

1986

4-10-86

Here is a quick report on the New England Fayuh, as seen by one of the organizers (me):

The new computer-on-a-card was there and was working in the morning! It was in a wire wrap version that crashed by the afternoon MYARC presentation in the auditorium. A lot of people saw it, and it certainly was not vaporware. The first 20 PC boards have been on order for about two weeks. If they had been delivered on time, one of them would have been at New England, not the wire wrap version. They should be ready real soon now (or even sooner). For the wire wrap version to survive the trip at all, was perhaps fortunate. They aren't made to travel! Mass production by sometime in June, if all goes well. The card will include four ports - one for the IBM type keyboard, one for mouse, one for joysticks, and one for the monitor. The card will not support your color TV as the 4A does. If you want color, you must use a composite or RGB monitor. RGB will be necessary if you are to take full advantage of the high-res graphics or 80-column text capability and still have color. The present TI monitor does not have the resolution required for 80 columns!

As far as XBII is concerned, version 2.1 was not quite ready yet. The MIN/MAX is debugged and the integer math is working, but the user generated DEFs and SUBs are still giving some trouble. Lou Phillips made it quite clear that purchase of version 2.0 now entitles you to 2.1 without additional charge (except mailing?). If one person in an area gets the update on disk, it can be passed on to others, since the disk alone is worthless without the eeprom on the 128/512k card. There is no good reason to wait to buy the present version, unless you just don't want to be bothered with an incomplete version for now. I bought it this week to become familiar with the new functions, even though I knew it would not run most of my own software yet. I expect it will be ready within the month. Lou also clarified some comments made at TICOFF. The finished computer will have a new operating system, with perhaps some GEM similarities. (Paul Charlton says GEM-like displays aren't an operating system, they're an I-O device.) XBII will be version 3.0 with new graphic modes, not the currently expected 2.1. It may not even be called "extended BASIC" any more, but given a new BASIC name. He didn't say so, but I expect that not all that will be done for the initial production run, if it's in June, but both BASIC and the D.S. will be on disk anyway and can be upgraded as they are improved.

Barry Traver gave a superb inspirational talk about the TI family community and how it pulls together to support us all. Jim Horn talked about the role of telecommunications in the TI world and in general, and then he called JZ out of the audience for a few words - ostensibly about Compuserve. Well, JZ showed us all he is a very fine public speaker and an astute analyst of sociological trends. Remember that, future faire organizers! We all knew JZ could talk on a keyboard, but he is even better up in front of an audience! Paul Charlton, as usual, enthralled the technically sophisticated. His audiences are small, because his level is beyond a lot of us, but those that stay really listen. Chris Bobbit spoke of some exciting new things under investigation by ASGARD, particularly Richard Roseen. Their work could lead to an alternative type of new computer - bare bones in execution, but very fast and very capable. Prototypes will be developed, but there is no commitment to market it, unless it looks like there really is a demand for it. All-in-all, the New England Fayuh seemed to run very well. It certainly turned a good profit for the clubs participating, and the dealers seemed to do quite well, too. The headcount was about 600 people, with about half of the cars in the parking lot from out of state. It was done without any paid advertising, but every other source we could think of was exploited and the word reached the people it was intended for. Peter Hoddie's phone was ringing every few minutes for the last three days before the Fayuh from people who had heard about it and wanted directions.

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6 AUGUST 1986

TO: HOWIE ROSENBERG
19 7TH AVENUE
FARMINGDALE NY 11735

TERRIE MASTERS
148 SO. MAPLE DRIVE
BEVERLY HILLS CA 90212

PLEASE PROMULGATE

Dear Howie & Terrie,

I have finished gathering this information that I hope will be of some help to all those who have been cheated by Home Computer Journal aka 99'er. The information was obtained both first hand and by several sources reporting their results, so it is a composite.

It seems that at the same time HCJ was sending out their "postcard" offer to subscribers, they were also closing down and dissolving Emerald Valley Publishing. The new company, composed of all the very same people, is called something like Computer Technology Publishing. Call them to complain about what they did to TI owners and they'll tell you they are not liable for anything since Emerald Valley Publ. is no more. They will refuse to talk to anyone further.

The district attorney in Eugene, Oregon has received enough complaints that they have begun an investigation. They are interested in hearing from any and all complainants about HCJ. They have exerted pressure on HCJ so that a few people have actually gotten their money back on unfinished subscriptions. To strengthen the case against HCJ, however, they need to hear from "damaged parties" or they will be helpless. Anyone who was cheated by HCJ is strongly urged to contact:

DISTRICT ATTORNEY
CONSUMER RELATIONS
400 LANE COUNTY COURTHOUSE
EUGENE OREGON
503-687-4261

If people will just take a few minutes of their time to let them know about their personal complaints, maybe the scam can be ended permanently. Please pass this information along to as many people as you can. IMPORTANT - all complaints should be leveled against Emerald Valley Publishing Co. aka HCJ, etc. etc.

As always, thank you for your support and concern for TI owners everywhere.

July 2

NEW!

THREE FROM ASGARD...

Artist Companion

Now, from the makers of the highly acclaimed GRAPHX Companion (see review in the Sept. '85 issue of MICROpendium) a companion product for the latest advance in 99/4A graphics, TI-Artist. All others aside, only our companion features art work from some of the best artists in the TI-99/4A world - Warren Agee, Chris Bobbitt, and many more fine craftsmen. Only our companion features not only the best art for GRAPHX (including the winner of the MICROpendium graphics contest) but also a collection of all new art work designed specifically for TI-Artist. Finally, our companion is also the least expensive available, only \$7.00 for a two-disk package. Requires TI-Artist Version 2.0

\$7.00

Recipe Writer

Now available, the ultimate kitchen aid for the TI-99/4A! This useful utility for home-maker and chef alike is written entirely in the Forth language. Not only is it blindingly fast, it is also easy-to-use with one-touch menus and full prompts in English, not computer-ese. Its many powerful functions allow easy recipe entry and editing, printout and organization. Included are options for easily converting recipes to different serving sizes, and for printing stored recipes on index cards as well as regular paper. Ideal for maintaining a collection of recipes without messy, unorganized pen and paper! Requires Extended BASIC, 32K and a disk drive.

\$12.00

Quick Dialer

At last, an easy-to-use automatic telephone dialing program designed for use with popular terminal emulator programs such as FAST-TERM and P-TERM! Store up to 100 names and numbers in a single directory file for dialing at the touch of a single key. Features automatic re-dialing if a number is busy, full name and number editing options as well as complete print and display functions. The package includes a pre-written version for use with FAST-TERM, an easily modified generic version for other TE programs, and extensive documentation. Great for use with CompuServe Source, and local BBS systems. Requires Extended BASIC, 32K, disk and a modem.

© 1986 - Asgard Software

\$10.00

Asgard Software POB 10306 Rockville, MD 20850

T.O.D. EDITOR

The TUNNELS OF DOOM cartridge is perhaps the ultimate adventure for the TI-99/4A. It's three-dimensional graphics and adventure action are unparalleled by any other software for the TI Home Computer. However, until recently, the avid player was limited to only the two games this cartridge came with. Now, for the first time ever, you can create your own games for this module with ASGARD SOFTWARE's TOD EDITOR.

This high-quality, menu-driven utility program requires no programming knowledge or skill whatsoever, yet the user can create interesting games as complicated as desired almost immediately. TOD EDITOR is so easy to use you will be able to write your own quests soon as you open the package.

You can create your own adventures easily and relatively quickly by either encoding your favorite fantasy games and books, or by drawing on your own fertile imagination. With TOD EDITOR you can modify virtually every aspect of your quest, from the graphics to the monsters, to the treasures to the spells at the touch of a key. Games created with this useful utility can be freely traded, exchanged or sold without the bother of licensing agreement. ASGARD SOFTWARE will even evaluate your game, free of charge, for marketing potential if you so wish. Imagine becoming a software author without even knowing a programming language!

TOD EDITOR includes a free sample game created with this program by its author John Behnke, a backup disk for the program, and an extensive user's guide and tutorial for learning and using TOD EDITOR. The program requires an Extended BASIC cartridge, a 32K memory expansion device, and a disk drive system. The sample game and the games created with this program additionally require the TUNNELS OF DOOM cartridge by Texas Instruments Inc.

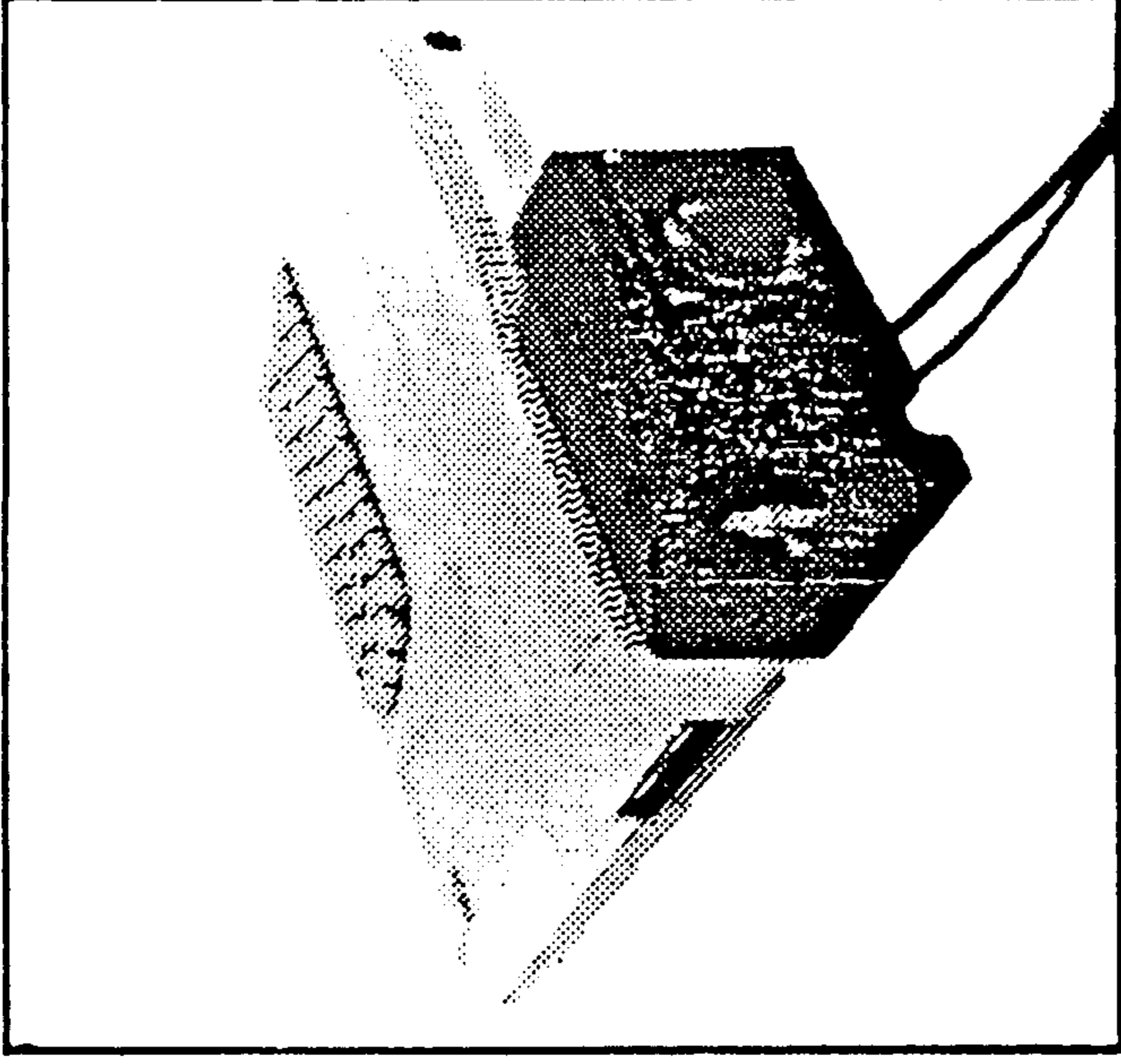
\$20.00

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NEW FOR THE TI, CONSOLE COOLER



Does your 99/4A "BOMB OUT" after use? Could be you have a heat problem. The normal operating temperature is about 100°F. If you are using the GRAMKRACKER or WIDGET the problem could be worse. Temperatures can exceed *112°F. With the CONSOLE COOLER, temperatures stay normal. The CONSOLE COOLER uses a 3 inch muffin fan in a fiberglass enclosure to direct cooling air over the power supply through the vents behind the console. And it's quiet! If you're not satisfied, return it within 30 days in its original condition for your money back. Send \$24.95 + \$2.50 shipping to:

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*Actual test results. 73°F room temp.

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Waterloo, Iowa 50703

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DEALER UPDATE
To all Dealers

The big news is the new MYARC Computer. It is a single card that plugs in the Texas Instruments PHP1200 Peripheral Expansion Box. It comes with an IBM PC type keyboard with a numeric keypad. The central processor is a 12MHZ TI9995. Included is an enhanced BASIC which is miles ahead of the 99/4A in speed, graphics capability, 80 column business capability, you name it. It is the computer we expect will provide the new spark and interest we all like to see in the Texas Home Computer following. We now have a dealer price -only \$360.00.

The \$360.00 price includes the computer card and keyboard which is connected to the back with a phone cord type cable. The cable is also included in the price. You can think of it as replacing the number one card in the Peripheral Expansion Box.

Another very important feature is the computer's compatibility with most TI-99/4A software. The vast majority of your customers' modules (cartridges) will be able to be transferred to disk and run on the new computer via disk. Most present disk software will also be able to be used. It will use not only use the customer's present Peripheral Expansion system but also his present disk drive(s) and either the MYARC or TI Disk Controller and RS232 cards. The 128k, 256k and 512k Memory Expansions by MYARC will require an update to add to the 640k memory of the computer.

When? Even when a unit is in production there are parts shortages and other delays. With experience these can be estimated and a close shipping date given. When a new computer is being developed the improvements made in one area often necessitate making changes and checking other areas extensively. With this type of development no exact shipment date can be given. But now it is close - weeks, not months, away. It is expected that more people will want this computer as the first to have it than will be initially available. Firm orders will be allocated by date of order. After all firm orders are filled all the dealers who have left their name on our notify when ready list will all be notified at one time. Then it will be on a first come basis. The only exception would be where a dealer orders a significantly larger number of computers than would be typical of his regular business with us, in which case a partial shipment would be made initially with the rest to follow.

Another product is the MYARC Extended BASIC Version 2.11 which is an enhanced version of BASIC providing increased speed, integer arithmetic, and margins (a form of windowing). Bit map graphics capability with draw and fill type commands that are very user friendly are built right into the BASIC language. When compared to TI Extended BASIC the run and program listing speeds are typically three times as fast as regular BASIC. When measuring speed improvements there is a large variance from program to program in which sophisticated and complex programs show the most improvements and generally simple benchmarks show the least. This BASIC makes the TI 99/4A into a 128k BASIC operating system - giving more space for both program and variables. The BASIC itself is part of the 128k. It is an excellent program for those who will not be getting the new computer immediately or those who want a preview of many of the new computer's BASIC features. It requires a Myarc 256k, 512k or previous 128k Memory Expansion card. Unless purchased as a package the Memory Expansion card will require an EPROM swap. As may be seen on the enclosed price list there is a cost savings in purchasing the packages. However, the packages are a matched set and you can not sell one customer the Extended BASIC and another the Memory Expansion.

The MYARC 128k is now replaced by the 256k Memory Expansion. This gives the user an additional 128 print spooler and RAM disk. This is especially useful for those using it with the MYARC 128k BASIC - before it would have taken the entire 128k card memory.

Significant price reductions have been made on the 512k memory as well - see the attached price sheet. Remember, the MYARC memory is the memory expansion that offers more than just more memory. It includes a fast, efficient set of built-in software for a print spooler, RAM disk, disk emulation by drive number and a memory that enables the use of the MYARC 128k BASIC operating system.

Another relatively new item is the MYARC quad density disk controller. It provides for automatic reading of any TI disk - single or double sided, single, double or quad density - and will do all six combinations automatically. Just put your disk in the drive; you can read or write to it without specifying the number of sides or density. The only time this has to be specified is when the individual disk is first initialized. In multiple drive systems, different types of physical drives may be intermixed with any number up to four drives.

