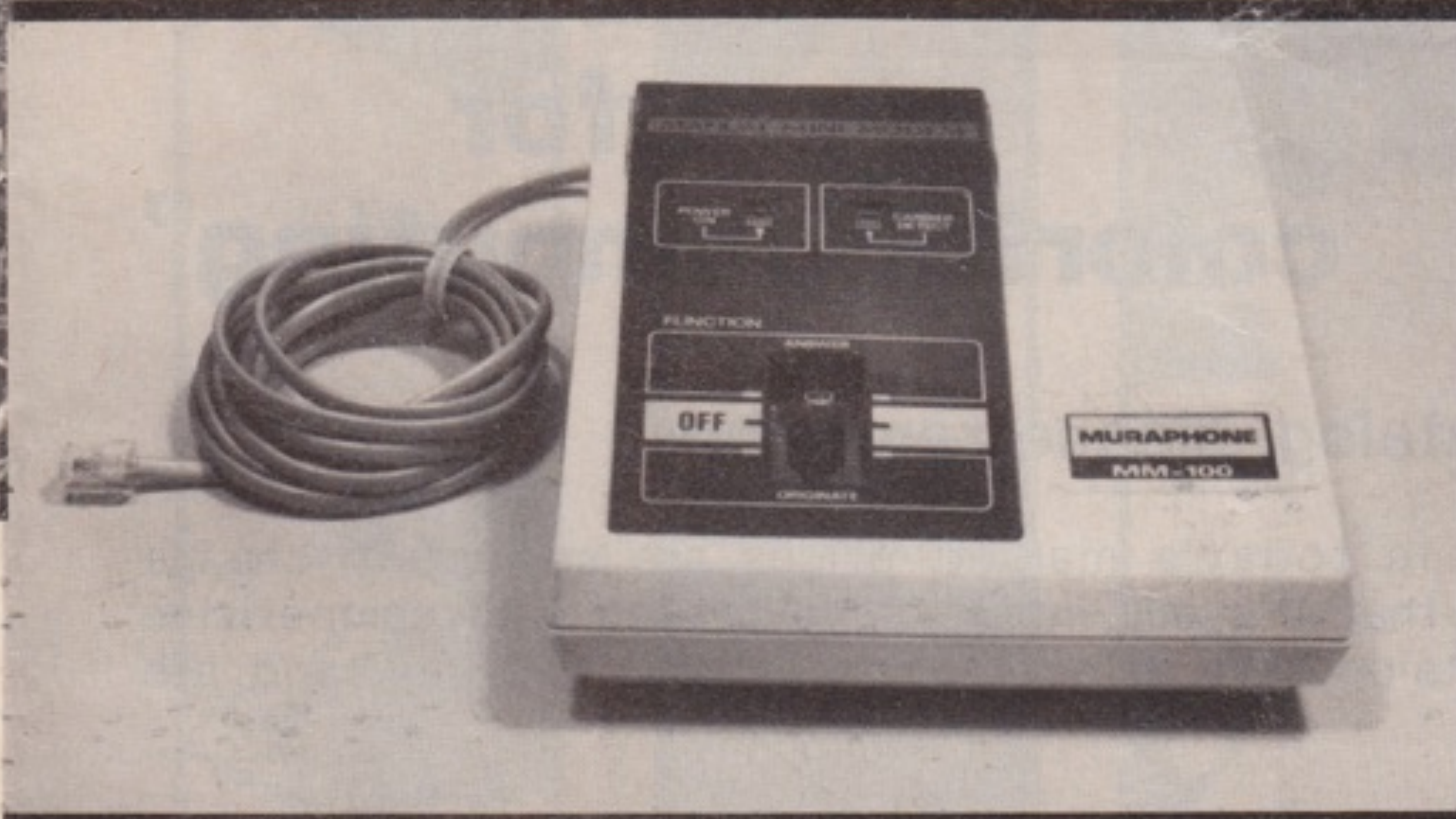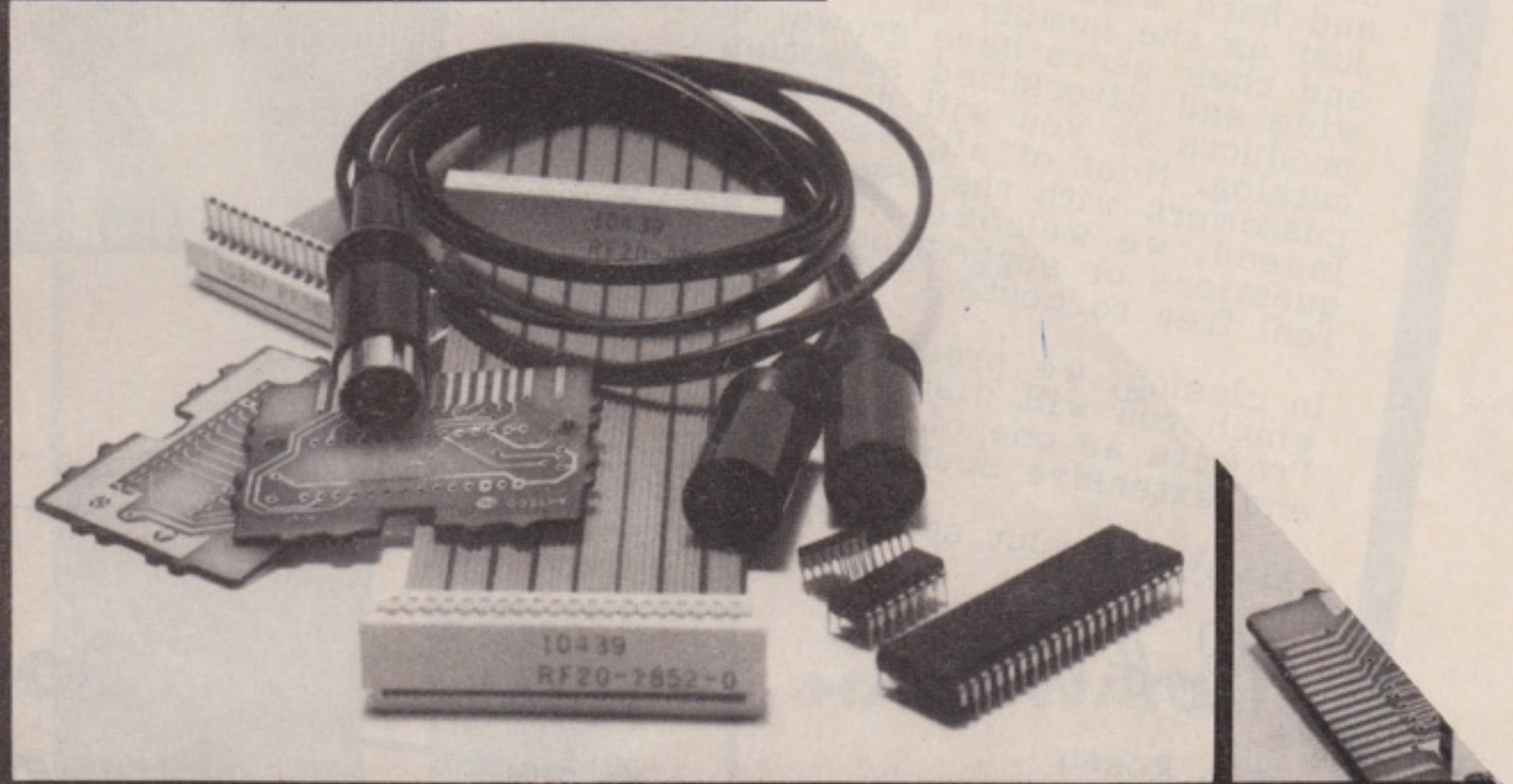