack connection with any modular phone, either single or multi-line. No need for adapters. Can fit under phone; installs in seconds. Mode switch to monitor voice or data transmission. Special "hold" function; complete self-test. Power pack plugs directly into wall socket.

**Now $350.00\*** complete with membership in The Source\*, Skyles six-foot cable/interface to the user port and Skyles cassette program in machine language and in BASIC.

*(If bought separately: $210.00, the modem; $80.00, cable/interface and program; $100.00, membership in The Source\*)*

## *What About the Source?

*Sometimes called "The Information Utility," it's a telecomputing network that gives you, through your Cat or D-Cat modem, thousands of programs and data bases and allows you to communicate with other users interactively and through electronic mail.*

*You'll have access to real-time news, sports, financial, travel, shopping and consumer data bases, even games. Search the UPI wire service by keyword and get all stories for the preceding six days on—let's say—CARTER or REAGAN or GOLD or IBM. Etc.*

*Store as many files as you want on The Source; each file may be as long as you like. And all files are constantly on line.*

*Included in the $100.00 charged in the special Skyles Cat or D-Cat modem package is the one-time charge to establish your account with The Source, obtain a special account number and to receive the complete documentation. From that point on, you pay connect-time charges of $2.75 per hour from 6 PM to 7 AM, or $15.00 per hour from 7 AM to 6 PM. On-line storage costs are about $1.00 per month per page (approximately 2000 characters). Certain programs are only available for a modest fee (which includes royalties paid to the program authors). You may even have files printed out by The Source and mailed; again, for a very modest fee.*

(There are also other sources of information accessed by your modem at only the cost of a local phone call. For instance, calling after 9 PM and writing in Fortran on your PET can access the data in one of the giant computers at MIT. That's just one instance; there are many more.)

\*Shipping and handling, California sales tax where applicable must be added.
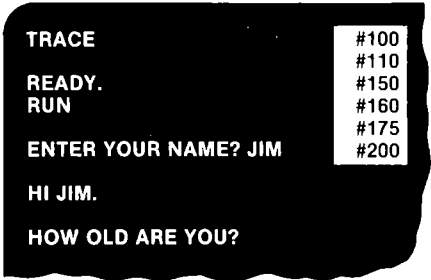See order form attached.

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# For PET Owners Who Want More Fun and Fewer Errors with Their Programming

Here are Ten Commands you'll need, all on a single chip you can install in a minute without tools, on any PET or PET system.

| | | | |
|---|---|---|---|
| AUTO | DELETE | RENUMBER | |
| HELP | TRACE | STEP | OFF |
| APPEND | DUMP | FIND | |

2KB of ROM firmware on a single chip with a collection of machine language programs available to you from the time you turn on your PET to the time you shut it off. No tape to load or to interfere with any running programs.

Can be placed in main board socket or with precision-engineered PCB connector to attach to data bus...

| | |
|---|---|
| TRACE | #100 |
| | #110 |
| READY. | #150 |
| RUN | #160 |
| | #175 |
| ENTER YOUR NAME? JIM | #200 |
| HI JIM. | |
| HOW OLD ARE YOU? | |

depending on the model of your PET and additional memory systems.

**With Computhink Disk**...and Toolkit model TK 80 ED-1 (for PETs with original ROMs) or TK 160 ED-1 (for PETs with newer ROMs): Just add two small jumpers to the Computhink system and a short program to the DOS diskette, enter the command SYS 42000 and you can switch between the Toolkit and the Disk without upsetting or losing any program or data in your PET. No need to reset.

**With New PET and Computhink Disk Board**...But suppose your only socket is booked: Plug in your Computhink mask ROM, add a jumper to the Computhink memory-disk controller board; plug the new Toolkit TK 160 ED-2 into the Computhink disk board. Power up and enter a short switching program into the DOS diskette. Switch between with a single SYS command.

**Now available to interface with your:**

| | |
|---|---|
| PET/CBM models 8N/8B, 16N/16B, 32N/32B (chip only) TK160N | $ 50.00* |
| PET 2001-8 (chip and interface PCB) TK80P, TK160P | 80.00* |
| Expandamem TK80E, TK160E | 80.00* |
| Skyles Memory Expansion System TK80S, TK160S | 80.00* |
| PME 1, RC Factor, Eventide Clockworks TK80S, TK160S & GTK | 90.00* |
| Computhink Disk System for PET 1 (original PET) TK80ED-1, TK160ED-1 | 90.00* |
| Computhink Disk System for PET II (new PET) TK160ED-2 | 100.00* |
| Commodore Word Pro II (for original PET 2001-8) TK160 (S or E) & Socket 2 ME | 95.00* |
| Commodore Word Pro III (for original PET 2001-8) TK160 (S or E) & Socket 2 ME III | 95.00* |
| Commodore Word Pro II (for new PETs, CBMs) TK160N & Socket 2 ME | 72.50* |
| Commodore Word Pro III (for new PETs, CBMs) TK160N | 50.00* |
| Skyles MacroTeA TK80M, TK160M | 50.00* |

*Shipping and handling, California sales tax where applicable must be added. See order form attached.