We recommended that where a quad drive is used, a dual density drive be installed as well for most TI users. The quad density drive we sell is the TEAC FD55GFV. It can read and write in any of the single, dual or quad densities on either single or double sided disks. In a non technical explanation, it writes in very fine lines to put all the extra data on the same 5 1/4 disk. While the TEAC FD55GFV can read this data, your customer may have a friend whose original TI drive can't. Hence the need for a dual density drive, the TEAC FD55BV, to write disks his friend can read. The TEAC FD55BV can write data that can be read by either the FD55GFV or the original TI single sided, single density drives. Please check the new lower prices on the enclosed price sheet.

Another item worth some attention is the MYARC Mini-Peripheral. Because of the greater flexibility of the TI PHP1200 Peripheral Expansion system, we feel that it is the best value for most end users. However, for those on a more limited budget, the Mini-Peripheral offers an excellent alternative. It provides a dual density, double sided disk controller, and internal space for mounting either one or two half high disk drives, an RS232 with both parallel and serial ports, and memory expansion (either 32k or 128k). The equivalent system shown in the most widely circulated TI/994A catalogs requires a separate disk drive housing with its own power supply and another transformer similar to the one used with the main computer for use with the expansion unit. With the MYARC system these are all combined in one compact unit. The MYARC Mini Peripheral offers the advantage of a flexible cable to the computer which allows more convenient placement and movement of the keyboard. Another advantage is the ability to have 128k of memory as a choice. There also appears to be a price advantage in the MYARC system. Using retail prices on the alternate system from three of the larger TI-99/4A mail order dealers, for 1/2 high drive systems, one offered a single drive system for 499.95 and dual drive system for 619.95, another a single drive system for 499.00 and the other a dual drive system for 539.95. Especially considering the advantages of the MYARC system, this system could be used to offer a good value to your customers at a competitive price. See the attached price sheet for dealer pricing. This unit should not be overlooked; but for most dealers should be bought as sold rather than stocked in inventory.

The enclosed price list shows the current retail price we have in our True Value Hardware store along with the dealer price. The retail price is shown for your reference only; each dealer should set his own price based on his market, particularly considering the wide range of services offered by the various TI99/4A sales outlets.

PART NO	DESCRIPTION	RETAIL	DEALER
MYR001	5 Meg Winchester	895.00	799.95
MYR002	WDS10/M Winchester	995.00	899.95
These are complete systems - the original MYARC systems.			
MYR010	RS232 Card	79.95	65.00
MYR011	Disk Controller	149.95	119.00
MYR012	Quad Controller	189.95	149.00
MYR015	32K Memory Expansion	109.95	88.00
MYR016	256K Memory Expansion	199.95	162.00
MYR017	512K Memory Expansion	249.95	210.00
MYR021	Upgrade 32K/256K	119.95	89.95
MYR022	Upgrade 32K/512K	179.95	139.95
MYR023	Upgrade 128K/256K	65.95	49.95
MYR024	Upgrade 128K/512K	129.95	99.90
MYR025	Upgrade 256K/512K	65.95	49.95
MYR030	Quad Disk Upgrade	49.95	40.00
MYR041	Mini Peripheral	379.95	305.00
MYR042	128K Mini Peripheral	399.95	325.00
MYR051	Mini Peripheral 1DDDS	469.95	404.95
MYR052	Mini Peripheral 1DDDS/128K	499.95	424.95
MYR053	Mini Peripheral 2DDDS	575.95	489.95
MYR054	Mini Peripheral 2DDDS/128K	599.95	509.95
Note MYR051 through MYR054 have TEAC FD55BV drives included.			
MYR090	Extended Basic	69.95	55.00
MYR091	256K & Extended Basic	249.95	197.95
MYR092	512K & Extended Basic	299.95	245.95
MYR100	Geneve Computer		360.00
TEAC	Disk Drives & Sets		
TEA001	DSDD FD55BV 1/2 high Drive	109.95	95.95
TEA010	TEA001, Internal Cable & Filler Plate	129.95	109.95
TEA011	TEA001, Ext Case, Cable, Filler Plate	189.95	155.95
TEA012	2 TEA001, Internal Dual Cables	249.95	209.95
TEA013	2 TEA001, External Dual Cables	309.95	259.95
TEA020	FD55GFV Quad 1/2 high Drives	149.95	129.95

Note:

Packages TEA010 through TEA013 include necessary mounting hardware (screws for all units, spring clips for filler plate on TEA010 and TEA011 or mounting straps and Y power cable for dual drive units TEA012 and TEA013). The remote units TEA011 and TEA013 also include the remote case & power supply.

The TEA020 has both jumper settings for quad density and the higher 1 meg plus recording capabilities of the IBM-AT type drive. Quad density is 760K or 2880 sectors when used with the TI99/4A and the MYARC quad density disk controller, MYR012.



VID.86 BY BILL HARMS

Here is a program I wrote (with a little help from my friends) for anyone to use on the TI-99/4A. It is a Public Domain program with no copyright. I enjoyed writing it and did learn a few things.

It's called > FAS-Tran < for fast checkbook totals (or or any other transactions) where you want totals on each "category" or type of item. It's good for budgeting and income tax totals. It's a utility for many related jobs.

You can set-up your own categories easily or use the defaults. Then enter transactions. Data entered is: Check Number (or Transaction No.), Date (any 6 digits), Category Code (a 2 digit #) and the amount (usually dollars). The data entry is fast. Since the checks file is updated in the Append mode, you can recap the checkbook weekly, or monthly or whenever and get totals of all-to-date. There is a net pay explosion technique to auto. enter recurring amounts. Or you can use the D/V-80 file conversion option, if your data is already available on disk.

Then you can get different types of listings of all the checks in that "file". You can sort the trans. by category, date, or trans.# FAST. There is a printout or display or D/V-80 file of the TOTAL amount on each of the CATEGORIES in that "file" for all checks/trans.

Totals can be saved in SYLK format to load into a Multiplan spreadsheet.

The program has a SPREADSHEET TYPE OPTION. The monthly totals of trans. by category type, ie. meals-out or cloths can be loaded into a 12 month matrix/file that will give you totals for all months, year-to-date actual, year-to-date budget, annual total and current month/year-to-date variances to budget. There is a nice on-screen view of all amounts and the totals are recalculated when an amount is entered.

The current limits of the program are 99 categories and 350 trans. (for the assy lang. RAM sort of trans.) or your disk capacity (for the DISK sort of trans.), but you don't have to use the sorts.

The program needs Extended Basic, one disk drive and memory expansion. A printer is helpful. The programs come on 2 SSSD disks or 1 floppy or 1 DSSD disk.

Please let me know of any comments on it you or others have, or of any Bugs found in it.

William Harms, 6527 Hayes Court, Chino, Calif. 91710

99'FEST-WEST'86

FIRST ANNUAL L.A. 99/4A EXPO
Hosted by
The Los Angeles 99er Computer Group
MARCH 1 & 2 1986
Mezzanine Level
SHRINE EXPOSITION HALL
700 WEST 32nd STREET
LOS ANGELES, CALIFORNIA
TWO FULL DAYS 10 AM-6PM

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VENDORS	FAIRWARE
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SOCIAL EVENING with DINNER & DOOR PRIZES MARCH 1
ADVANCE RESERVATIONS NECESSARY
MEET THE MOVERS AND SHAKERS OF THE COMMUNITY
SEE THE LATEST INNOVATIONS IN HARDWARE AND SOFTWARE
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ADVANCE ADMISSION \$4.00 for BOTH DAYS, \$5 AT DOOR WITH COUPON BELOW
For information regarding Hotel location, Rates, and Tours contact,
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PLEASE INCLUDE A STAMPED SELF-ADDRESSED ENVELOPE
99'FEST-WEST'86 is in conjunction with Computer Sellathon & Expo

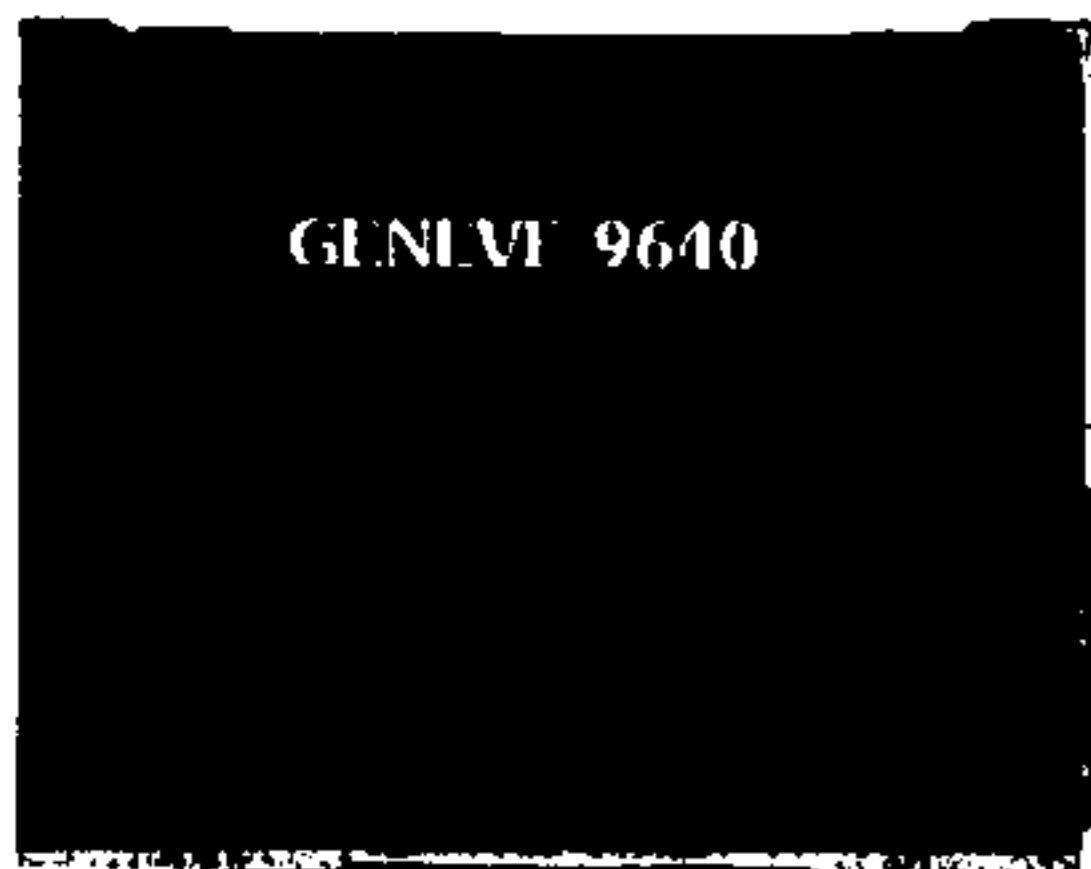
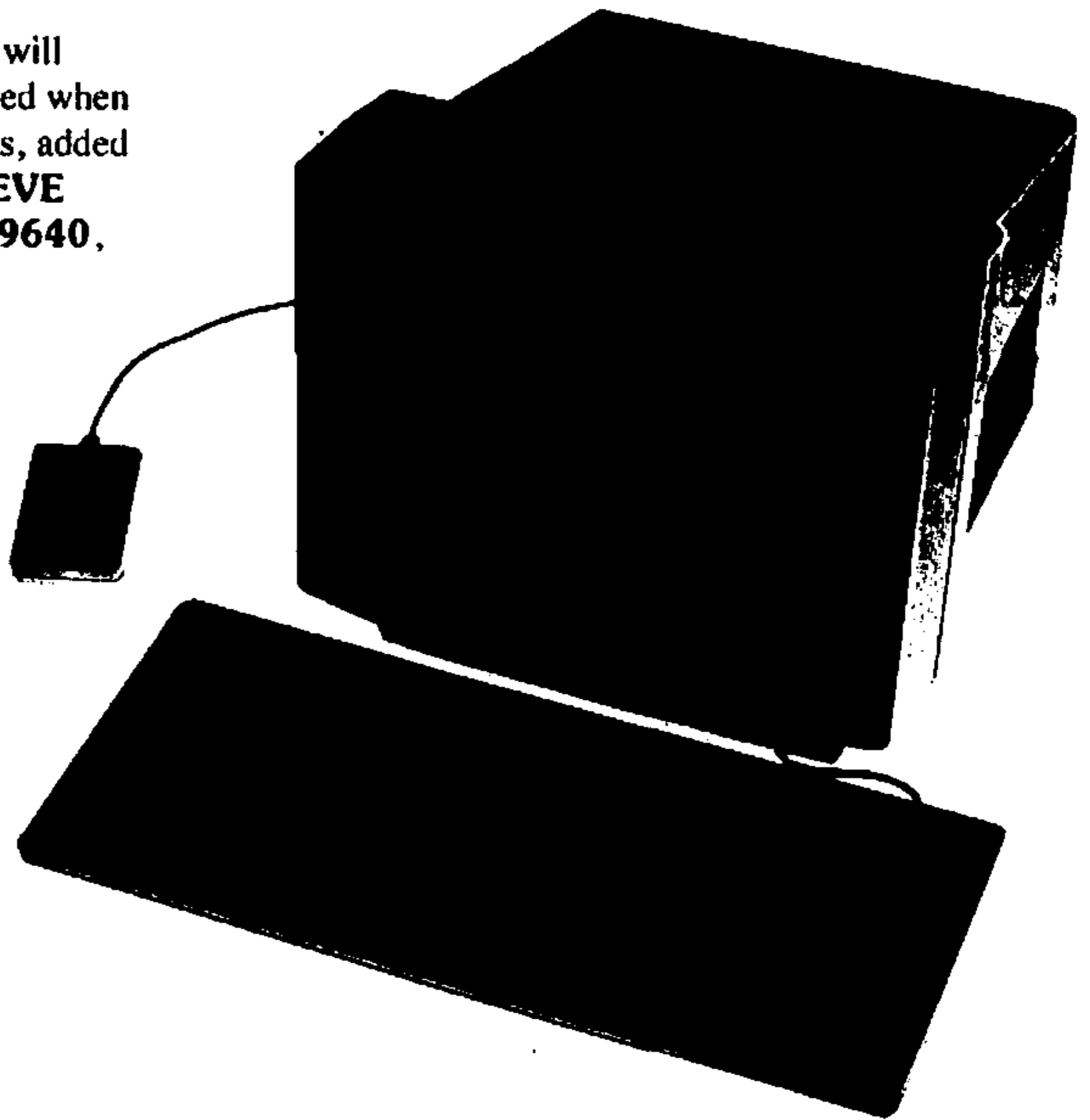
| 99'FEST-WEST'86 DISCOUNT COUPON |
| SAVE \$1 - DUPLICATION ACCEPTED |
ONE PER PERSON

The **GENEVE 9640** by MYARC, Inc.

It was a long time coming, but we think you will agree, the wait was worth it. MYARC listened when you told us what you wanted, took your ideas, added many of our own, and engineered the **GENEVE 9640**. Take a close look at **The GENEVE 9640**, and see, if you don't agree.

The **GENEVE 9640** has composite video output, to connect to a TV or computer monitor, like the T199/4A, as well as both high resolution (512 x 212 pixel's), and very high resolution (512 x 424 pixel's) RGB video output. In addition, up to 256 colors can be displayed on the screen at one time.

A PC style keyboard with input buffer is included with the **GENEVE 9640**. The RGB High Resolution Monitor with Sound, Monitor Cable, Mouse, and Enhanced Keyboard are optional.