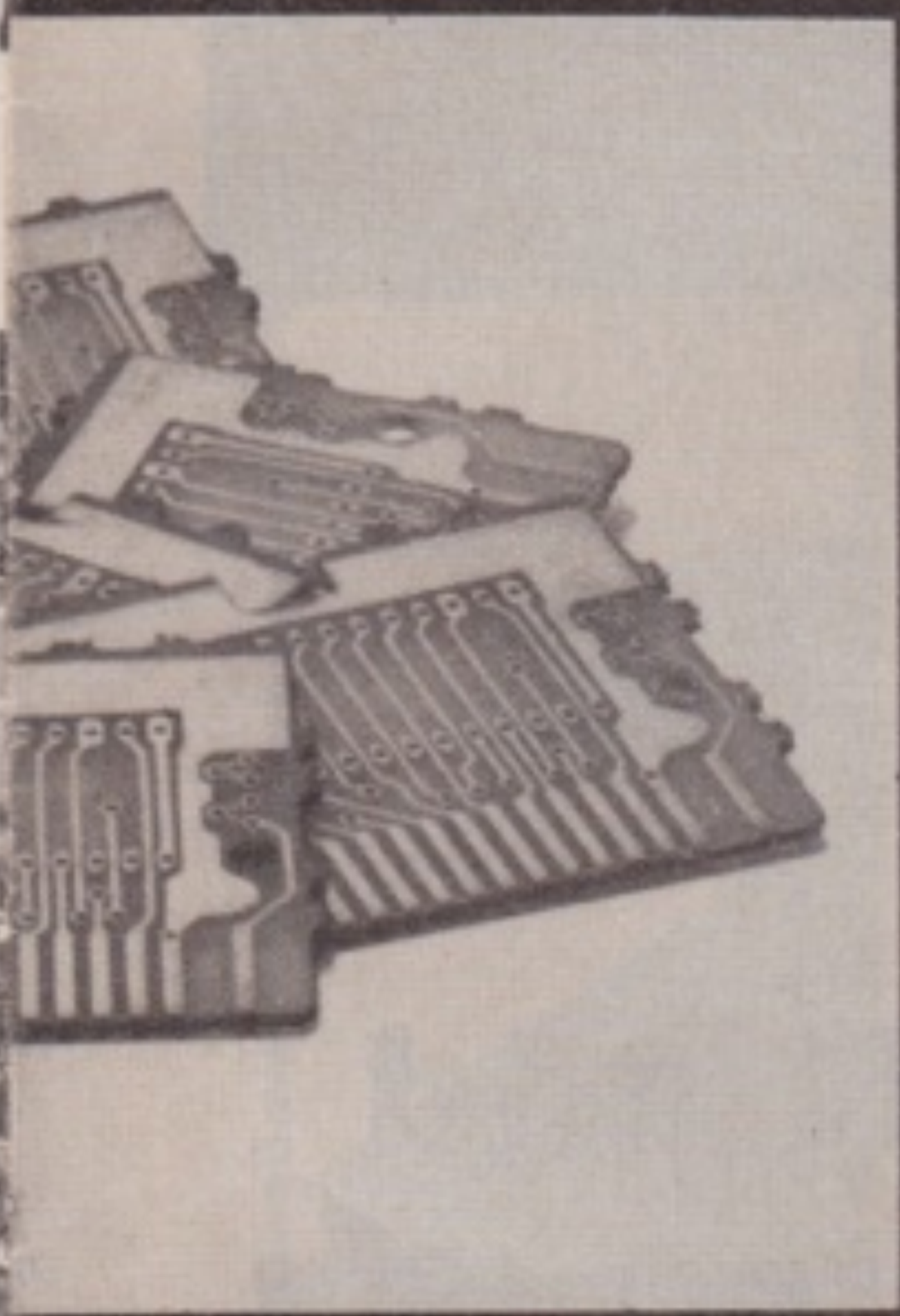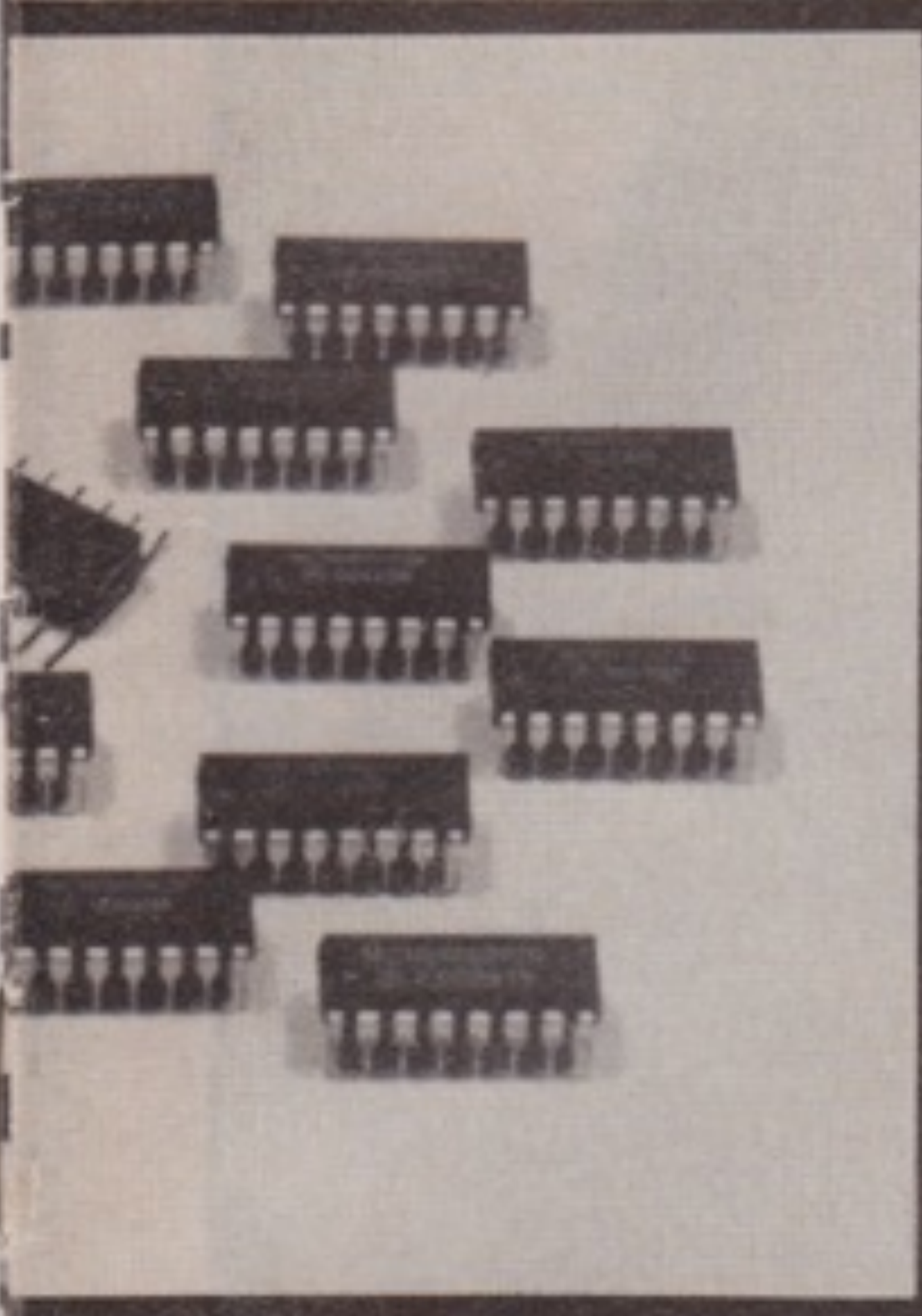# SPECTRUM PROJECTS