# New PET or Old...
# Use Word Pro and Toolkit
# ...with Socket 2 ME

**About the Word Pro**

*Commodore has introduced two word processing systems, the Word Pro II and the Word Pro III. (We don't know what happened to the Word Pro I.)*

*Either can operate with any PET or CBM...except the 2001-8. That is, until Skyles Electric Works came to the rescue. Once again. This time: the Socket 2 ME, the U/L•C Solution (and let's not forget the Memory Expansion Systems...and even the Big KeyBoard).*

## For New PETs and CBMs:

Now you can select between the Basic Programmer's Toolkit and the Commodore Word Pro II while they occupy the same address space. The Socket 2 ME is a 2.5" x 2.75" board that fits neatly into the socket on the main logic board of all *new* PET/CBMs. Then both the Word Pro II and the Toolkit plug into the Socket 2ME. *(The Word Pro III does not require a Socket 2ME when interfacing with new PETs.)*

**Included:** A miniature slide switch that mounts inconspicuously to the side of the PET base and connected to the Socket 2 ME by a special cable...and you're off and running. There are also first-rate installation and operating instructions you've come to expect from all Skyles documentation.

## For the Original 2001-8 PET:

The Socket 2 ME interfaces with the BASIC Programmer's Toolkit with either the Word Pro II or the Word Pro III. Word Pro II requires a total of 16K of memory; Word Pro III requires 32K of total memory. *(We recommend, of course, the Skyles Memory Expansion Systems. See page 7.)* No slide switch is necessary with Word Pro III. Either the II or III requires a Commodore 2040 Disk Drive.

# ...Skyles does it again

# More for PET 2001-8 Owners: the New Skyles U/L•C Solution

Now you can obtain a new character generator ROM chip that allows upper and lower case characters to be consistent between the screen and the printout with Word Pro II or Word Pro III.

The U/L•C Solution doubles your character generator ROM capability and allows you to retain the original character generator ROM so that all your old standby programs remain intact. The U/L•C Solution features a selector switch between character generator ROMs.

---

## Socket 2 ME, U/L•C Solution, Word Pro and Toolkit Price Schedule

| | | |
|---|---|---|
| U/L•C Solution | board and switch only | $ 22.50* |
| U/L•C Solution-plus | board, switch, character generator ROM | 50.00* |
| Socket 2 ME | board and switch only | 22.50* |
| Socket 2 ME Toolkit TK 160 S or E | board and switch with Toolkit for Skyles (S) or Expandamem (E) | 95.00* |
| Socket 2 ME Word Pro II | board and switch without Toolkit; with Word Pro II | 120.00* |
| Socket 2 ME Word Pro II Toolkit TK 160S or E | board and switch, with Toolkit with Word Pro II | 190.00* |
| Socket 2 ME Word Pro III | board and switch without Toolkit with Word Pro III | 215.00* |
| Socket 2 ME Word Pro III Toolkit TK 160 S or E | board and switch with Toolkit with Word Pro III | 290.00* |
| U/L•C Solution Socket 2 ME Toolkit 160 S (E), Word Pro II | complete with character generator... in short, the works. | 235.00* |
| U/L•C Solution Socket 2 ME Toolkit 160 S (E), Word Pro III | the works as before but with Word Pro III instead of Word Pro II | 335.00* |

*Shipping and handling, California sales tax where applicable must be added. See order form attached.

# New! The MIPLOT Plotter: Superior Quality at a Value that's "Unbelievable!" — Skyles

*Bob Skyles has had extensive experience with plotters. He has dealt with systems containing plotters that cost over $100,000.*
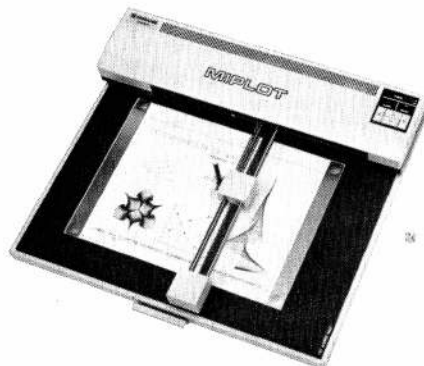


"But here's this plotter, the MIPLOT, that's maybe one-hundredth the price of the big ones I've used…and it's almost as good," Bob said recently. "It's a third the price of the next nearest comparable plotter I've seen lately…and the MIPLOT quality is superior. It's almost unbelievable!