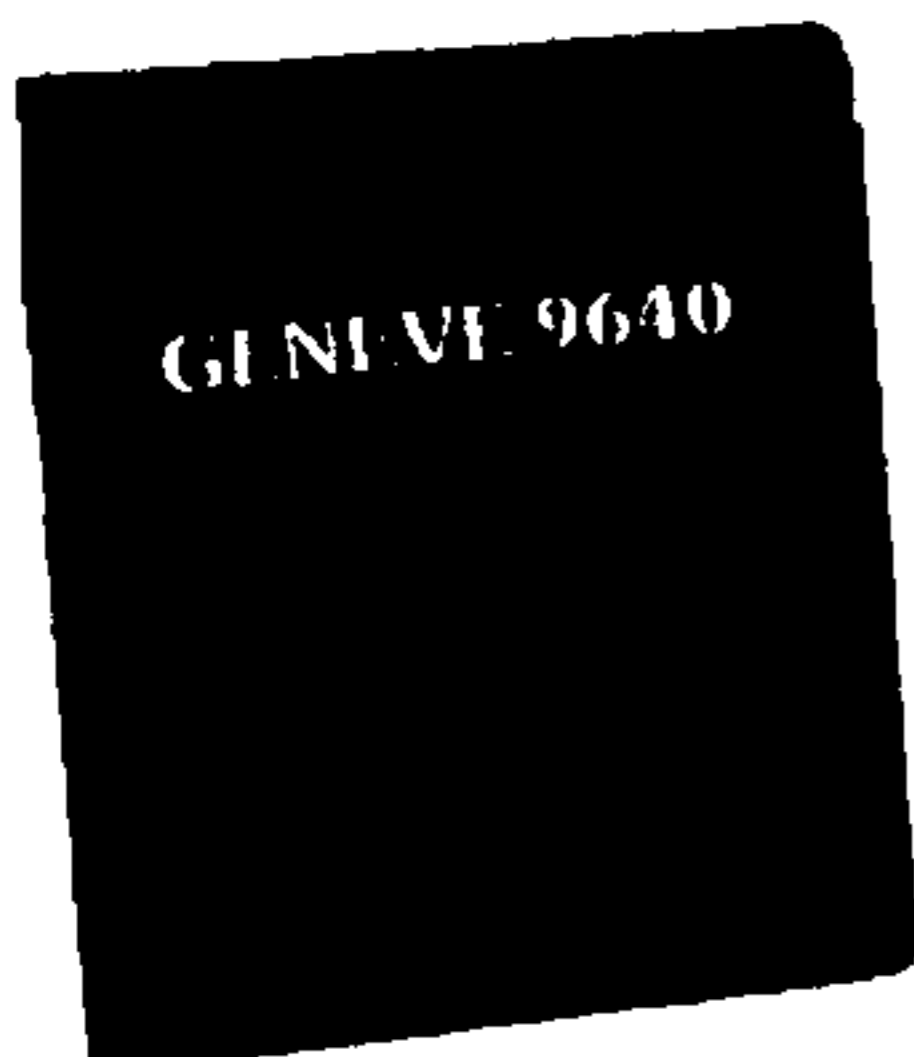


T.P.F.R. required



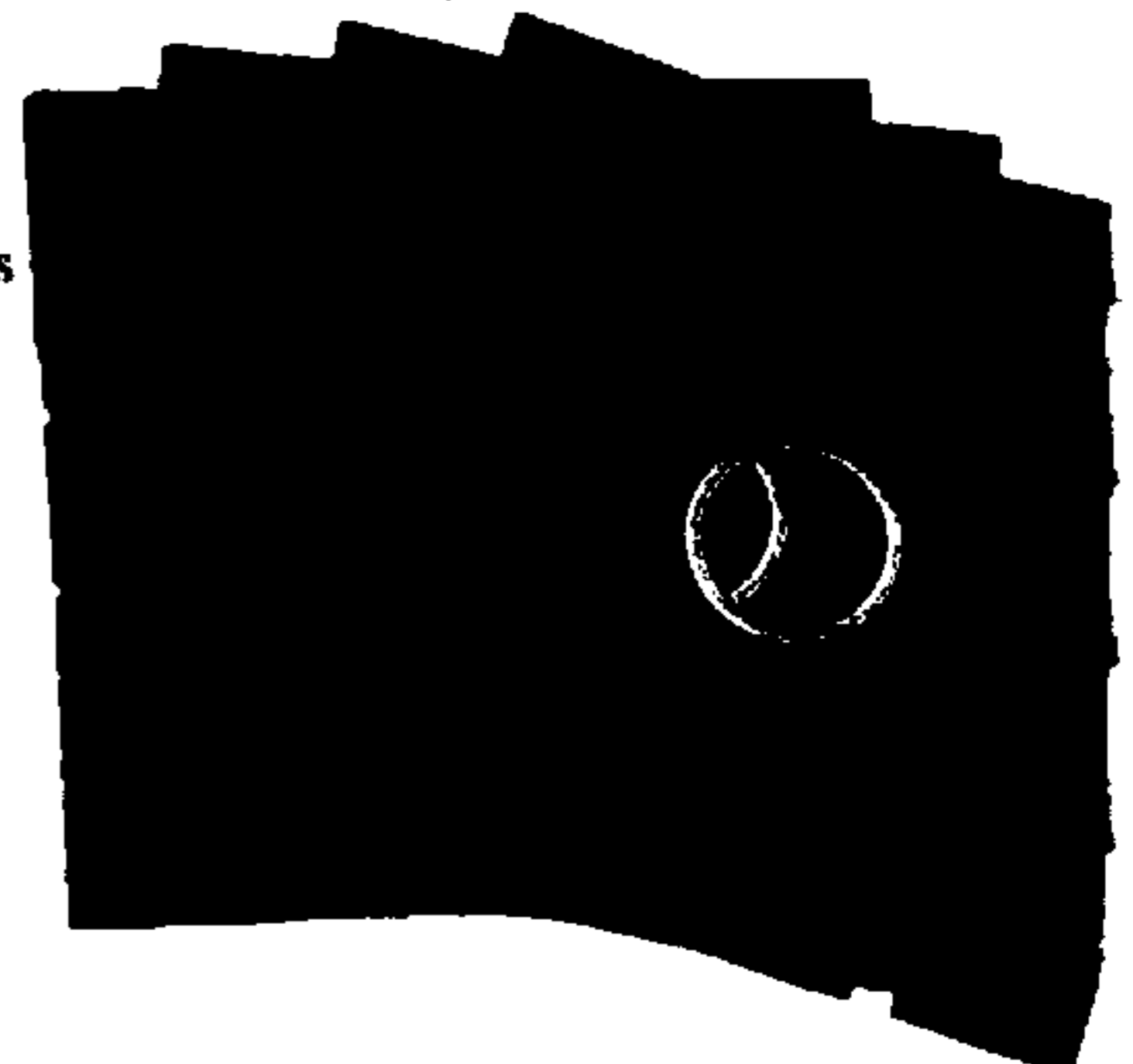
The **GENEVE 9640** comes in a protective shell ready to plug into the TI PEB. Connections are provided for Monitor with audio, Joy Stick, Mouse, and Keyboard.

An outstanding 350 page manual with sections covering the introduction to and setup of the **GENEVE 9640**, using M-DOS, and Advanced Basic.



The **GENEVE 9640** comes with 6 pieces of software:

1. Cartridge Saver which allows the saving of most cartridge software to disk, then loading and running the saved software from disk.
2. Advanced Basic with new commands like draw and fill, the increased operating speed you always wanted, plus 32, 40, and 80 column display, and yes, it is compatible with TI BASIC and EXTENDED BASIC.
3. The newest version 4.21 PASCAL run time to allow the loading and running of standard PASCAL software up to the full available memory.
4. TI Word Processor upgraded to 80 columns, increased operating speed, plus Edit and Format reside in memory at the same time.
5. Microsoft MULTIPLAN upgraded to 80 columns, increased memory, and increased operating speed.
6. The MYARC DISK OPERATING SYSTEM.





ANNOUNCING MYARC'S 640K RAM

GENEVE t.m.

MODEL 9640 FAMILY COMPUTER

This unit is without a doubt the most sophisticated machine ever offered in the family and small business area to date. With over a year of design and development, including input from more than one hundred users, this machine has surpassed even our own expectations. Take a moment to review some of the many features that place this computer in a class of its own.

- * 99/4(A) COMPATIBLE
RUNS OVER 100 EXISTING
TI CARTRIDGE PROGRAMS
- * TI-WRITER NOW A FULL
80 COLUMNS

- * 99/4(A) COMPATIBLE
RUNS OVER 95% OF ALL
ASSEMBLY LANGUAGE
PROGRAMS & UTILITIES
- * MULTIPLAN ALSO 80 COLUMNS

LARGER
Standard 640K RAM
2 MEGABYTES Addressable RAM
MYARC Memory Card Compatible
With MYARC 512K Card,
Supplies 1.1 MEGABYTES RAM
IBM TYPE KEYBOARD Included

FASTER
At Least 2 - 3 Times

PHONE TYPE CABLE
Replaces Old Hex Bus Cable

MOUSE SUPPORT

- Separated Function Keys
- Incredible Graphics Capabilities
- Basic 3.0
- Composite Video Output
- RGB Output
- 128K VDP RAM Memory
- 40 Column Display
- 80 Column Display
- Mouse Output Port
- Joystick Port
- Sound Compatible & Expandable
- Speech Included
- Compatible with Existing Peripheral Cards*
Disk Controllers* (MYARC, TI, Corcomp)
RS232 Cards* (MYARC, TI, Corcomp)
MYARC Memory Expansion Cards Add Directly to RAM (modification required)
- True Hardware Utilities
Sprites, Fills, Lines, Data Moves
- TI 9995 Processor Chip - 12 MHz
256 Bytes ULTRA High Speed on Chip RAM
Pre-fetch on Instructions
Post-store on Instructions
- More RAM Memory than any machine in its price class

For further information, contact your nearest dealer.

If unknown, contact MYARC (201) 766-1700 for dealer information.



Thank you for purchasing the new GK UTILITY I diskette.

We believe that you will be quite pleased with all the new enhancements that Danny Michael has added to Extended Basic and the Editor/Assembler Module.

The DOCUMENTATION for installing and using the new enhancements is on the GK UTILITY I diskette.

1. Load Extended Basic into the Gram Kracker.
2. Select Extended Basic from the menu and then:
3. RUN "DSK1.DOCPRINT" with the GK UTILITY I diskette in drive 1.
4. This program will prompt you for the necessary items and print out the documentation to your printer.
5. Follow the instructions under MAKING THE MODIFICATIONS to install the new utilities.

Have Fun!

INTERN[®] TI99/4A ROM and GROM Listings w/ Commentary by H. Martin plus GPL Directions

THIS BOOK IS THE KEY! INTERN ("Inside") the TI 99/4A reveals the hidden secrets of the 4A. Essential for owners, enthusiasts, programmers, developers or anyone who wants in-depth understanding of how the TI 99/4A works.

Over 200 pages of complete disassembled internal code found in the 4A console. ROM and GROM listings are fully commented with GPL directions explains how the entire operating system functions — including the GPL interpreter. Hidden tricks and tips are discussed along with the commands, format, opcodes and uses of Graphics Programming Language used in the computer.

Starting with the console ROM: address >0000 to >1FFF, this book gives you a detailed look at every secret. Interrupt routines, power-up functions, system Monitor, cassette routines, Basic and Extended Basic interaction and various utility routines. GROM 0, 1 and 2 are also listed and commented in detailed descriptions.

If you've ever wondered why your TI 99/4A acts as it does, what the tricks and hidden features are, where the "blank" spaces exist, why Texas Instruments kept all this information a secret: well, this is your chance!