PRESENTS

THE CATALOG
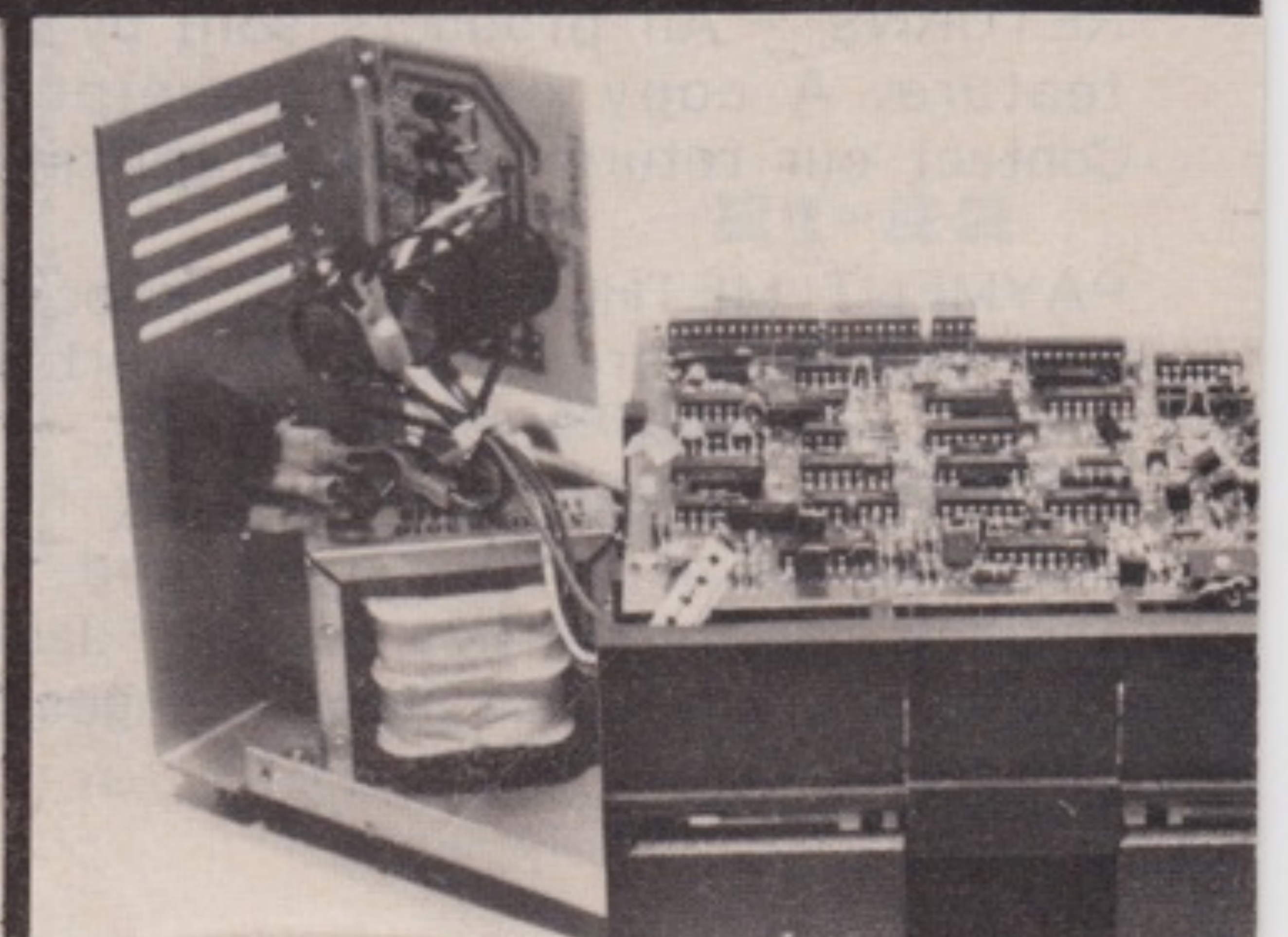
Spectrum Projects

Dear Friends,

It is with great pride that we complete another year in business supplying soft and hard wares for colorful computing. Just as the number of Color Computers and their users have grown, so has our wide and diversified selection of products as you will discover in this catalog. Most of all, we provide our customers with the finest of service. Indeed, we welcome any of your questions or suggestions... and please feel free to contact me personally.

In closing, we present this catalog in which you will discover Spectrum Projects as one of the most innovative and extensive sources of CoCo products.

Always at your service,

Bob Rosen

Bob Rosen

"Soft and hard wares for colorful computing"

While reading through our catalog, please remember :

PRICING - Due to the conditions in today's market, prices are subject to change without notice. Please be assured that it's our intention to be fair and competitive at all times. The prices in this catalog take effect approximately 11/15/84, and are in American (U.S.) dollars.

RETURNS - All products sold by Spectrum Projects carry a full 60 day replacement feature. A copy of your receipt MUST be included when a product is returned. Contact our return department first to get the proper return authorization number.

PAYMENT METHOD - Cash, check or money order is acceptable in U.S. funds only. COD payments are by cash or certified check.