"And you've got to see the superb manual that's included with the MIPLOT. It's practically a self-contained course in programming plotters."

The MIPLOT incorporates all intelligent functions required for producing graphs and drawings with 8 vector and 4 character commands. Operates in normal plotting, printer or self-test modes. Handsome, durable modular construction. Connects immediately to your PET's user port. Uses standard hard fiber tip pen.

It plots an area approximately $10\frac{1}{4}$ inches by 14 (on standard 11 x 17 paper) at a speed of two inches per second. With distance accuracy within 1% and repetition accuracy within .01 inches. Programmable step size is .004 inches; internal interpolation is in .002 inch steps. An alarm lamp indicates command errors or off-scale.

Includes power supply, I/O cable, fuses, two pens, 50 sheets of $11\frac{3}{4}$ x $16\frac{1}{2}$ paper…plus the complete 112 page manual with all subroutines for the PET, complete program listings and copies of 14 different basic plotting techniques, application programs and reproduced examples **complete with listings.**

**All at the "almost unbelievable…" price of $1,250.00\***

*(If you'd like, you can order the manual only at $16.00. Refundable, of course, when you buy the MIPLOT plotter.)*

---

### "The Plots Thicken"

Would you like to see what the MIPLOT can do? For a 12 page description of what the plotter can do, 15 pages excerpted from the applications manual, and a sample plot (suitable for framing), send $1.00 to cover the cost of shipping and handling. Write "Plots" when ordering.

---

*Shipping and handling, California sales tax where applicable must be added.
See order form attached.

# Does Your PET 2001-8 Need a Retrofit ROM Kit? Then Maybe You Need to Buy It from Skyles.

If you've decided to buy the improved new BASIC interpreter ROM chip set made by Commodore's MOS Technology division which offers

...14,336 bytes of ROM firmware code

...same interpreter program as the new 8N, 16N, 32N PETs

...arrays to 65,000 elements

...machine language monitor

...corrected cassette data recording errors

...improved random function RND(0)

...better error statements

...improved accuracy of TI$

...BASIC reset functions NMI implemented in software

...and with input statements that return all variables and with IEEE INPUT commands that work...everytime. With a dozen mites (small bugs) removed, too...

...*then consider buying your retrofit kit from Skyles.* Skyles Electric Works takes the tested MOS chips and retests them and subjects them to the Skyles burn-in process. The same testing that has given the Skyles memory systems such an enviable service record. (Over 70,000,000 bytes in use — many longer than a year — with only two reported failures.) And we supply you with our own 20 page installation, instruction and data booklet...worth $5.00 all by itself. The complete retrofit kit... **just $95.00** the set*.

**Important:** *Please indicate when ordering if the big* (**ROM**) *chips in the third row from the front of your PET have* **28 pins or 24 pins.**

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**VISA OR MASTER CHARGE ORDERS**
may call toll free (800) 538-3083
California residents, please use
(408) 257-9140

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# Attention, Big Tinkers:
# Now Do Your Own Thing

*Have you been feeling frustrated because Skyles Electric Works has been of-*
*fering only complete, ready-to-plug-in modules for the past two years?*

**Then rejoice!** SEW now has a line of experimental EPROM boards to plug into
any PET ROM socket. Now you can make your own character generator,
modify a bug out of the operating system; other good stuff.

**EPROM·it·2ME—24:** A board with sockets for two 2716 EPROMs to replace
any 4K ROM in a new PET.                                        **$20.00***

**EPROM·it·2ME—28:** A board with a socket for one 2716 EPROM to replace any
6540 ROM in an old 28-pin PET.                                 **$22.50***

**SUB·it·2ME—24:** A board with two sockets; one for a 2K or 4K ROM, the other
for the EPROM-it-2ME—24 board. With a switch to select between sockets.
                                                               **$22.50***

**SUB·it·2ME—28** (lower): A board with one 28-pin socket and one 24-pin
socket, with a switch to select between. Addresses for the lower 2K of a 4K
ROM select area.                                               **$22.50***

**SUB·it·2ME—28** (upper): Same as previous model except addresses are to the
upper 2K of a 4K select area.                                  **$22.50***

**Please use the handy
order form for mailing
your order . . . or use it
as a guide for
ordering by phone.**

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# Index
## to the Skyles Catalogue
### (grouped by subject)

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# Skyles Electric Works

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Mountain View, CA 94041
(415) 965-1735

# Skyles Electric Works

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