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GPL Assembler v2.1

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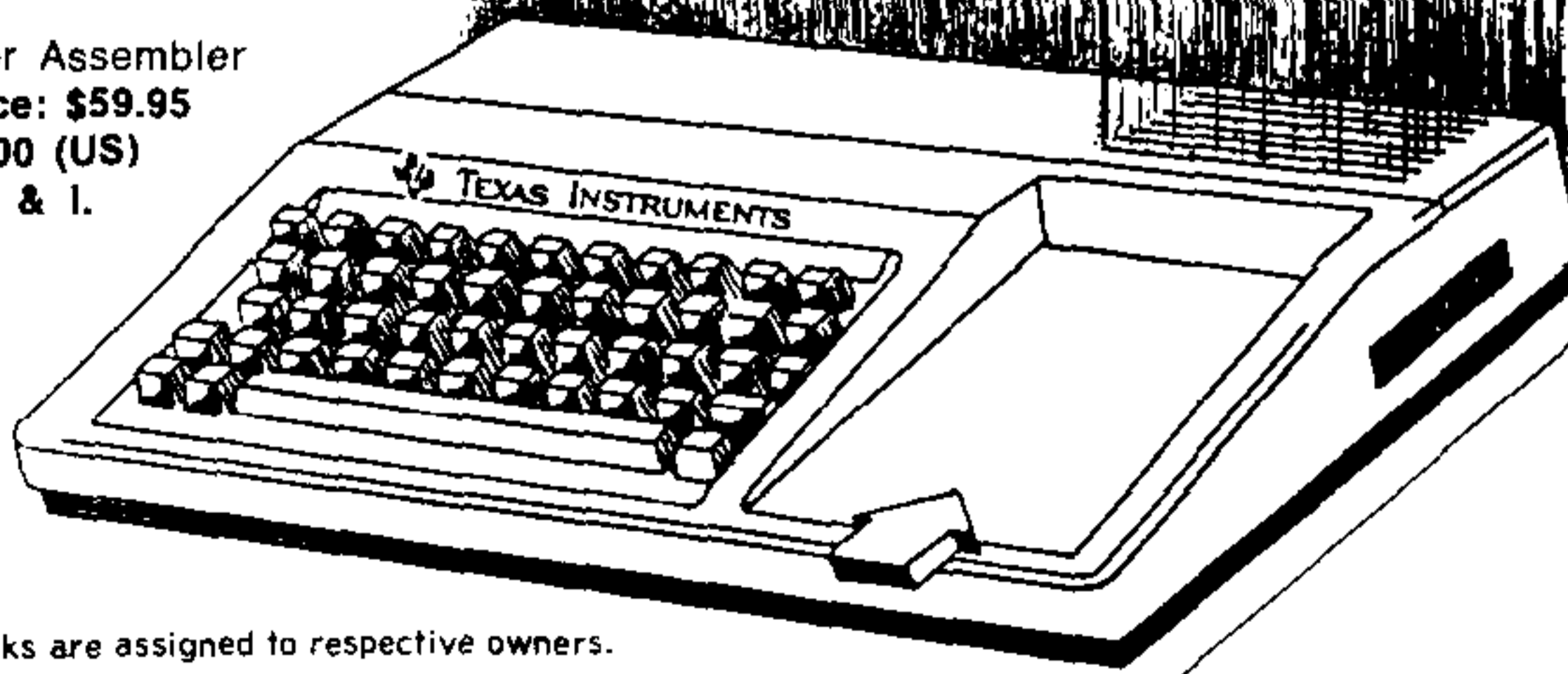
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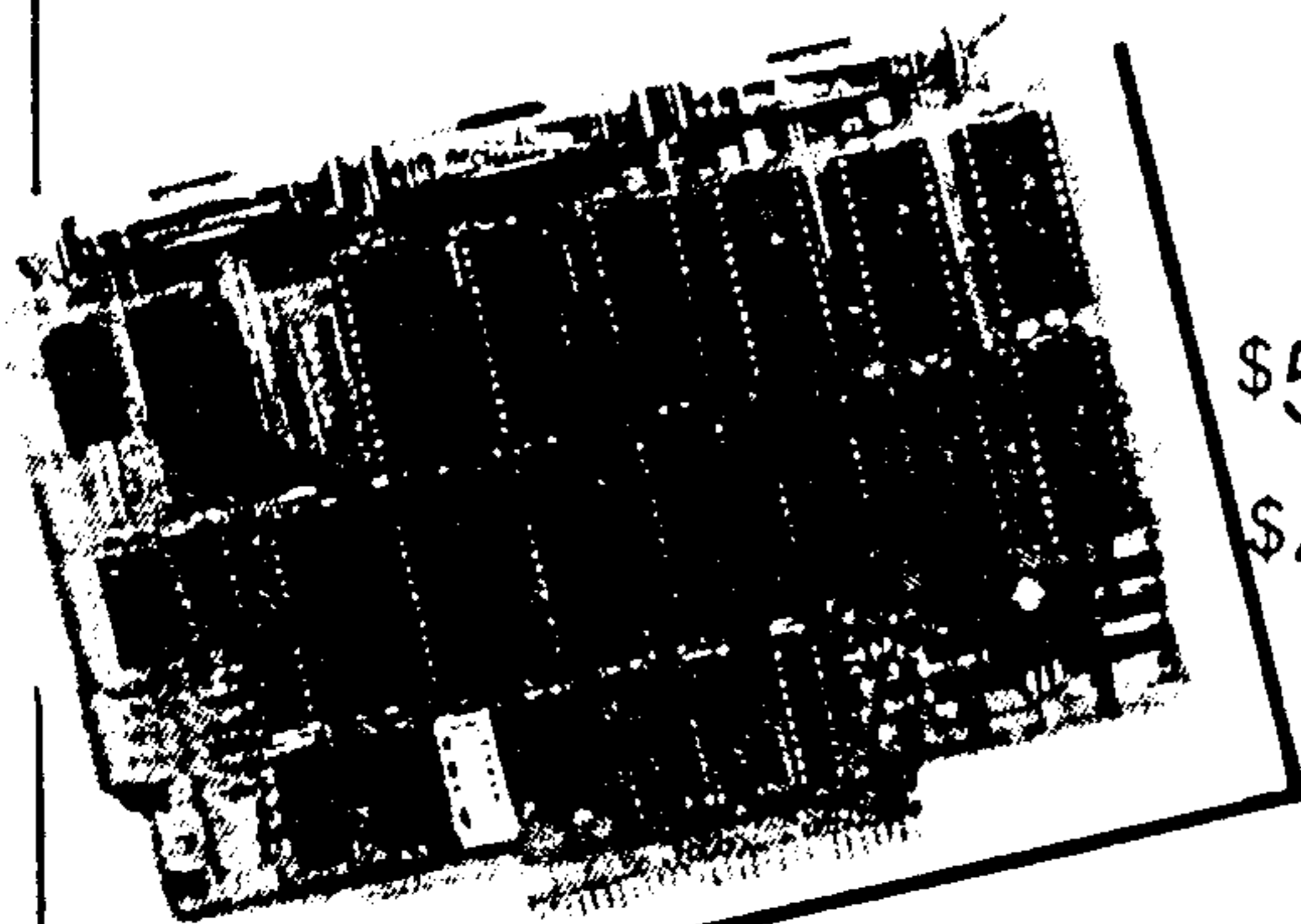
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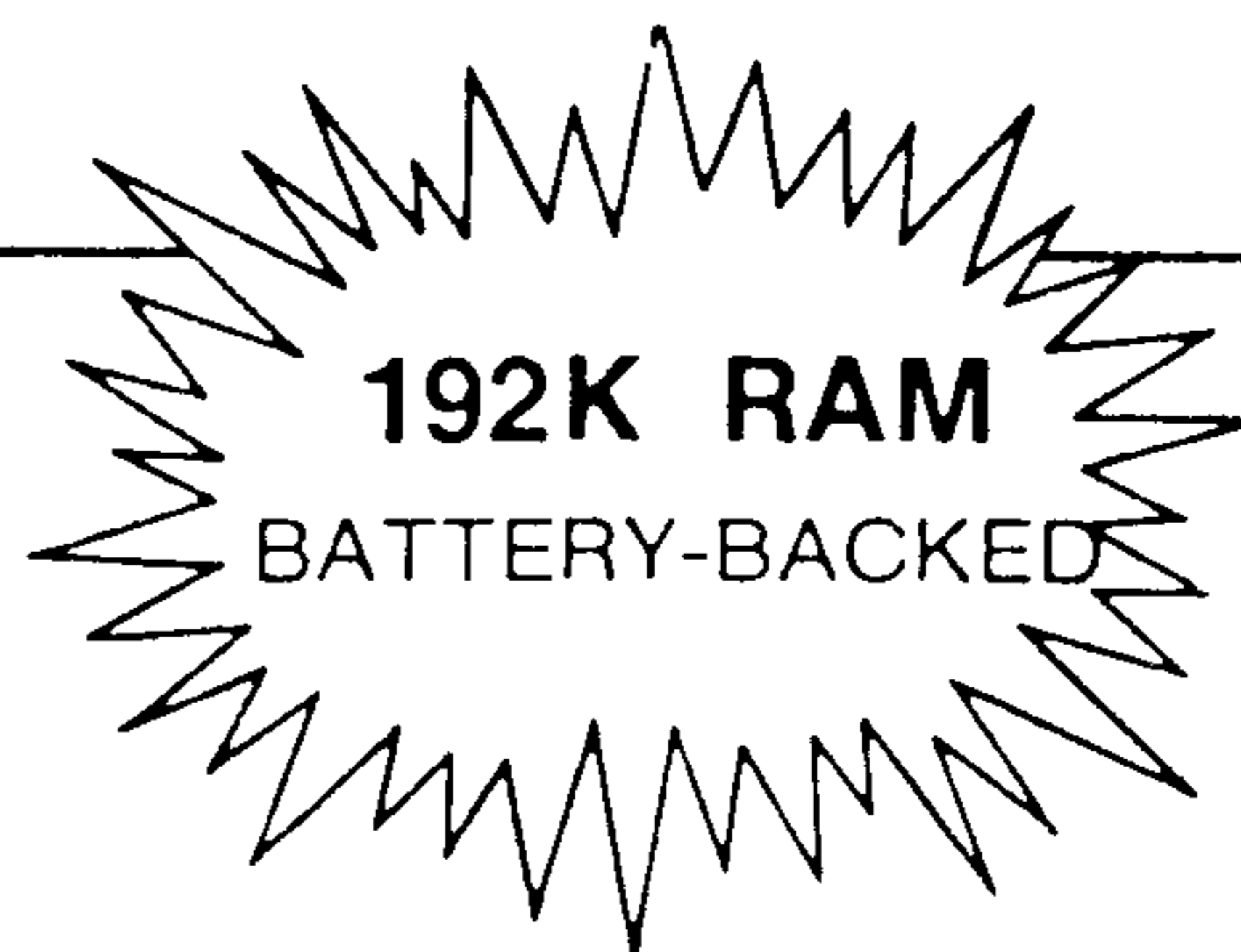


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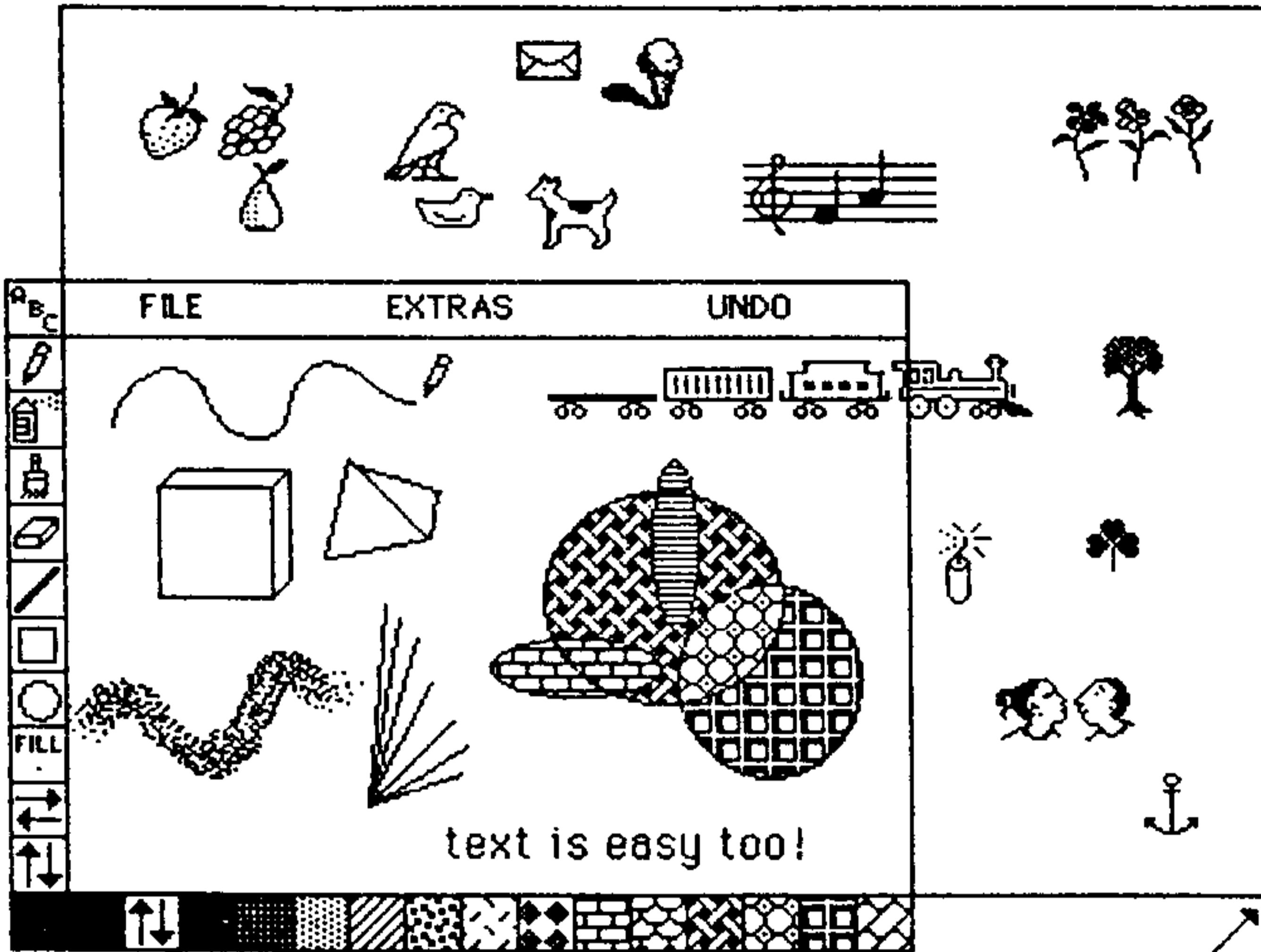
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You must FIRST change three EXISTING lines in the "game" programs of "NMJOY" or "NMKEY" (circled below) but make NO changes to "LOAD".

```
10 CALL MAGNIFY(3) :: CALL SCREEN(2) :: GOTO 30 :: CALL KEY :: CALL JOYST ::  
CALL SOUND :: CALL PEEK :: CALL HCHAR :: CALL VCHAR (H8 :: MAX)
```

```
220 CALL COLOR(10,1,1) :: (DISPLAY AT(7,16):" " :: CALL CHAR(108,E$&"53000061E  
1FFFFFF00000003"&E$&"5340E0F8E4E2E1F1FF7C43FE")
```

```
260 IF Z THEN B=B+Z*10000 :: GOTO 740 ELSE CALL CHAR(108,"FFB1BFA0AFB9B1FFFF  
81E71818E781FFE7B5B5BDBDADADE7E7A5A5BDA5A5A5E7")
```

Next, you must add THREE ENTIRELY NEW lines to "NMJOY" or "NMKEY":

```
272 DISPLAY AT(7,7):"o m l o" :: H8=MAX(H8,BC) :: IF BC<H8 THEN 278 ELSE CALL  
COLOR(10,6,1) :: DISPLAY AT(7,16):H8
```

```
274 FOR X=0 TO 27 STEP 3 :: CALL SOUND(-155,550,X,557,X) :: DISPLAY AT(7,7):"  
:: DISPLAY AT(7,7):"o m l o " &STR$(H8) :: CALL SOUND(-1,4E4,30) :: NEXT X
```

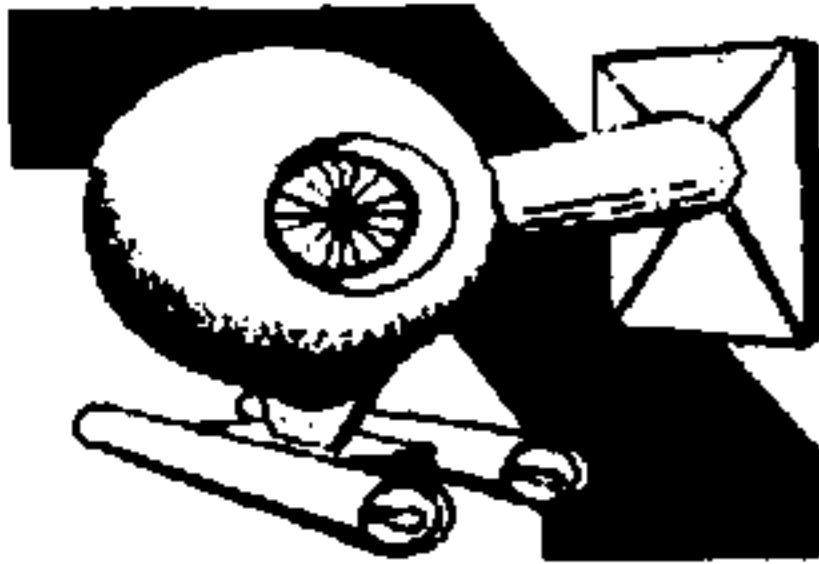
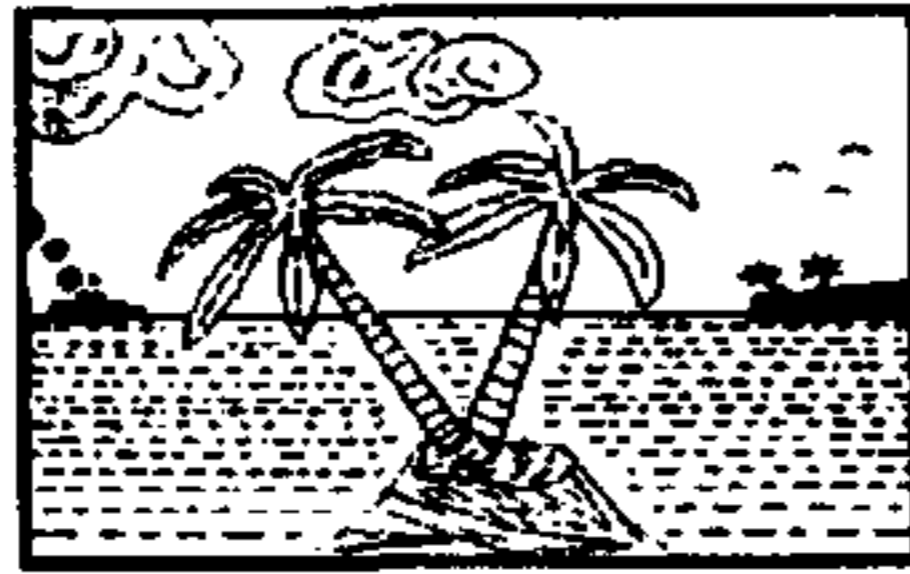
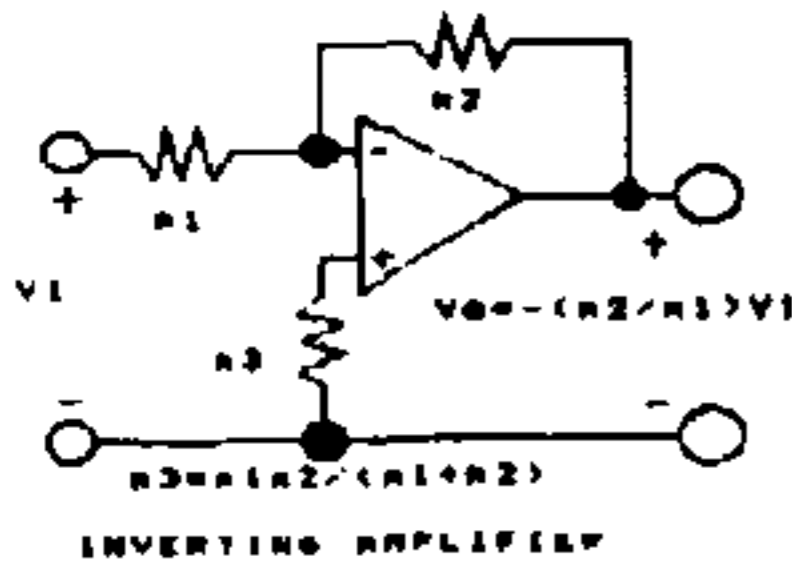
```
278 CALL COLOR(10,6,1) :: DISPLAY AT(7,16):H8
```

That's all there is to it! Remember to SAVE your "altered" program to a NEW disk (with "LOAD") rather than on your "original" game disk. Any comments (good OR bad) you may have about this change, should be sent to the above address and would be MOST welcome. Happy computing!