NOTE - Although every effort has been made to make our products and their documentation as accurate and functional as possible, Spectrum Projects will not assume responsibility for any damages incurred or generated by such material, and reserves the right to make changes in such material at any time without notice.
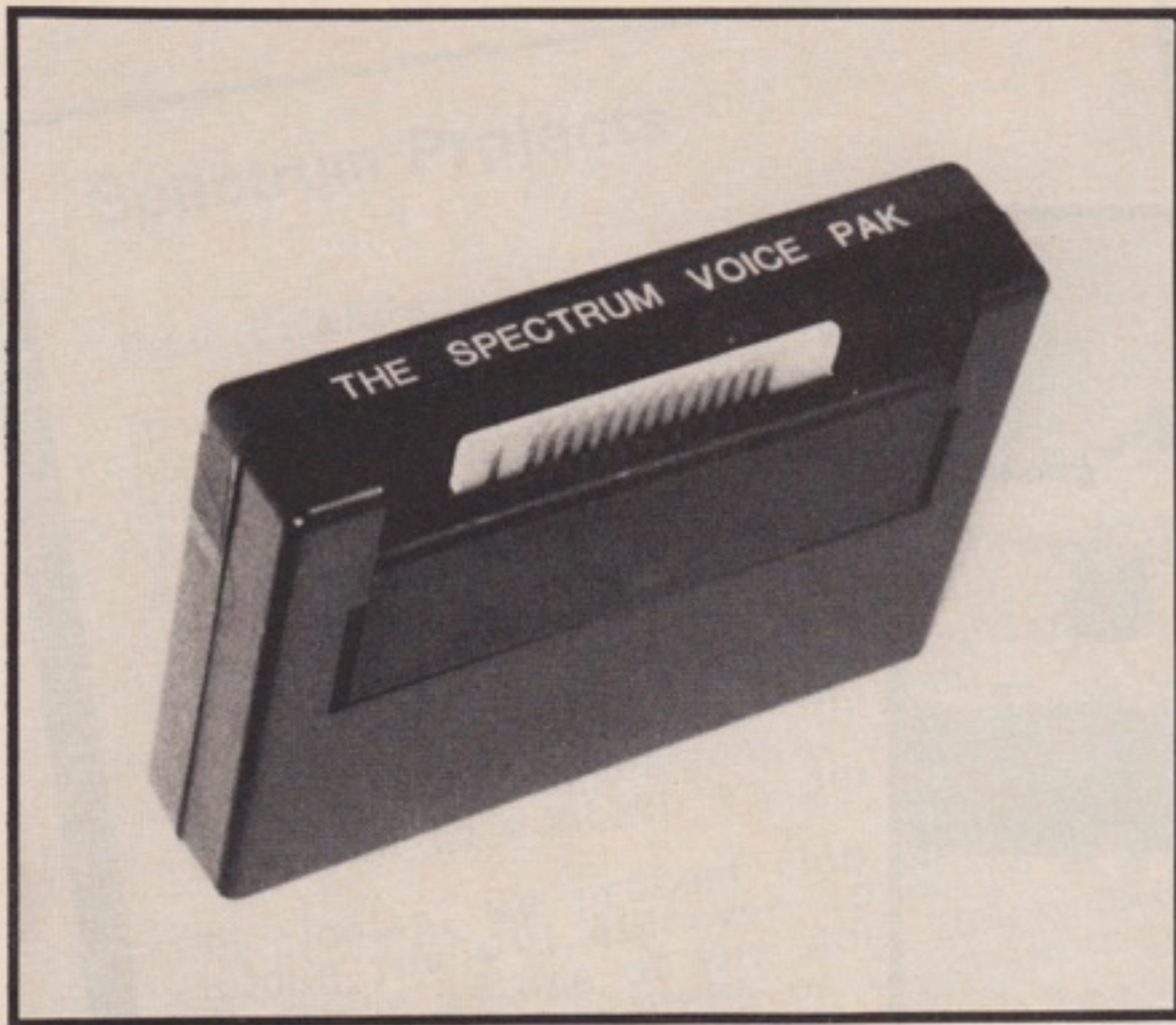
TABLE OF CONTENTS

SPECTRUM VOICE PAK

" ... a breakthrough
adding immeasurably
to the utility
of the Color Computer."

(November '83 Rainbow Review)

Now an unlimited number of new applications can be developed that take advantage of advanced voice/computer technology. Practical uses in the areas of tutorial education, speech therapy, help to the visually impaired, arcade and adventure games, robotics and security are all, both cost effective and realistic!

The SPECTRUM VOICE PAK is a simple to use complete phoneme based voice system that employs the VOTRAX SC01 speech synthesizer chip and supporting hardware in a cartridge style pak. It provides an unlimited vocabulary with automatic or user supplied inflection, plus four programmable levels of pitch.

The system comes complete with user instructions, software cassette with 16K and 32K - DISK/TAPE versions, a Word Manager that constructs and edits custom user dictionaries and a text to speech scanner translator that can be used either interactively or under user program control. With a single line of code, the VOICE PAK adds speech to any BASIC program.

Expensive multi-pak interfaces are NOT necessary for operation and all models (CoCo I & CoCo II) can work with a simple Disk "Y" cable adapter! The unit is fully assembled, tested and ready to plug in and TALK! (see Nov '83 Rainbow Review)

CoCo I - **$69.95**   CoCo II - **$79.95**

HARDWARE
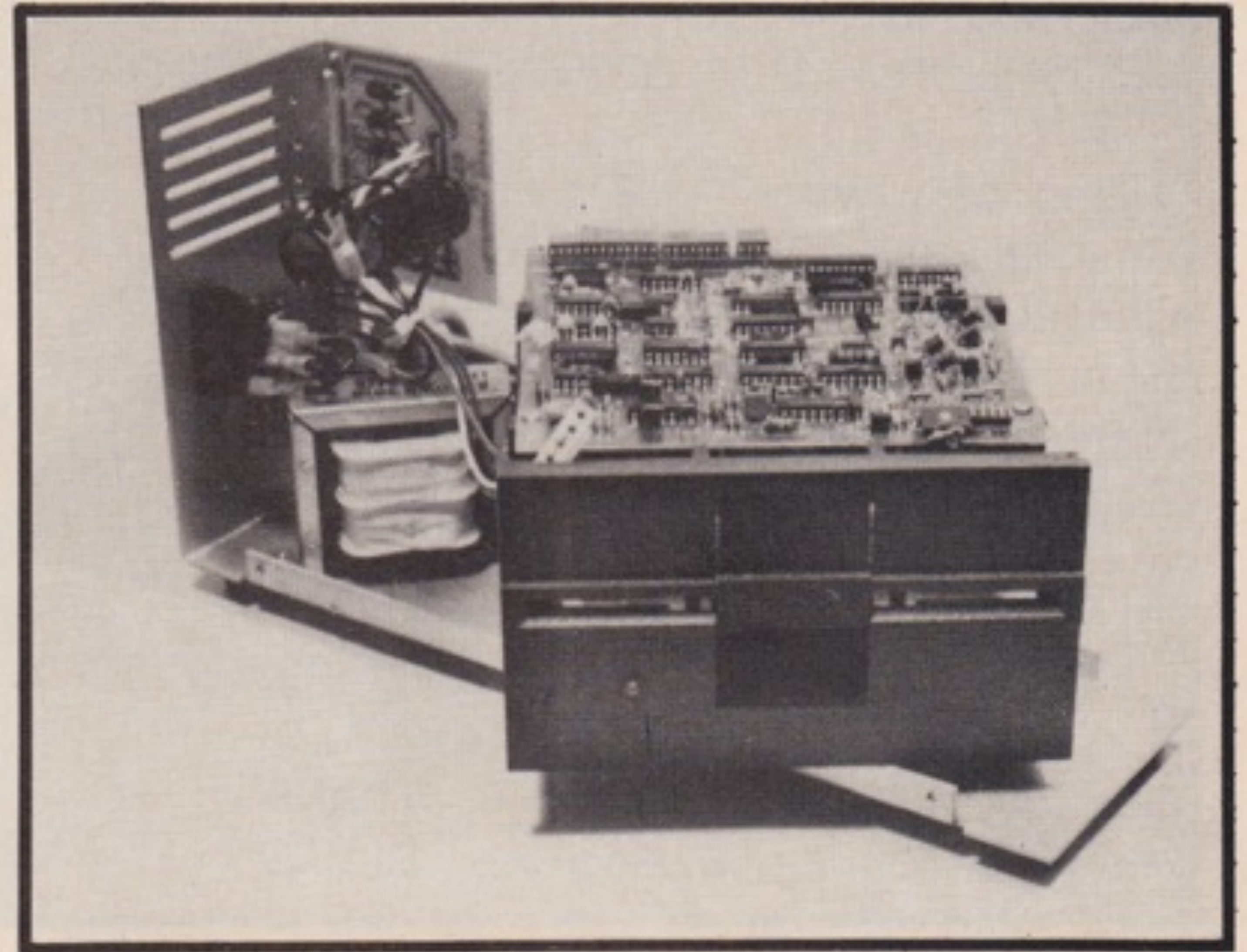
DISKS & DISK SYSTEMS

Drive 0 System - **$299.95**

Drive 1, 2 or 3 - **$169.95**

BARE Disk drive - **$129.95**

Power Supply & Case - **$59.95**

10Meg Hard Disk System - **$1495.00**

Disk Controller w/1.1 ROM - **$139.95**

All 5 1/4" disks are 40 tracks, double density with gold platted connectors.
Disk Systems include the controller interface.