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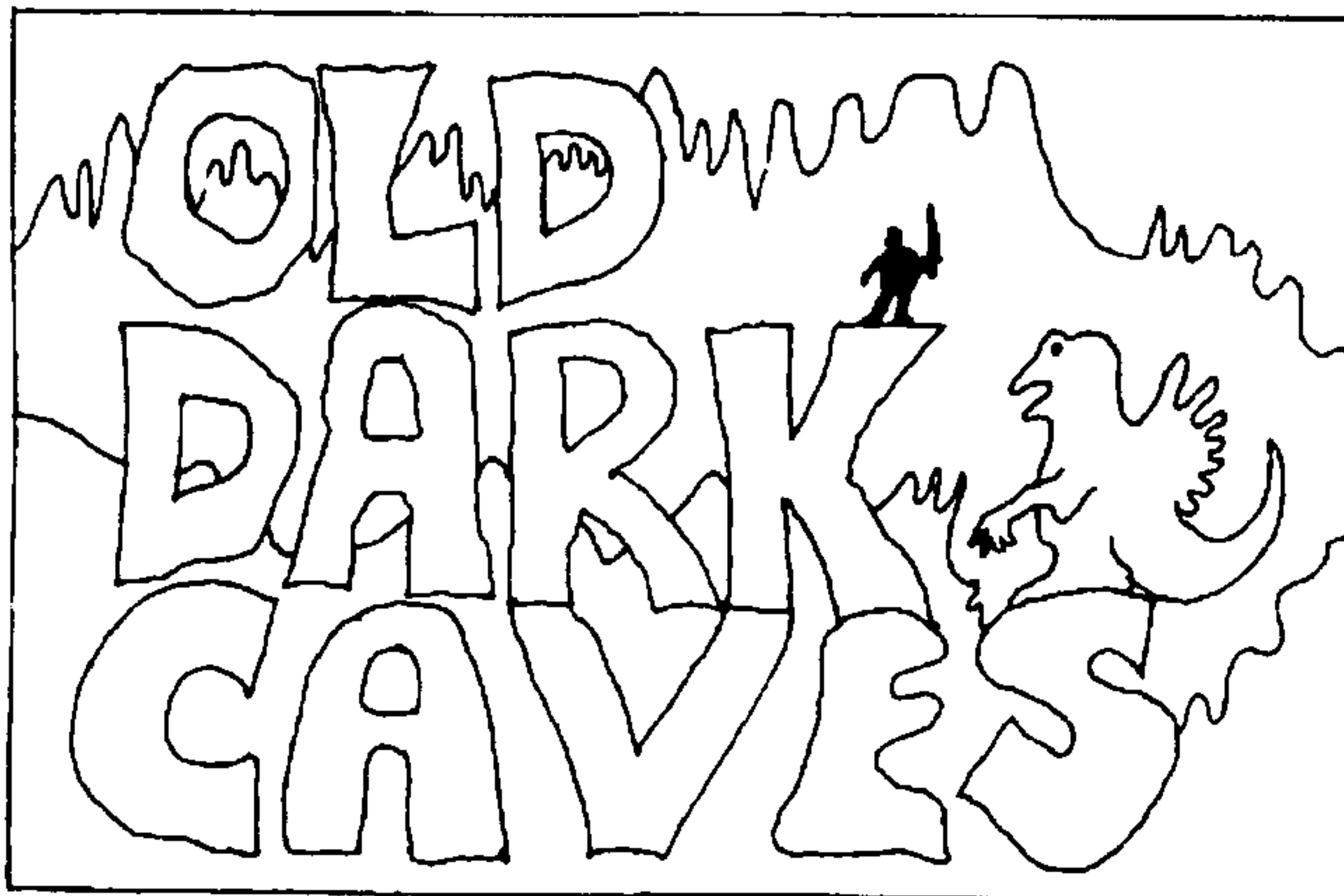
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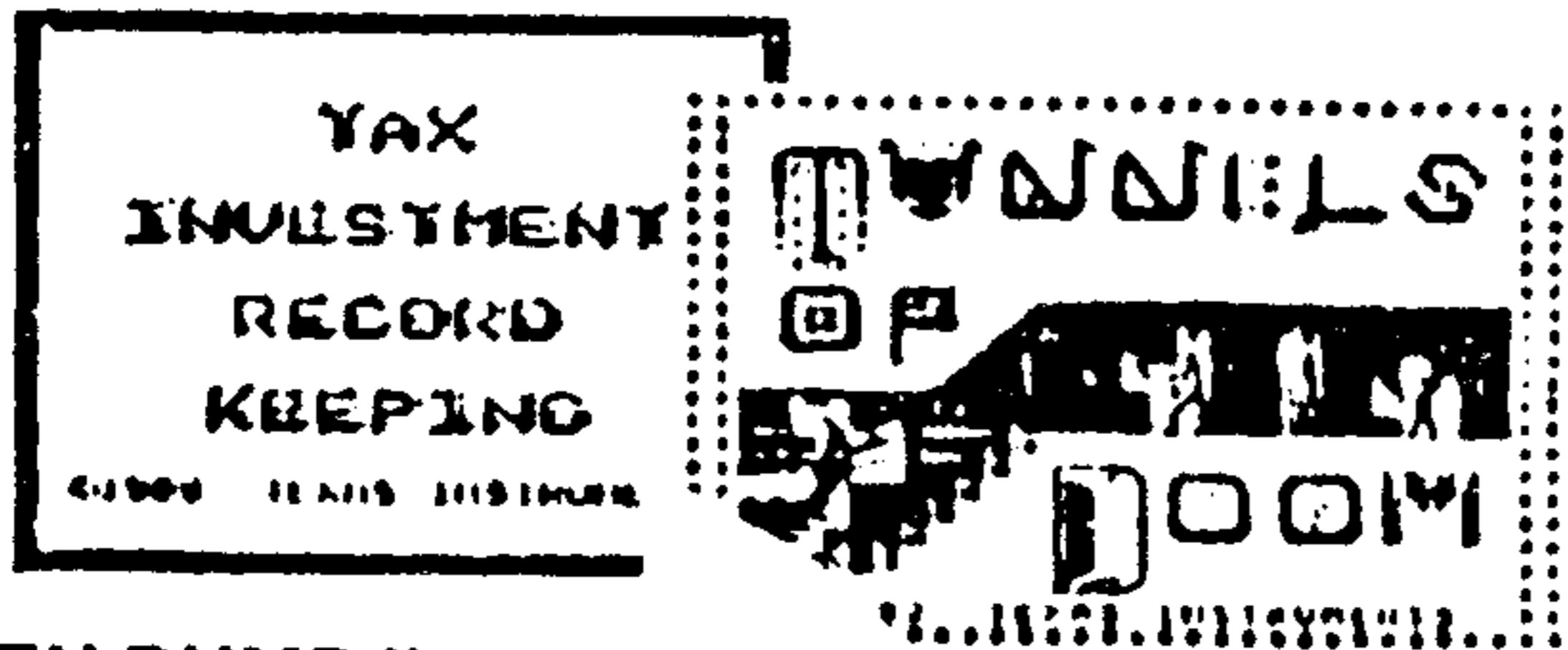


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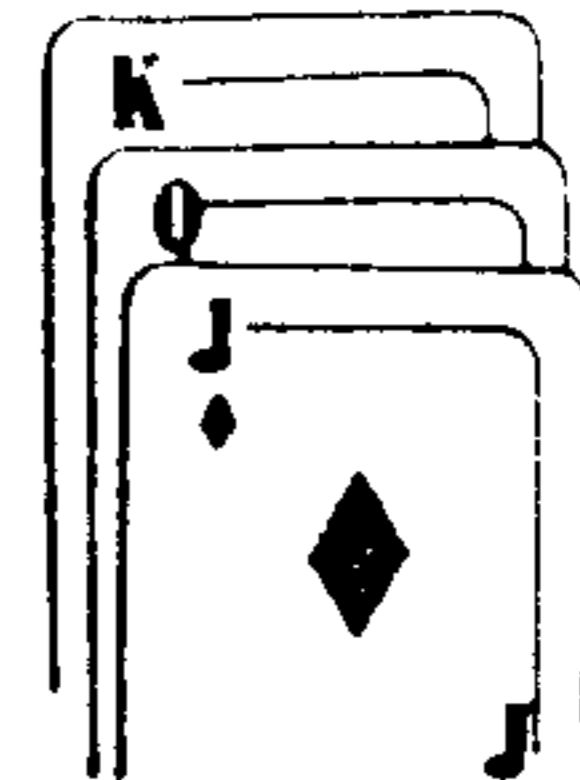
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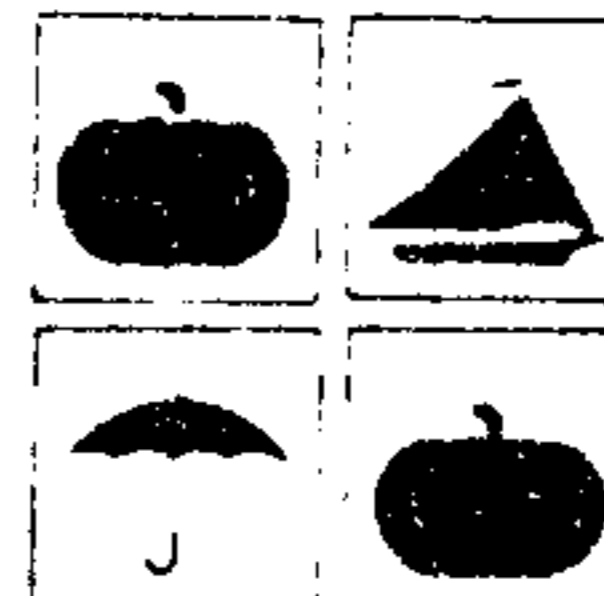
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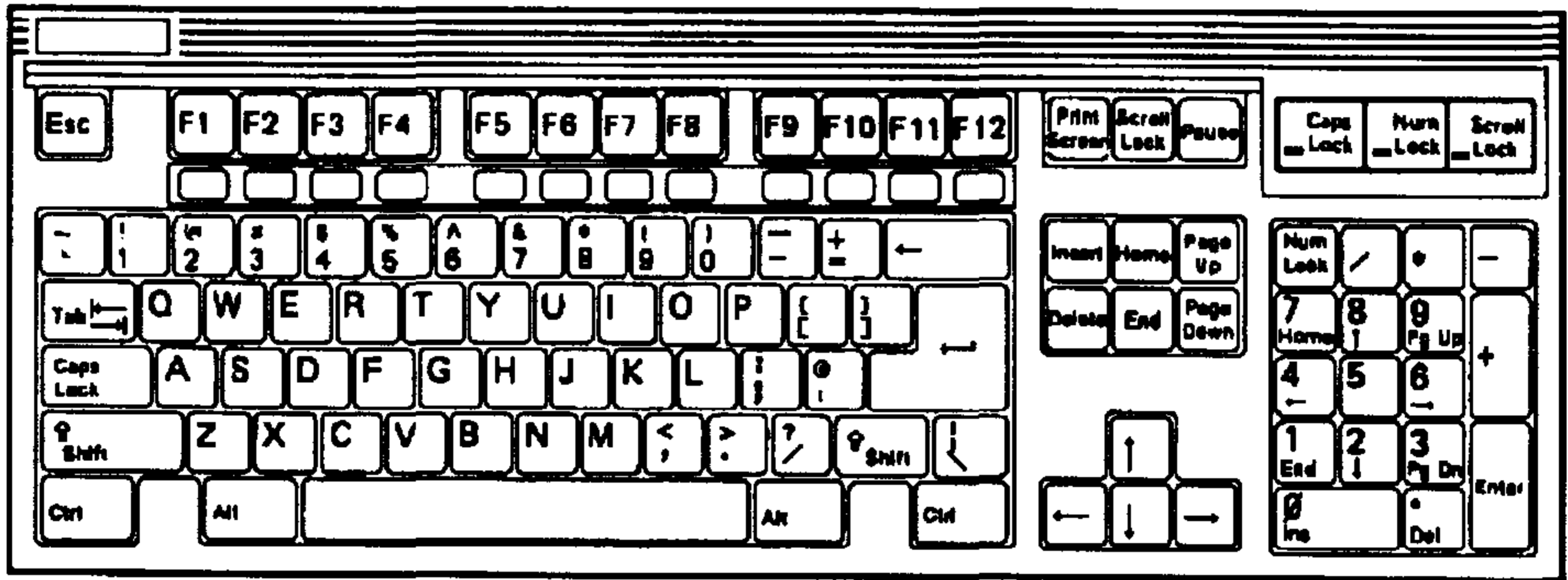
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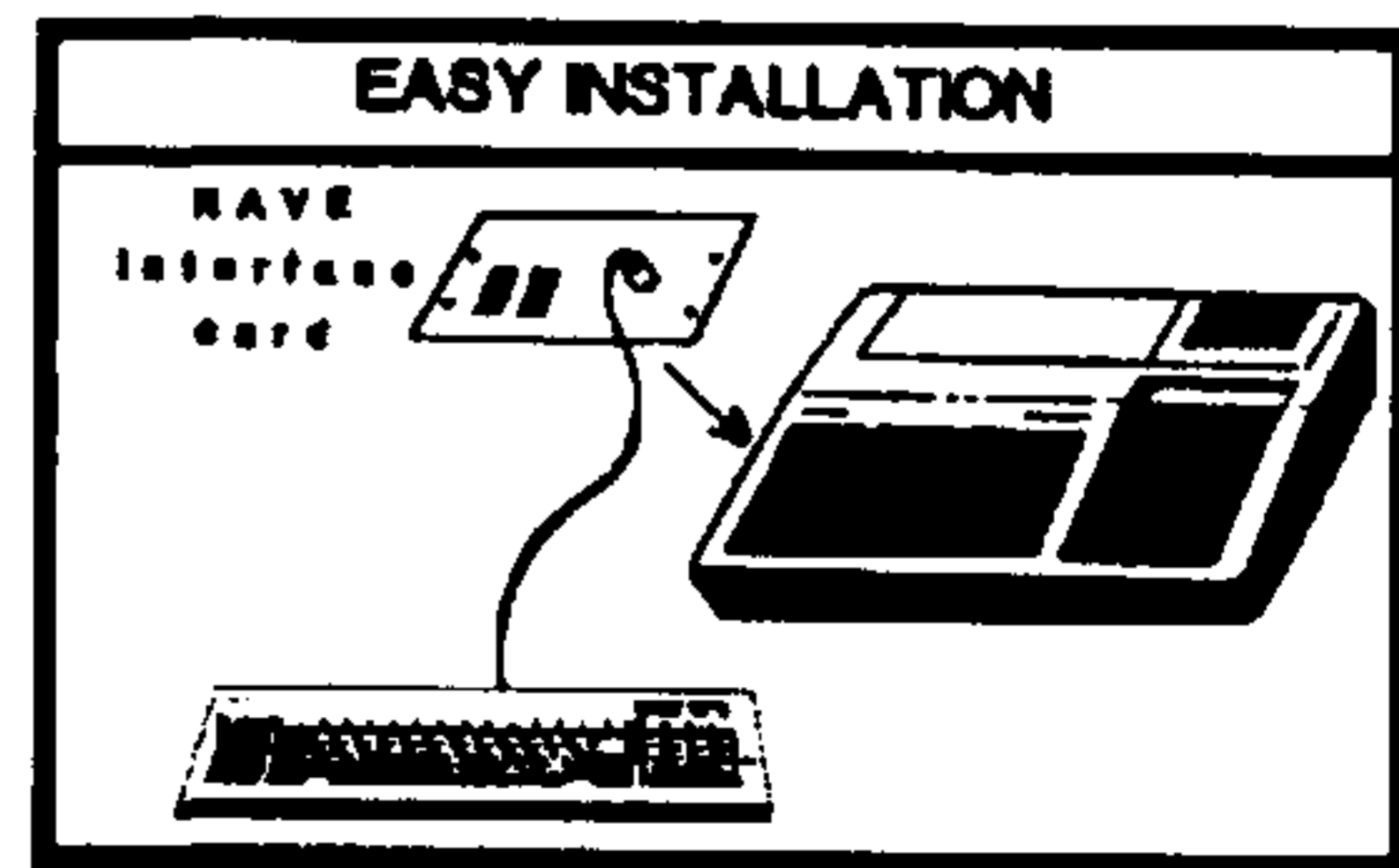
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R/D COMPUTING NEWSLETTER