MODEMS

The Mura 300 baud MINI MODEM is a self contained telephone interface that has full duplex operation, direct connection, standard RS-232-C connector, carrier detect indication and selectable originate/answer mode. Setting a new standard for quality, reliability and value. **$79.95**

Novation J-CAT has big features: auto answer, self-test diagnostics, 300 baud, LED indicators, keyboard correct mode, audio beeper plus more, in a very small package. **$129.95**

HAYES Auto dial/answer - **$239.95**

ANCHOR 300/1200 baud - **$299.95**

All modems come with interfacing CoCo cables.

HARDWARE

Picture tube:
TYPE - 12 inch, high res/anti-reflecting
DEFLECTION - 90'
PHOSPHOR - P31 GREEN / LA AMBER

Video bandwith - 18 MHz
Resolution - 800 lines in center
Characters - 80 char x 25 lines
Line frequency - 15750 Hz +- 600 Hz
Raster frequency - 60 Hz
Sound output - 0.3-5% distortion
Supply voltage - 120V/+-10%
Power consumption - 25 WATTS
Dimensions in mm - 345x300x302 (WxBxH)

GREEN Monitor w/Audio - **$ 99.95**
AMBER Monitor w/Audio - **$119.95**

BMC Color Monitor - **$269.95**
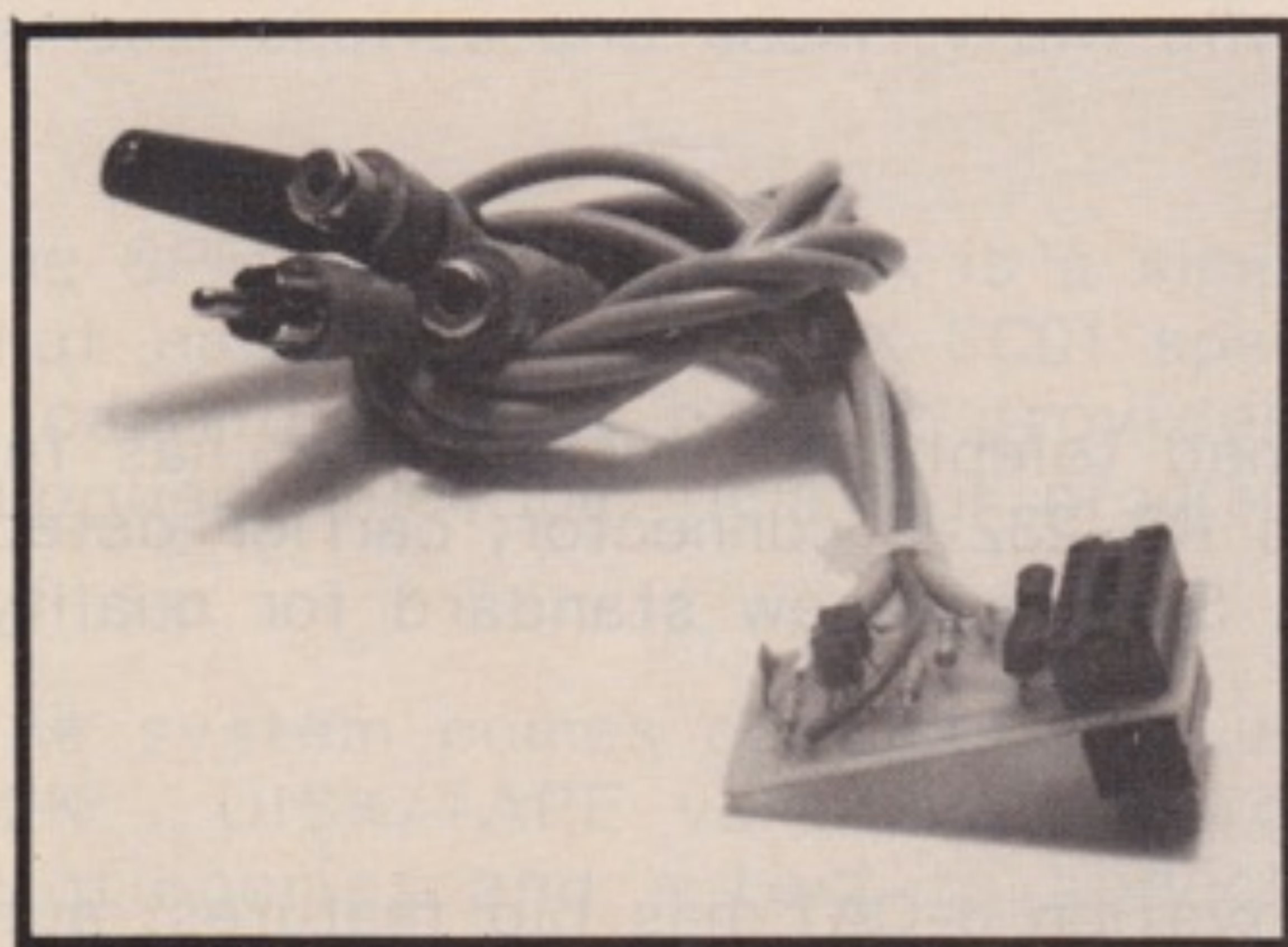
VIDEO PLUS

Connects the Color Computer to a composite video monitor and provides a crisp, clear picture with no RF interference.

VIDEO PLUS for:
CoCo I - **$24.95**
CoCo II (Monochrome) - **$29.95**
CoCo II (Color) - **$39.95**

KEYBOARDS

HJL57 PROFESSIONAL - **$79.95**
KEYTRONICS Keyboard - **$89.95**

Includes free software for function keys. Specify Model/Revision board. CoCos made after OCT'82 add $5.

HARDWARE

GEMINI-10X DOT MATRIX PRINTER

Special Features -
Self Test
Downloadable Characters
Macro Instructions
Continuous Underline
7 or 8 Bit Interface
Column Scan Bit Image Graphics
Vertical and Horizontal Tabs
Skip-over Perforation

Character Sets -
96 Standard ASCII
96 Italics
64 Special
32 Block Graphics
96 Downloadable

Print Speed - 120 cps, Bi-directional Logic Seeking

Print Buffer - 816 characters, optional 4K or 8K

Print Size - 10, 12, 17, 5, 6, 8.5 CPI

Number of Columns - 80, 96, 136, (40, 48, 68 in Double Wide)

line Spacing - 1/6", 1/8" plus Programmable by n/144" or n/72"

The power behind the printed word. **$299.95**

PBH INTERFACE

The PBH CoCo Serial Interface provides the Radio Shack Color Computer with a parallel printer port suitable for most Centronics compatible printers. Selectable baud rates range from 300 to 9600. The interface also extends the Color Computer serial port to a four pin DIN connector for switched operation of a modem or other serial device without recabling. **$69.95**

HARDWARE
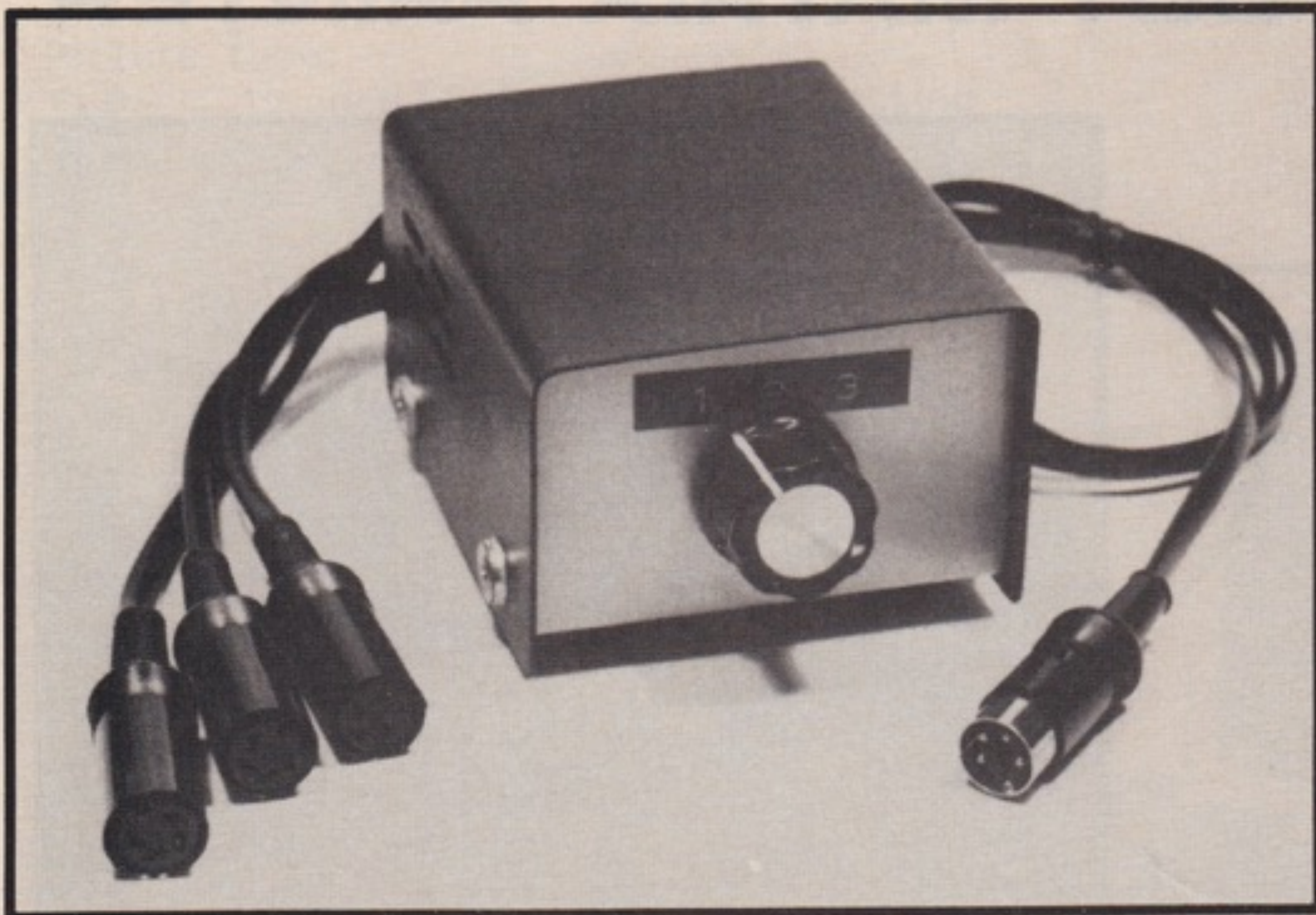
TRIPLE RS-232 SWITCHER

Select one of any three RS-232 perepherals. **$29.95**

64K-128K UPGRADE

Add another bank of 64K to your Color Computer! **$149.95**

DOS SWITCHER

Select any DOS (Disk 1.0, 1.1 or JDOS) inside J&M controller. **$24.95**

STEREO SYNTHESIZER

Dual audio power amplifiers, high precision 8 bit digital converters, a full seven octive range plus three hours of four voice songs. **$79.95**

16K DOS CARD

Plugs into the J&M controller and allows you to map an extra 8K EPROM above DOS. Great for utilities! **$24.95**

LIGHT PEN

Comes with six demonstration programs and sample instructions for using a light pen with BASIC code. **$24.95**

PBJ WORD PAK

80 characters X 24 lines video board. **$139.95**

HARDWARE

COCO COOLER

Air out your hot chips and prevent unwanted heat buildup inside your Color Computer. Keeps things cool and running smoothly. Please state D, E or CoCo II. **$49.95**

EPROM PROGRAMMER

Intronics EPROM Programmer takes only fifteen seconds for a 68764 and handles all popular EPROMs. **$139.95**

SPECTRUM SWITCHER

Expands the Color Computer into a two slot system so that now, you can have your disks and cartridge too! **$69.95**

VOICE CHIP

The same chip used in the Spectrum VOICE PAK, the VOTRAX SC01 voice synthesizer. Ideal for that talking electronics project. **$34.95**

MACH II JOYSTICK

Easily beats the others in value and performance. The MACH II provides full 360 degree control with spring or positive true positioning, plus it has an electrical trim adjustment on both axes. **$39.95**
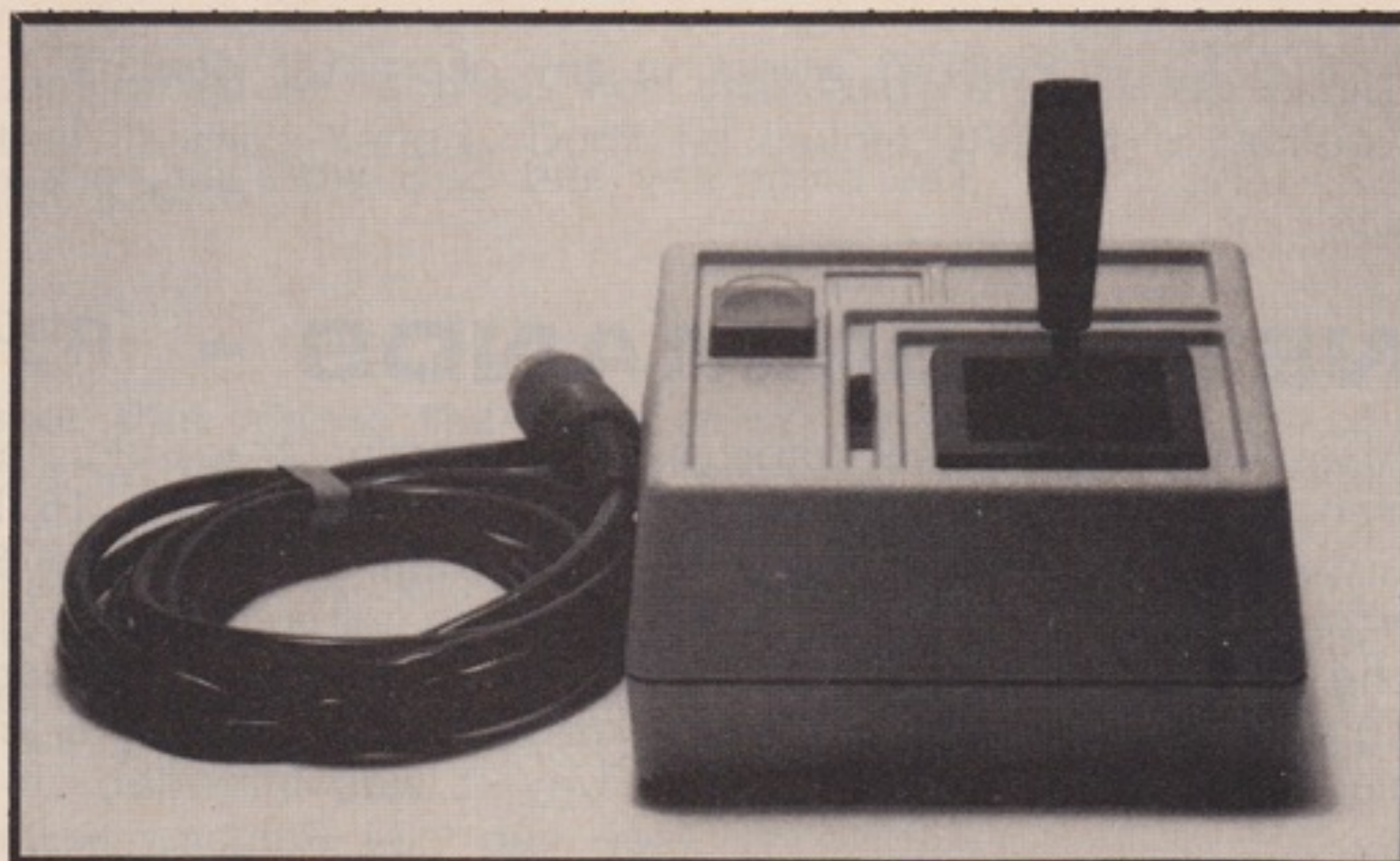
SPECTRUM DOS