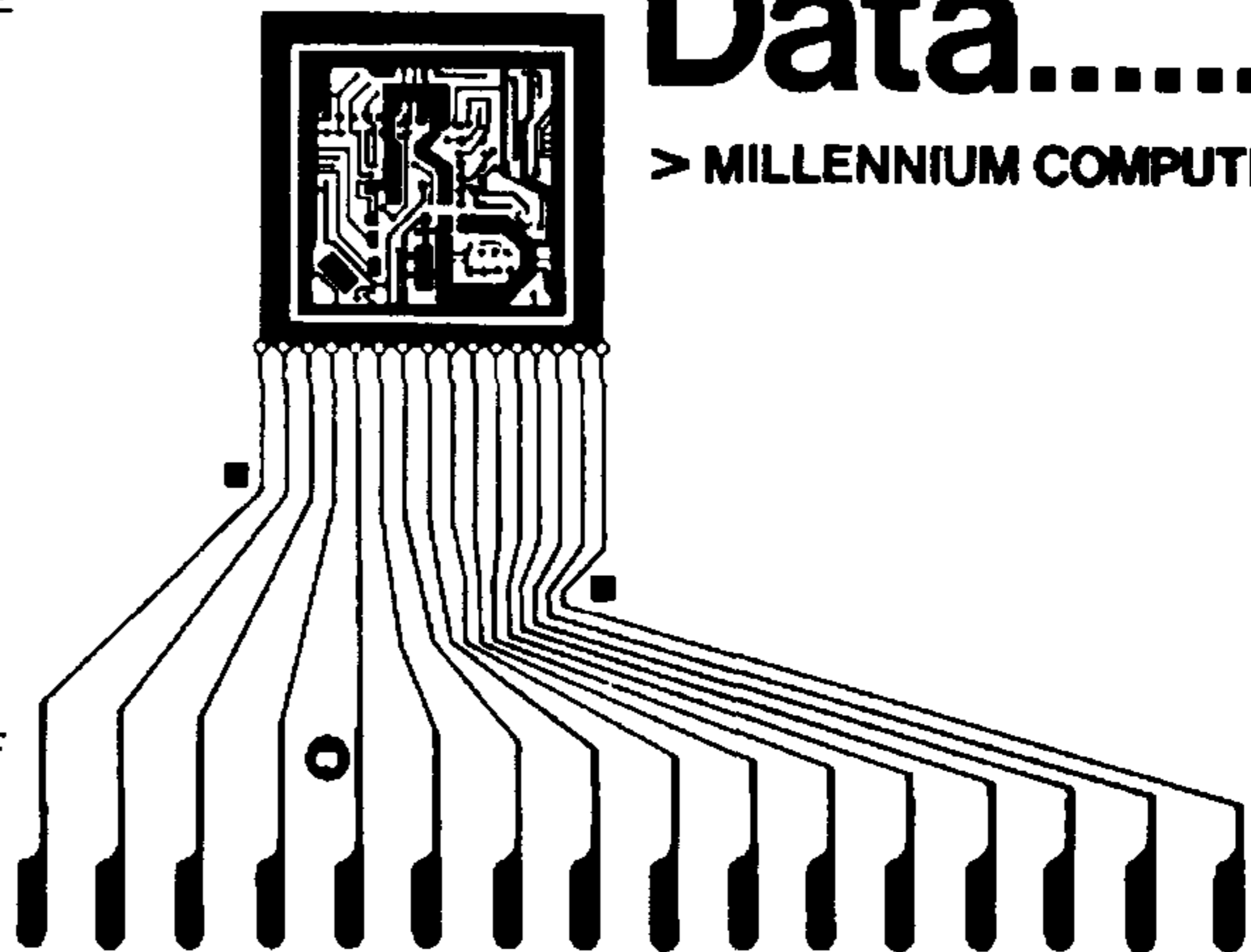
They said it wouldn't last. It was a lost cause, an 'orphan'. Yet today, over two years later, the TI 99/4A lives on! The best 16bit "home" computer ever produced now has more new products than ever before. Your 99 continues to enjoy support and growth with new hardware and software. Ryte Data is committed to bringing you all the tools and support you require for your 99/4A. Take advantage of the computing power inside your machine. Today's afterlife phenomena continues to expand for the only 'orphan' with this kind of support.

R/D COMPUTING NEWSLETTER is dedicated to the TI 99/4A and 9900 Computer Systems. Every month we bring you news, projects, new products, editorials, reviews, opinions, tips, programs and technical information. Over the next year, plans include detailed coverage of the 99/4A with emphasis on the "hidden" information needed. A magazine size format is in progress!

SUSCRIBE NOW TO RECEIVE EACH NEW ISSUE. Copies are mailed at the end of every month to our suscribers. Back issues are available to suscribers only as follows:

- Ver 1.2 Load interrupt switch
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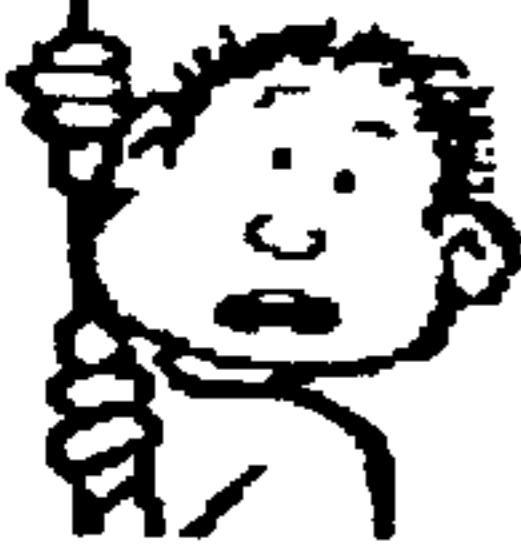
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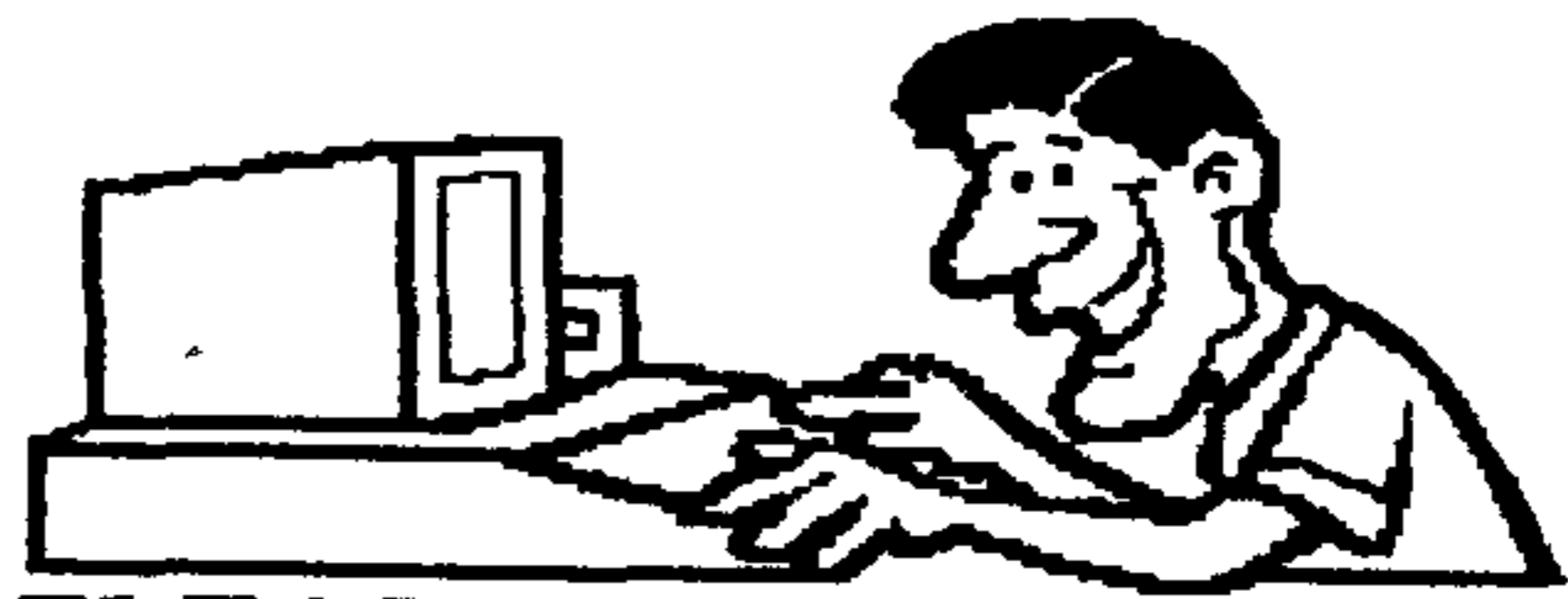
Please make any calls in the evenings, but before 9:30 p.m. Weekend calls are also welcome.

As you can see, our Club allows for many different types of **COMPUTERS**. We all share information, and in turn, learn about many fields of the **Computer World !!!**



We hope we answered all your questions, and that you like the information we gave you. Please feel free to call one of us if we can be of further help to you!

Our Club goal is **COMPUTER EDUCATION** for **APPLE, ATARI, I.B.M., COMMODORE & T.I. Home Computer Users - JUST LIKE YOU!** If you need to learn more about your Home Computer, or want to share information you already know with other Computer Users, We may be just



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MILLERS GRAPHICS

THE SMART PROGRAMMER

We have some GREAT news for you regarding The Smart Programmer Newsletter. Many of you have been wondering when the last issues for your subscription would be published and how we were going to handle renewals and new subscriptions and what we were going to do next.

Well, we are very pleased to be able to announce that Bytemaster Computer Services has purchased ALL rights to The Smart Programmer. It will now be a true MONTHLY publication, starting in April 86'. Bytemaster Computer Services, which is owned by Richard Mitchell, has been publishing their own newsletter, Super 99 Monthly, on a REGULAR MONTHLY basis now for 18 issues!

This merger of The Smart Programmer Newsletter and Super 99 Monthly into a MONTHLY 16 page Smart Programmer, will allow for improved service and a TIMELY publishing schedule. At last, The Smart Programmer will become what it was intended to be; An informative international MONTHLY newsletter devoted to the 99/4A.

We have known Richard Mitchell for some time now and his honesty and integrity along with your desire to keep The Smart Programmer going is what prompted this great merger. The Smart Programmer will not only become a regular monthly publication but it will continue to be an informative one as well. Richard currently has some very talented writers contributing to his newsletter and we, of course, along with Doug Warren, will continue to write articles and memory maps.

Your subscription to The Smart Programmer will continue for the next four issues, starting with the issue to be released in April 86'. So now, everyone that wanted to renew or subscribe to The Smart Programmer should do so by contacting:

Bytemaster Computer Services
 171 Mustang Street
 Sulphur, LA 70663
 (318) 527-0035

The subscription and renewal rates are: 15.00 for U.S. and possessions - 18.00 for Canada - 20.00 for Foreign Surface Mail - 32.00 for Foreign Air Mail.

Now is the time to Subscribe or Renew!



DataBioTics, Inc. Announces the Release of

SUPER SPACE

SUPER SPACE is a cartridge based product for the TI-99/4A that contains an Editor/Assembler GROM and an 8K-byte battery backed up RAM. A diskette contains several powerful programs that take advantage of the additional RAM memory in SUPER SPACE. The manual describes the product and the diskette features. The product is available in kit form as well as fully assembled and tested. Assembly instructions, component layout, and parts list for the cartridge are included in the manual. The manual and diskette may be purchased without the cartridge.

The cartridge provides the following features:

- 1) Editor/Assembler GROM. All features of the Editor/Assembler cartridge are fully functional with SUPER SPACE.
- 2) 8K-bytes of Expansion RAM in addition to any other expansion RAM on your system. This memory space is fully available to assembly language and console BASIC programs.
- 3) A built-in battery to preserve the data or programs stored in RAM memory. The battery is socketed for easy replacement.
- 4) The ability to create your own cartridges. If a GROM header is included with programs stored in the 8K-byte RAM, the programs can be selected from the start-up menu screen just like a normal cartridge program.

The diskette contains the following programs and files:

- 1) SUPER SPACE Menu Loader. This feature allows you to configure the SUPER SPACE RAM with up to 7 assembly language program names that can be selected from the start-up menu. A BASIC program allows you to initialize the SUPER SPACE RAM with a loader and GROM header template, edit the program names, and reset the computer.
- 2) Cartridge Vacuum/Loader. This feature allows you to back up your ROM-only cartridges to disk files then load and run them from SUPER SPACE.
- 3) Bitmap Graphics Demo. The source and assembled object for a bitmap graphics program is included on the diskette. The demo draws lines or circles and allows a screen to be dumped to a graphics printer.
- 4) Editor/Assembler Utilities. The source for a version of VSBW, VMBW, VSBR, VMBR, VWTR, KSCAN, GPLLNK, and DSRLNK are provided on the diskette. This allows you to write assembly language programs that do not depend on the standard Editor/Assembler utilities being loaded.
- 5) GROM Header Templates. The source for several GROM header templates is provided to allow the user to easily create cartridge-type programs.

The suggested retail pricing for SUPER SPACE is:

Fully Assembled and Tested -----	\$49.95
Kit Form-----	\$42.95
Manual and Diskette Only -----	\$14.95



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GOOD NEWS FOR TI/994A OWNERS

At last some intelligent products at reasonable prices are available, products which tremendously expand the capabilities of the TI/994A.

Designed and produced by MECHATRONIC GmbH of Germany, the TI/994a owner can produce high resolution graphics in extended basic using the 60 additional commands built into their EXTENDED BASIC II Plus cartridge, use all the power of a true 128k card, with automatic bank-switching, available either as an internal P/Box card or as a plug-in module with built in centronics and full print spool functions.

Also, their "GRAM-KARTE" allows the user to transfer the contents of any cartridge to disk and to reload onto the card the contents of up to six cartridges, which are then menu-accessed. Up to three "GRAM-KARTES" can be installed in your P-Box, and each, at 128k, significantly increases the power of your system. Imagine having eighteen cartridges accessible from a common menu at any time.

In addition to these products, a true "MOUSE", with PC-like screen ikon graphics, an EPROMMER, the 2.8 floppy "QUICK-DISC" as well as some highly developed software also offered. Initially, these products will be offered at reduced prices, based upon the suspected demand, are subject to increases in the near future.

For additional detailed information, contact T.A.P.E. Ltd, at the address show above.

SPECIAL INTRODUCTORY PRICES

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A LETTER FROM TEX-COMP

This is a copy of a letter sent by Jerry Price, Vice President, Tex-Comp TI Users Supply Company to Mark Crump, President of Houston Users Group. It is a response to several comments made by a previous guest speaker, Dr. Ron Albright, a system operator on CompuServe. This letter, and the comments which were made by Dr. Ron Albright represent the personal feelings of those people, and do not necessarily represent the beliefs of this editor or the other officers of this organization.

Mr. Mark Crump, President
Houston Users' Group
Houston, Texas

January 27, 1986

Dear Mark,

While we have not met personally, I am sure you have heard of our company, Tex-Comp, which has been supporting the TI-99/4A user since the introduction of the original 99/4. As you may be aware, we also support legitimate regional dealers including Mike Matula of MS Computers in Houston. In fact, if I remember correctly, Mike I worked together to get your Bulletin Board a modem at a special low price.

The reason I am writing you, is that it has been recently brought to my attention from several sources who attended your last monthly meeting on Sunday, January 5, 1986, that the scheduled speaker Ronald Albright, a

system operator (sysop) on CompuServe, deviated from his presentation about CompuServe and made a number of defamatory and untrue remarks of and concerning myself, my business and one of my suppliers.

Since I was not present to respond to Dr. Albright's remarks nor did he ever make a prior effort to contact me to confirm the truth or accuracy of the statements he made of which he has absolutely no first-hand knowledge, I would appreciate your reprinting this letter in your next newsletter so that your members can have the opportunity to hear both sides and form their own conclusions.

1. Dr. Albright accused Tex-Comp of misappropriating DM-1000 from a Canadian users group and urged your membership to stop dealing with Tex-Comp until it stopped giving this program away.

The true facts are that this program was provided to Tex-Comp by a Canadian customer early last summer with the request that it be "freely distributed". Notwithstanding the request that the program be "freely distributed", we also confirmed that the program had been placed into the public domain by the author which means absolutely no claim of copyright or any other proprietary right can legally be made nor can the program be reclaimed from the public domain at a later date. At the time we received this program it was being handed out and passed around at just about every user group meeting or gathering in the country and also appeared for free downloading on many local and national boards. In fact I am informed that even the Houston board and the CompuServe board

had it on at one time or another.

Apparently, the fact that we started giving it away upset a small group of individuals who feel that they have the right to dictate and control who can freely distribute this public domain program. Since the program is public domain, the attempt to control, limit or monopolize its distribution by conspiring to bring about a boycott or by interfering with the relationship of Tex-Comp with its customers, prospective customers and its suppliers, is a clear and willful violation of the United States Anti-Trust laws which contain appropriate criminal and civil sanctions. Tex-Comp, with the help of many of its customers and user groups in both the U.S. and Canada, has identified the culpable parties, and the matter is currently in the hands of our legal counsel for appropriate action. There has also been false inferences made that Tex-Comp removed the name of the author and his group on the version it is freely distributing. Please check this out with any copy MS has in stock or any copy any of your members have purchased from us and you will see that it this assertion, like the others, is simply untrue. We also have written proof that many of our customers did in fact send contributions to the Canadian group. Unlike DM-1000, there are a number of so called "freeware" programs, such as Fast Term and Mass Copy, that make a legitimate claim of copyright, which would enable the author or owner to make a legal claim of unauthorized use.

2. Dr. Albright accused Tex-Comp of improperly taking the name "Explorer" from Millers Graphics for a program of its own.

The true facts are that Tex-Comp has been selling a disk editor program licensed from a young man in Virginia (who also wrote the Nibbler) under the trademark "Explorer" since December of 1984 and has records such as cancelled royalty checks, invoices, etc. to establish this date. I first learned of Miller planning to call a forthcoming program "The Explorer" in mid-summer of 1985 at a local users group meeting and after promptly verifying that Miller had not sold or introduced his program I put him on notice so he could change his proposed name before introduction and avoid the possibility of any conflict or confusion. He never responded to this letter or changed the name even though he had more than enough of an opportunity to do so. Millers Graphics is a small firm which is actively supporting the more advanced 99/4A users and I have no desire to injure him financially.

Accordingly, when Triton asked my permission to sell his program which infringed my California trademark registration, I agreed providing the name in the Triton catalog was changed to MG Explorer. The story Dr. Albright related to your group about my midnight trip to a typesetter to beat Miller to the marketplace with the name has absolutely no factual or truthful basis. Even Dr. Miller himself stuck to the true facts as reported in the January issue of Micropendium.

3. Dr. Albright advised your group that the new CorComp diagnostic module (FDM) that Tex-Comp is currently advertising is nothing but an old worthless program that CorComp had used internally for its own testing. He also implied that CorComp and its

dealers were ripping off the public on its load interrupt switch since it could be built and hard wired with a couple dollars worth of parts from Radio Shack.

The true facts are that the FDM contains a brand new program that CorComp has developed for this module product. It is the only product of this type that we know of that enables a user to test the system even when the drive is malfunctioning. The information Dr. Albright provided to your group about it being a old program is false and constitutes trade libel against both CorComp and its many retailers including Tex-Comp. In addition, while owners are not and do not wish to build their own hardware or make internal connections to their equipment, the plans for many pieces of TI hardware, adapters, cables, etc including load interrupt switches, have appeared in the various 99/4A magazines and user group publications through the years and we at Tex-Comp have always provided them to our customers. However, to publicly attack a company and its retailers which make an investment in research, design, testing, tooling, component parts, packaging, overhead expense, and advertising to bring a product to market at a price higher than what one could throw it together in his backyard, is not only blatantly unfair, but is totally inconsistent with the economic principles which underlie our democratic society. Apparently Dr. Albright fails to realize that many 99/4A users are not as talented as he is and would prefer to pay extra to get a unit complete with tested software that plugs right in with no hassle.

4. Dr. Albright also advised your group that CorComp is in serious financial trouble and would most likely be out of business by the end of the year.

As one of the many retailers which market and support CorComp products, I take particular offense to this defamatory statement which was made with absolutely no first-hand knowledge of the true facts. I personally know of no situation where CorComp, under its current management, has failed to deliver product as promised or has failed to meet its current legitimate financial obligations. As a mail order company, Tex-Comp could not sell a product that was unreliable. CorComp's outstanding record of delivering what it promises should be compared by contrast to other firms that have either gone out of business or keep promising to introduce products that are either delayed, introduced with serious problems or not introduced at all.

On the advice of legal counsel, I cannot at this time go into Dr. Albright's motives for using the platform your group gave him as a Comuserve spokesman to make false and defamatory remarks against Tex-Comp and CorComp, or the legal effect this may have on pre-existing contractual relationships. I can assure you however that Tex-Comp takes any and all unfounded and malicious attacks on its reputation very seriously and is more than willing to provide anyone making false and defamatory statements about it an appropriate forum to be properly heard.

In closing I would like to point out several interesting

facts for your membership to consider in forming its own conclusions in this matter.

1. Mr. Boone, the Canadian who along with Dr. Albright and Theresa Masters has been actively engaged in a smear campaign against Tex-Comp in an attempt to limit and control the distribution of DM-1000, have attacked this free distribution of a public domain software by Tex-Comp ostensibly on the grounds that Tex-Comp is a dealer as opposed to a user group. It should be pointed out however, that Mr. Boone is listed in the current Millers Graphics catalog as a Canadian dealer. Theresa Masters has in the past year converted the LA users group from a club to a dealership and has purportedly obtained a business and resale license. Products from firms such as Millers Graphics and Myarc are advertised for sale by her group in the LA 99er newsletter and are sold by her at a profit at other users group meetings and computer selling shows throughout the area. Dr. Albright himself is currently receiving profits from commercial software that he partially wrote and sold to Tex-Comp through his partnership, Heritage Software.

2. At your last meeting (January 5), Dr. Albright advocated that software for the 99/4A should be issued as freeware with the ultimate user being the sole judge of what should be paid. If Dr. Albright feels so strongly about this freeware concept, I question why his book, which was originally written on disk, was distributed commercially rather than being distributed on disk as freeware.

Thank you for your anticipated co-operation in

presenting our position in this matter. Your group can count on Tex-Comp for support in the TI 99/4A marketplace and we thank you all for making 1985 a very successful year for a firm supporting a computer that has not been made for almost two and a half years.

Very Truly Yours,

Jerry Price, VP
Tex-Comp TI Users Supply
Company

THIS MONTH'S PROGRAM

This month's program will begin with a demonstration of some of the more popular business packages written for the T.I. 99/4A by Futura Software. A past president of the Houston Users Group will present this segment of the meeting. Wayne will also be available for a question and answer session on this software. If you have questions about the General Ledger or Accounts Receivable feel free to ask at this time. Mike Matula of MS Computers will round out this month's program with a demonstration of Graph-x. This is an exciting print graphics program written for the 99/4A by one of our neighbors from the deep south, Australia is about as far south as one might care to go. Anyone wishing more information about this program may ask Mike following the demonstration.

David Sholmire Program
Vice-president

4-10-86

Here is a quick report on the New England Fayuh, as seen by one of the organizers (me):

The new computer-on-a-card was there and was working in the morning! It was in a wire wrap version that crashed by the afternoon MYARC presentation in the auditorium. A lot of people saw it, and it certainly was not vaporware. The first 20 PC boards have been on order for about two weeks. If they had been delivered on time, one of them would have been at New England, not the wire wrap version. They should be ready real soon now (or even sooner). For the wire wrap version to survive the trip at all, was perhaps fortunate. They aren't made to travel! Mass production by sometime in June, if all goes well. The card will include four ports - one for the IBM type keyboard, one for mouse, one for joysticks, and one for the monitor. The card will not support your color TV as the 4A does. If you want color, you must use a composite or RGB monitor. RGB will be necessary if you are to take full advantage of the high-res graphics or 80-column text capability and still have color. The present TI monitor does not have the resolution required for 80 columns!

As far as XBII is concerned, version 2.1 was not quite ready yet. The MIN/MAX is debugged and the integer math is working, but the user generated DEFs and SUBs are still giving some trouble. Lou Phillips made it quite clear that purchase of version 2.0 now entitles you to 2.1 without additional charge (except mailing?). If one person in an area gets the update on disk, it can be passed on to others, since the disk alone is worthless without the eeprom on the 128/512k card. There is no good reason to wait to buy the present version, unless you just don't want to be bothered with an incomplete version for now. I bought it this week to become familiar with the new functions, even though I knew it would not run most of my own software yet. I expect it will be ready within the month. Lou also clarified some comments made at TICOFF. The finished computer will have a new operating system, with perhaps some GEM similarities. (Paul Charlton says GEM-like displays aren't an operating system, they're an I-O device.) XBII will be version 3.0 with new graphic modes, not the currently expected 2.1. It may not even be called "extended BASIC" any more, but given a new BASIC name. He didn't say so, but I expect that not all that will be done for the initial production run, if it's in June, but both BASIC and the D.S. will be on disk anyway and can be upgraded as they are improved.

Barry Traver gave a superb inspirational talk about the TI family community and how it pulls together to support us all. Jim Horn talked about the role of telecommunications in the TI world and in general, and then he called JZ out of the audience for a few words - ostensibly about Compuserve. Well, JZ showed us all he is a very fine public speaker and an astute analyst of sociological trends. Remember that, future faire organizers! We all knew JZ could talk on a keyboard, but he is even better up in front of an audience! Paul Charlton, as usual, enthralled the technically sophisticated. His audiences are small, because his level is beyond a lot of us, but those that stay really listen. Chris Bobbit spoke of some exciting new things under investigation by ASGARD, particularly Richard Roseen. Their work could lead to an alternative type of new computer - bare bones in execution, but very fast and very capable. Prototypes will be developed, but there is no commitment to market it, unless it looks like there really is a demand for it. All-in-all, the New England Fayuh seemed to run very well. It certainly turned a good profit for the clubs participating, and the dealers seemed to do quite well, too. The headcount was about 600 people, with about half of the cars in the parking lot from out of state. It was done without any paid advertising, but every other source we could think of was exploited and the word reached the people it was intended for. Peter Hoddie's phone was ringing every few minutes for the last three days before the Fayuh from people who had heard about it and wanted directions.

TEXAS INSTRUMENTS



May 7, 1986

Mr. Sanford Herman
6219 Sanford Road
Houston, TX 77096

Dear Mr. Herman:

Thank you for your correspondence concerning the closing of the TI Customer Service Centers.

The decision to consolidate service to our central location was not an easy one to make, primarily because of its effect on customers such as you. I assure you that we are committed to providing the highest quality service possible, and we will continue to make every effort to quickly and efficiently service all customers from Lubbock.

We are still evaluating options to the Customer Service Center closings. However, at this time, we have not identified a need for third-party authorized repair facilities.

As part of our on-going commitment to excellence in service, our Programming Assistants are in the process of developing a means of testing TI-99/4A computer systems. Two diskettes and a pakette of instruction materials will be provided to active User Groups. One diskette will be for use with Extended BASIC software, and the other is for use with Mini Memory software. Included will also be the schematic for a small cable that will be necessary for the RS-232 peripheral test. We anticipate shipment of these programs to begin in approximately three weeks.

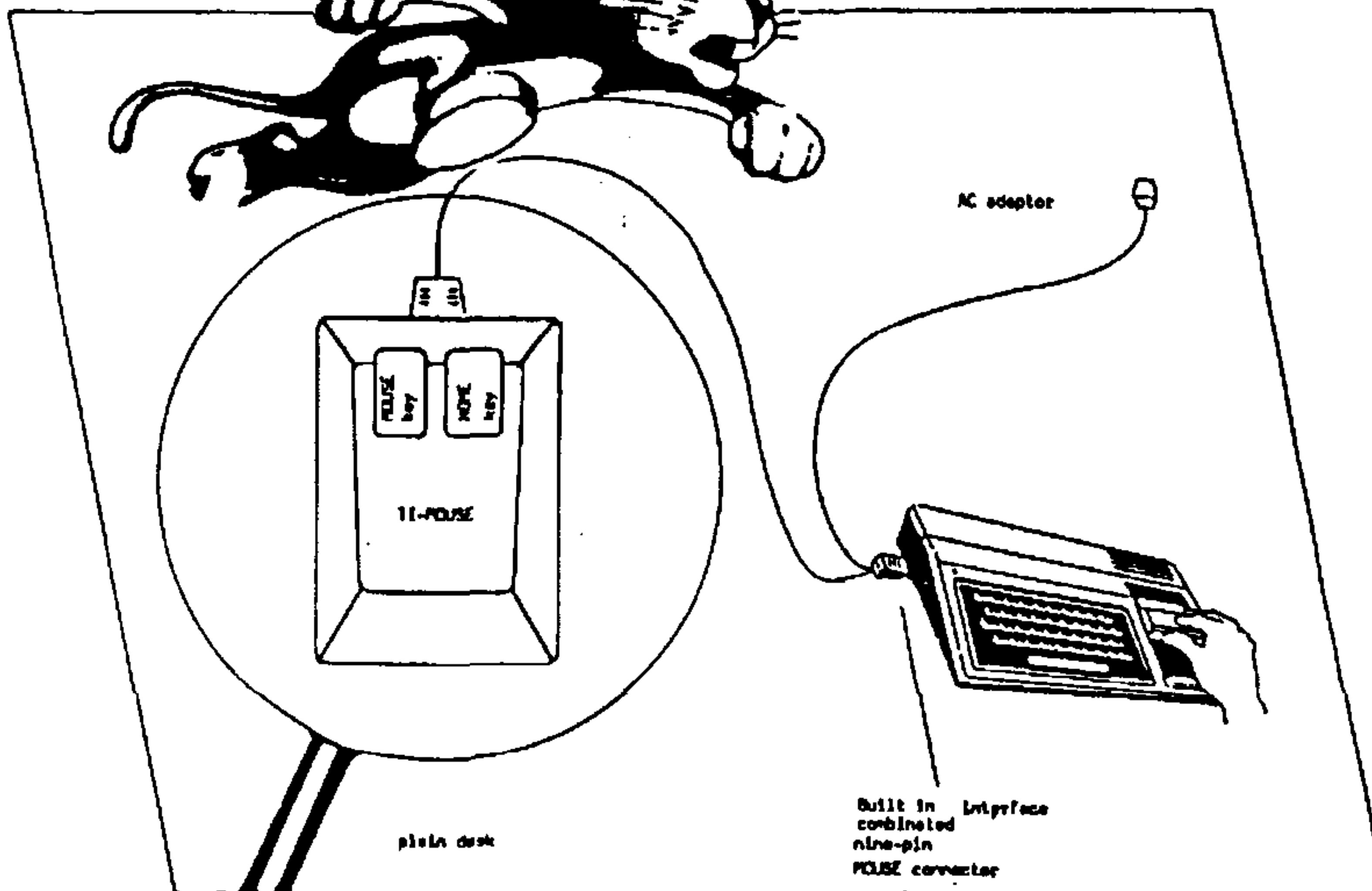
Again, Mr. Herman, thank you for writing to let us know of your concerns. If you have further questions or comments, please write again or call a consumer representative toll-free at 800/TI-CARES (800/842-2737).

Cordially,

Tom Shields
Manager, Consumer Relations

/bjc
16296433

TI MOUSE



The lightweight, compact TI-MOUSE adds a greater freedom and versatility to Games and Sound-applications on the TI 99/4A Home Computer.

The unit allows you to control movements, sound, speech and color without keyboard interactions.

You can use the TI-MOUSE with certain solid states command modules, or with your own extended basic programs

The TI-MOUSE enables you to control the cursor very fast and easy and you have the possibility to set it to any pixel you want. Especially for mechatronics Extended Basic II Plus it is a powerfull instrument.