The Color Computer Operating System that puts the pizzazz back in processing by adding twenty-four new commands, new features, command fixes plus a high resolution screen. You can use SPECTRUM DOS straight as it comes without making any modifications, customize it to your own machine configuration with the supplied setup program or burn the system into an EPROM for even faster processing.

NEW FEATURES -

Any type of drive can be added (35/40/80 TRACK)

Modify the drive seek rates for any or all disks

Auto Disk Searches all drives for a program

One button text screen dump

Commands can be in lower case

New cursor can be any character

New prompt can be anything you want

Auto key repeat and RESET protected

DSKINI lets you know what it is doing

DIR prints out side by side

HI-RESOLUTION SCREEN -

32, 51 or 64 Characters per line

True upper and lower case letters

PRINT@ works in any character density

The clear key and CLS work as normal without control codes

NEW COMMANDS -

Allow for extensive user program error trapping, load and exec machine language programs in a single step, display and store 16 bit values in one operation, automatically add line numbers when inputting a BASIC program, restore lost programs, send the Directory to the screen and print it at the same time, disable the BREAK key, copy and delete BASIC lines, invert the screen display, echo all screen output to a printer, define up to 9 programmable function keys plus much, much more! Run your CoCo the way it was intended to function! 64K DISK **$49.95**

(see Aug ' 84 Rainbow Review)

SOFTWARE

DISK UTILITY

A multi-featured tool for USER FRIENDLY disk handling. Utilize a directory window to selectively sort, move, rename and kill file entries. Lightning fast Disk I/O for format, copy and backup. Examine the contents of files, the Granule Table, plus the size, load addresses and entry points of all programs. Single command execution of both BASIC and ML programs. 32K/64K DISK **$24.95** (see Oct '84 Rainbow Review)

BJORK BLOCKS

A powerful graphic utility developed by Steve Bjork for his own use in designing screens for the games he writes. As such, the program is weighted in favor of efficient storage of graphic information. Only one joystick is required for precision drawing, color selection and (64K only) animation. TAPE/DISK 32K/64K **$34.95**

COCO CHECKER

Something possibly wrong with your CoCo? The CoCo CHECKER is the answer! Will test your ROMs, RAMs, Disk Drives & Controller, Printer, Keyboard, Cassette, Joysticks, Sound, PIAs, VDG, Internal Clock Speed, and more! TAPE/DISK **$19.95**

SUPER SCREEN MACHINE

A hi-res graphics text display utility that overcomes the greatest shortcoming of the Color Computer, the plain black on green, low density text display that can't be combined with hi-res graphics. Contains four standard and four double-width character densities in PMODE 4, two distinct character sets, easy to use 2-letter commands, variable scroll rates, full error checking plus more. DISK **$49.95**

TAPE OMNI CLONE

Easily handles programs with auto loaders, no headers, no EOF markers, unusual size blocks, etc. Now is the time to get your tape software collection protected against loss! TAPE **$24.95**

DISK OMNI CLONE

Back everything up! This amazing program handles "non standard" disks with ease. We haven't found any disk yet that it can't handle. Don't be caught without a backup again. Lowest price too! 32K DISK **$29.95**

THE COCO CALLIGRAPHER

A special purpose text processor that allows the input of up to seventeen lines of editable text which is then output to the printer in a selected special font style (Old English, Gay 90's, etc.). The text is output as approximately 36 point (1/2 inch) letters, variably spaced (average of 13 uppercase or 26 lower case per line). For some printers you can also use a special condensed mode which will allow for double the number of characters. The printing is well suited for signs, flyers, invitations or labels. It requires 32K Extended BASIC and a printer capable of bit image graphics. DISK **$29.95**

SOFTWARE

BLACKJACK ROYALE

A Hi-Res graphics casino blackjack simulation and card counting tutor. Fully realistic play includes: double down, splits, surrender, insurance bets, 1-8 decks, burnt cards, shuffle frequency and more! "This fine program is a must for the CoCo Blackjack player." Aug '83 Rainbow 32K TAPE/DISK **$24.95**

64K DISK UTILITIES

A three part package of utilities that lets the user take full advantage of the expanded memory of a 64K Color Computer.

'40K' relocates the Extended BASIC ROM and leaves an additional 8K more of RAM free for your BASIC or machine language programs. An experienced programmer has the ability to patch and modify the BASIC ROMs which are now in RAM. A machine language program may also replace the ROM BASIC and have the full 64K available!

'ROM-PAK to DISK converter' is the answer for any person with a color disk system who uses ROM-PAK software and knows that the constant plugging and unplugging of the disk controller can damage the contacts on the computer and on the controller interface. A complete set of procedures to move ROM-PAK software to disk is provided.

'SPOOLER' allows the user to output data to a RAM buffer at high speed and then go back to other processing while the information is being simultaneously printed. After filling the unused 32K in a 64K CoCo as a print buffer you can do any operation as normal. DISK **$21.95** (see July '83 Rainbow Review)

HIDDEN BASIC

The objective is simple: Protect your BASIC programs. This utility will not affect the speed of execution, ability or performance of any program. Once a program has been modified (HIDDEN) the following commands will not function: CLOAD, CLOADM, CSAVE, CSAVEM, DEL, EDIT, EXEC, LIST, MEM, TRON or TROFF. The protected copy is NOT a BASIC program anymore. It is a special machine language program referenced by the BASIC interpreter. TAPE **$19.95** (see Sept '83 Rainbow Review)

THE MAGIC BOX

The Magic Box is a special purpose utility designed especially to load TRS-80 Model I/III 500 baud BASIC programs into the Color Computer. As such, it will allow an entire new spectrum of software to become available to Color Computer owners.