With some programs that where controlled up to now by Joystick or by keyboard can be changed for control by the TI-MOUSE

TI-MOUSE and control software and a demo disk are available through your local dealer or direct through

T.A.P.E. Ltd. P.O.BOX 4042 ONTARIO CA 91761

THE PRINTER'S APPRENTICE

Number 1

McCann Software News

November 1986

McCann announces Upgrade to Version 1.03

McCann Software today announced the recall of early versions (1.01 and 1.02) of its new printing system The Printer's Apprentice. Both versions had flaws which prevented the user from full use of the software. Owners of these versions are asked to mail their original system disk to the address on the label. McCann will copy the new version to their disk and mail it back with \$1.00 postage refund. Owners are also asked to make a copy of the software for use while the original disk is being updated.

Things We Did Not Tell You

The second single sided disk or back of your flippie, depending on which method of distribution you received, contains several files. Some of these files are examples for the scripts in the back of the manual. The majority of these files are font files. Those named BAUHAUS, TREASURE and TYPER are what we call SDSH fonts. Those named OUBAUHAUS, OUFINE and QUARTDECO are what we call OUSH fonts. *****IMPORTANT***** When you use fonts in the FORMATTER or CHARACTER EDITOR remember that their type must be entered before

use or unpredictable results are produced. In the FORMATTER the variables must be set up before choosing the Fontfile option or the output will be garbled.

We had a question about our manual to the effect "What the heck is a descendant, somebody's kid?". Our software is menu driven. Menus have different levels. You may descend the menu tree via an option or you may ascend the menu via an exit. Hence we refer to paths of descent into the menu as descendants.

Our script for the SCHEDULER has confused some people. There is no file named PRINT as in DSK2.PRINT on the disk until you have created it in the FORMATTER script. Also, the example assumes you have set up PIO.CR in PAB 3 to which you will direct the scheduler output. If you will edit PAB 3 with the proper parameters (see the FORMATTER script) for PIO.CR you will succeed with the R 3 ENTER (meaning Run the schedule with output to PAB 3).

Finally ...

McCann Software would like to encourage those of you who come up with interesting techniques using THE PRINTER'S APPRENTICE to share them with us and with members of the user groups and bulletin-board. Techniques such as letting the SCHEDULER overlay two Extn files are not easily recognized until someone demonstrates them. We would also like to see some good fonts and we plan to publish some soon. Finally we would encourage you to let your friends buy their own copy of THE PRINTER'S APPRENTICE, they're worth it.

This page was produced using THE PRINTER'S APPRENTICE Copyright 1986 Mike McCann, All Rights Reserved. THE PRINTER'S APPRENTICE is \$22.50 and McCann Software's other program BUSINESS GRAPHS 99 is \$15.95. To order send check or money order to McCann Software P.O. Box 34160 Omaha, NE 68134.



Trio+ Software
P.O. Box 115
Liscomb, Iowa 50148
Phone 515-496-5455

TRIO 'PLUS' STANDS FOR EXTRA VALUE IN SOFTWARE

TRIO+ SOFTWARE PRODUCTS

!! DISK ENVELOPER 2 !!

Look what we did to the Disk Envelope Designer program! We listened to your feedback, and the result is the NEW Disk Envelope Designer 2!

IMPROVED SPEED! Now your setup information will be stored on the Enveloper disk and will be your defaults at all times. (Data may be changed.)

CHOOSE YOUR PRINTOUT FORMAT! Make an envelope or a directory listing without the envelope outline! Print one format, then go back and print a different format WITHOUT ACCESSING THE DISK AGAIN! Both the envelope and the directory listing may be printed either WITH OR WITHOUT COMMENTS, giving you up to FOUR DIFFERENT FORMATS PER DISK!

EASY TO USE! Options are selected from easy to follow menus - use only the up and down arrows! The only information to type in is the absolute minimum required to run the program. MORE! All comment files are automatically given the same name as that of the disk being cataloged. No need to remember the comment file name!

PRINT DUPLICATE SHEETS just by entering the number of copies you want!

WE MOVED OUR COPYRIGHT NOTICE to the bottom of the envelope, making the back of the envelope taller than the front. The same number of comment files are allowed as in the Disk Envelope Designer program.

PRINTER COMPATIBILITY! Allows you to make your printouts in compressed or PICA size type! Should work with any printer!

YOU ASKED FOR IT! NOW YOU CAN HAVE IT ALL! And for only \$10.00 (plus \$1.00 S/H). Specify DISK ENVELOPER 2 when ordering.

!! "TI-SINGS" from TRIO+ !!

Your computer can sing! TE-2, Speech, Disk System required. Helps you understand and use allophones. Input, edit and play back your favorite songs (words and music). High quality speech allows the TI to believably sing your favorite songs. Expands your knowledge of allophonic use of speech painlessly, a lot of fun!

Written by BARB BERG, author of many publicized articles on using the TI.

Price: \$6.00 + \$1.00 S/H.

TROJAN TI PROGRAM ON THE LOOSE
By--Ralph Fowler--Author "TIBBS"

On November 3, 1986 a user (who I thought I could trust) uploaded a group of programs to this BBS. They were archived with the ARCHIVER2 program. The Archive was called STAR-ARC and was 95 sectors in length. It contained the following programs:

EXAMINER	4
HELP	3
LOAD	36
LOAD1	54
LOAD2	3

As usual, I moved them to a work disk and stored away my valuable TIBBS disks. After un-archiving the programs, I inspected them. I ran the LOAD program, which put up a pretty nice graphics screen. The system then dropped to Extended Basic- which signified that some assembly language subroutines had been loaded into my memory. I then loaded EXAMINER and tried to list it. It was protected with the Extended Basic protection. This seemed strange, since no one uses it any more. I unprotected it and listed it.

The listing said that program would play the standard TI chimes, then say something about reading all disk drives. It would then do two CALL LINKS and print a message to the screen. The message said:

Just when you thought TI's didn't have Trojan Horses. ARF ARF. Got you!

Interesting?

I remember this from over on the IBM boards, I thought to myself. I put EXAMINER on its own disk and ran the program. The disk was unusable afterwards. So was my RAMDISK.

MORAL: I was prepared for this. YOU should be, too. DO NOT trust ANY program for the TI until you verify that it is not trojan. Even the programs you get from this BBS. I will not be responsible for any damage they cause. I will not knowingly put any damaging program in the downloads.

The sick fool didn't even have the creativity to change the ARF ARF bit. It originally appeared on an IBM board named FIDO, hence the ARF ARF stuff. The user had the initials J.T. and I would like his comments on this.

ARF ARF- "You didn't get me!!!"

(Editors note-Ralph called the number the user used to sign on with, and of course it was wrong. SYSOPS-check ALL uploads to make sure you don't get burned with a program like this, and VERIFY your users to help weed out the JERKS like this guy)

courtesy of FLUG

TEXAS INSTRUMENTS PHONE NUMBERS

I haven't checked these numbers to see if they are all still in operation but I suspect they still are as TI has been very good about staying with their committment to support the 99/4A. If you have any feedback, please send it in and I'll share it with every one.

TI CARES	1-800-842-2737
TI RESPONSE.....	1-800-232-3200
TI SUPPORT.....	1-800-858-4565
BUSINESS COMPUTERS...	1-800-847-2787
SOFTWARE.....	1-800-858-4075
TECHNICAL.....	1-806-741-2663
MANUALS AND PARTS...	1-806-741-3064

From the Lake Charles Users Group

MICROCOMPUTER
Qposoft
SOFTWARE

EXTENDED BASIC II PLUS IS HERE.

AVAILABLE NOW IS AN UPGRADED VERSION OF **TI-XB** (VERSION 110) WITH 44K OF PREPROGRAMMED MEMORY **PLUS** HIGH RESOLUTION GRAPHICS.

THIS CARTRIDGE FROM MECHATRONICS GMBH IS PRODUCED UNDER LICENSES FROM TI AND APESoft. THE MECHATRONICS **XB II+** OFFERS MANY OF THE FEATURES PROMISED BY MYARC INC. IN THEIR EXTENDED BASIC UPGRADE. EXCEPT WITH **XB II+** THERE IS NO NEED FOR SPECIAL MEMORY OR CARD.

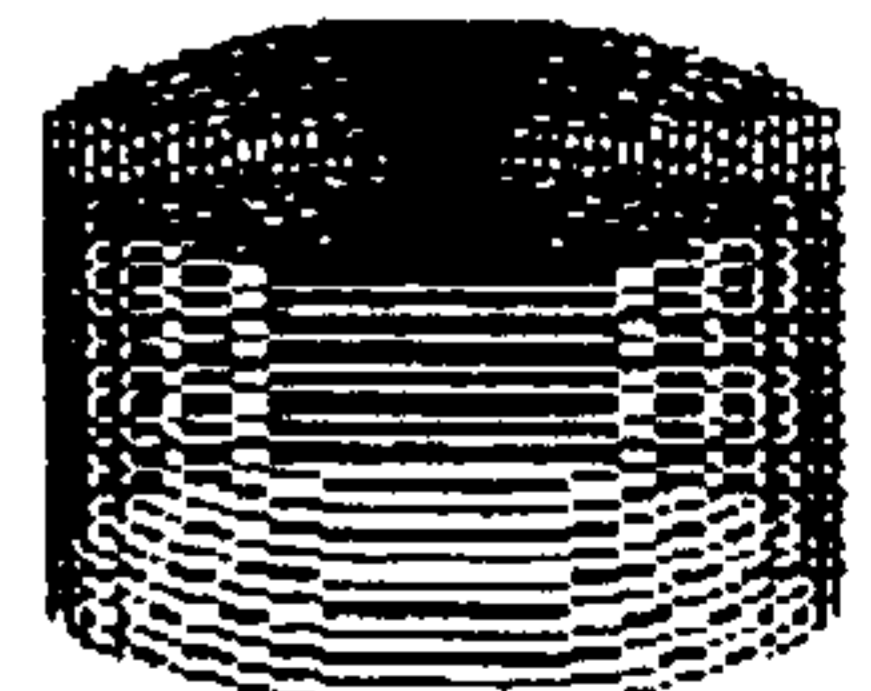
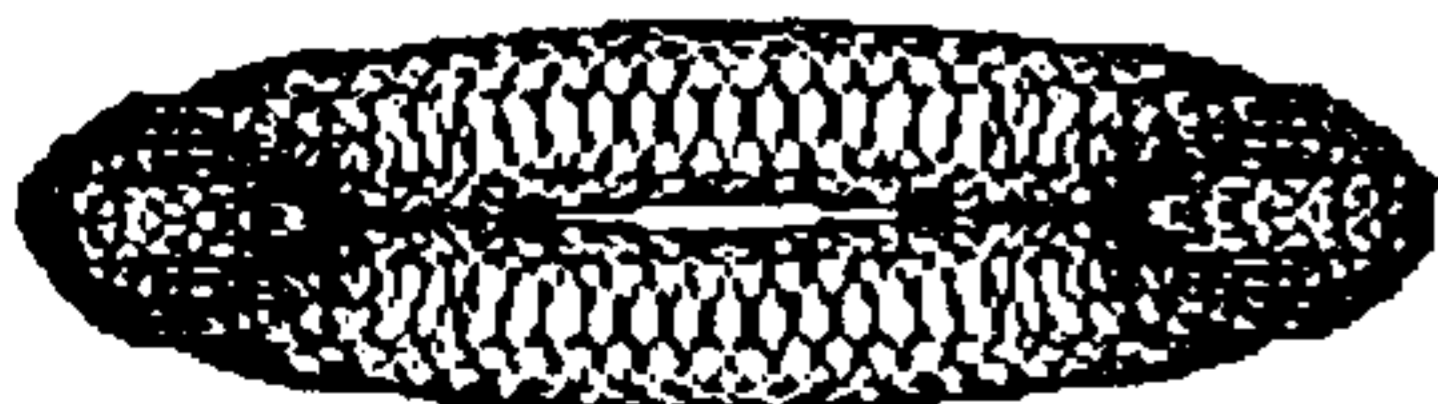
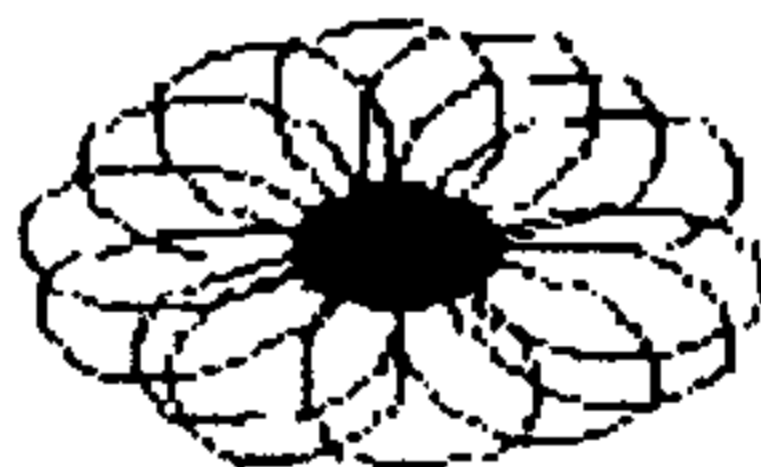
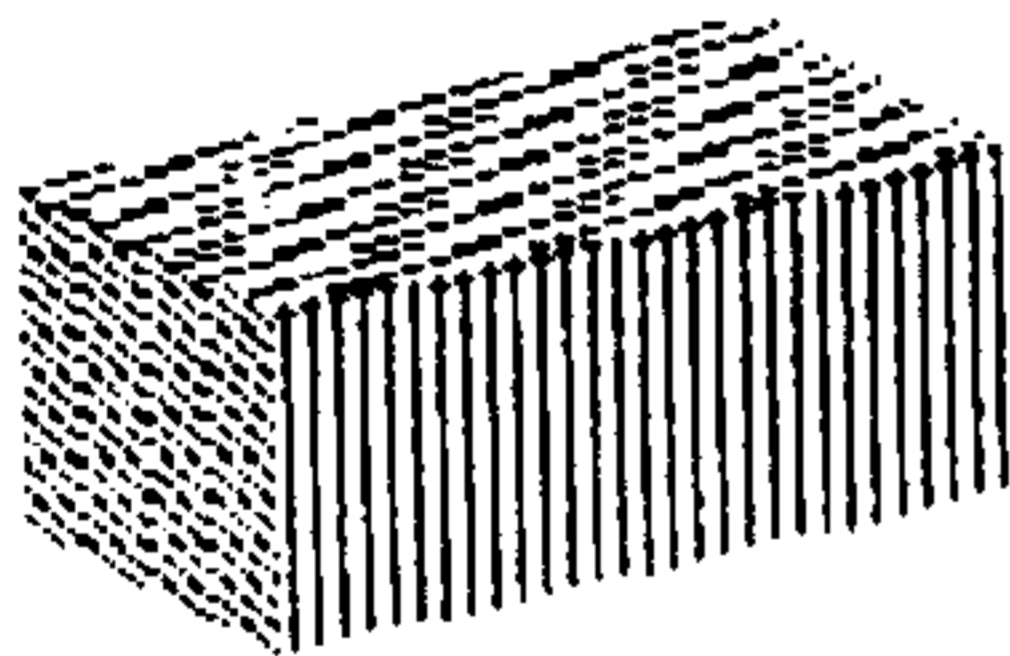
XB II+ IS FULLY COMPATIBLE WITH TI OR CORCOMP DISK CONTROLLER CARDS, THE FOUNDATION 128K MEMORY EXPANSION AND MYARC 32K AND 128K MEMORY CARDS.

THE **XB II+** CARTRIDGE CONTAINS 20 NEW PROGRAMMING STATEMENTS AND 40 GRAPHIC ORIENTED STATEMENTS. THE GRAPHICS STATEMENTS ALLOWS THE USER TO ADDRESS EVERY PIXEL ON THE SCREEN (256x192) WITH CONTROL OVER FOREGROUND AND BACKGROUND.

THIS CARTRIDGE PLUS MANY MORE NEW PRODUCTS SUCH AS A 128K STANDALONE MEMORY EXPANSION, TI 99/4A INTERN BOOK, 128K RAMCARD FOR THE PE-BOX, MOUSE, E-PROMER, AND THE 128K GRAM-KARTE FOR THE PE-BOX ARE AVAILABLE THROUGH YOUR LOCAL DEALER OR DIRECT FROM:

TAPE Ltd. 1439 SOLANO PL. ONTARIO CA 91764 (714)989-9906

SEVERAL E' AMPLES OF THE EXCELLENT GRAPHICS AVAIABLE WITH THI CARTRIDGE!



JANUARY 1986