Because the Magic Box software is very sensitive to the volume of the tapes being loaded in, a calibration routine is provided which will allow the user to properly set the volume of the recorder. After the program is loaded into the Color Computer, the Magic Box will partially convert it to Extended Color BASIC and return control to the CoCo.

The supplied documentation includes: program theory of operation, conversion techniques and guidelines for getting your favorite MOD I/III BASIC programs up and running on the Color Computer. TAPE **$24.95**

SOFTWARE

FHL O–PAK

A three-part package designed to enhance the OS-9 Operating System for the Color Computer. HiRes is a program which provides a higher resolution screen display with a variety of character sets plus the ability to mix graphics and text on the same screen. The CSEdit program allows for the building of new character sets or the modification of the ones supplied. The X utilities permit the transfer of some data files from Disk BASIC or FLEX to an OS-9 disk format. DISK **$34.95**

COCO SCREEN DUMP

The best screen dump program for the Epson & Gemini printers ever! Have the option of standard or reverse images with regular or double sized pictures. 600 - 900 Baud too! A must for Graphicom and Bjork Block users. 16K TAPE/DISK **$19.95**

DEFT PASCAL

A fully recursive, single pass Pascal language compiler for the CoCo. It compiles Pascal programs directly into machine language code that can be executed directly by the 6809 microprocessor. The system generally supports most standard Pascal constructs, and in addition, supports many extensions to the standard language which makes text processing, multi-language and system type programs easier to write. DISK 32K/64K **$79.95**

MASTER DESIGN

A text designer/editor to generate graphics mode lettering with multiple font sizes, textures, shadowing and thicknesses, plus special patterns for creative backgrounds. Comes with a screen print routine and a Letter Head Utility that easily interfaces with Telewriter-64 and BASIC. DISK **$34.95** (see July '84 Rainbow Review)

DYNACALC

The electronic spread-sheet for the Color Computer with its own built in operating system that provides up to 256 columns by 256 rows of cells for numbers, strings or expressions. The program uses high speed sixteen-digit precision for numeric operations and built in functions, and has a full complement of high resolution graphics capabilities. A full range of sorting, formatting, editing and storage features are also supported. 64K DISK **$79.95** (see Sept '84 Rainbow Review)

BASIC COMPILER

Convert BASIC programs into machine language. Produce faster and more compact code than BASIC. INTEGER compiler with 16K/64K versions included. TAPE **$39.95**

PRO–COLOR–FILE ENHANCED

A flexible database system comprised of routines that permit the user to design his own information storage and retrieval program to enter records on disk, search the records for updating and generate screen or printed reports. 60 Data Fields, 8 Report Formats, 1020 bytes per record, Sorts 3 Fields, 4 Screen Formats, Duplicate records and fields, Global Search. DISK **$79.95** (see June '84 Rainbow Review)

SOFTWARE

COLORAMA

A first-class Bulletin Board package... especially geared towards CoCo users... has an ordering section for those who want to run a mail-order business... supports Color Graphics... one nice piece of work. July '84 Rainbow 64K DISK **$99.95**

TELEWRITER-64

For over two years, this package has been the top professional word processor for the Color Computer. Features include: 3 screen display formats- 51/64/85 columns by 24 lines, true lower case characters, a user-friendly full-screen editor, right justification, easy hyphenation, drives any printer, embedded format and control codes, runs in 16K, 32K or 64K, menu-driven disk and cassette I/O plus no hardware modifications are required. TAPE **$49.95** DISK **$59.95** (see June '83 Rainbow Review)

MASTER MAIL

Easy to use... handles 1000 addresses per single disk... FORM LETTER produces multiple letters... For serious applications. Jan '84 Rainbow 32K DISK **$49.95**

MICROWORKS MACRO-80c

All the features the serious programmer wants in a disk-based Editor, Assembler and Monitor for debugging. The package includes a powerful 2-pass macro assembler with conditional assembly, local labels, include files and cross referenced symbol tables. It supports the complete Motorola 6809 instruction set in standard source format plus has added instructions and pseudo-ops for greater power and flexibility. The screen-oriented editor is designed for efficient and easy use while the monitor allows examining and altering of memory, setting break points, etc. All features and options are detailed in extensive documentation. DISK **$99.95**

FAST DUPE II

The fastest Disk copier ever! Will format and backup a diskette in only one pass and can make up to 4 Disk copies at once in 2 minutes! The must utility for every Disk owner. 32K/64K DISK **$19.95** (see May '84 Rainbow Review)

COLORCOM/E

A smart terminal program designed to allow easy communication with a wide variety of computers, bulletin boards and information services. Colorcom/E features accurate, full duplex communications at up to 1200 baud. Advanced features include upload and download support, printing, 64K operation, direct file transfer for any type of file, optional high resolution display. In addition, an Automatic mode can be used for "programming" frequently repeated sequences into the program. ROMPAK or DISK **$49.95** (see Feb '84 Rainbow Review)

FAST TAPE

Save and load cassette files at twice the speed! Now you can run tape and printer I/O operations in the high speed mode without a locked up system or I/O ERRORS. "If you are tired of waiting for those long tapes to load, I strongly recommend that you buy this fine utility." July '84 Rainbow TAPE **$21.95**

SOFTWARE

SCHEMATIC DRAFTING PROCESSOR

Speed, ease of use, and friendly prompts facilitate the design of professional looking schematic diagrams. The processor makes use of six overlapping screens to construct a 480 X 540 pixel worksheet, and has over thirty electronics symbols with up to ten user definable symbols. Create diagrams using logic gates and multipin chips, save and load the schematics to disk, dump hard copy to a graphics printer. 64K DISK **$49.95** (see Jan '84 Rainbow Review)

GRAPHICOM

The ultimate Color Computer graphics development tool with sophisticated editing, preview animation, telecommunications and printer support. High resolution graphics for only **$24.95.** 64K DISK (see April '84 Rainbow Review)

TAPE/DISK UTILITY

Provides a menu driven selection system to easily maintain, backup and catalog both tape and disk programs. Operations are initiated by three-letter commands to get a tape directory, tape-to-tape copy, list a tape directory to the printer, a directory of disk files, print it, copy files from disk-to-tape, tape-to-disk plus a complete disk backup to tape. TAPE/DISK **$24.95** (see Sept '83 Rainbow Review)

EZ BASE

A truly user friendly data base program at an affordable price. Maintain inventories, hobby collections, recipes, greeting card lists and much more! Hi-Res screen, up to 500 records with 15 fields, record or field search, and a special Mailing Labels option. 32K DISK **$24.95** (see July '84 Rainbow Review)

MULTI-PAK CRAK

A machine language disk program that uses the Radio Shack Multi-Pak Interface to save ROMPAK software to your 64K DISK system. You minimize Color Computer wear and tear on the controller contacts by eliminating the constant plugging in of ROMPAKs by keeping all your PAK software on disk. The program moves the ROMPAK into memory, copies 2K to 4K of code, depending on how large the object program is, adds one of two loaders (auto-start or manual EXEC) and then writes the software to disk. The supplied documentation lists POKEs for a number of "PROBLEM" ROMPAKs. DISK **$24.95**

64 COLUMN MOD I/III EMULATOR

Gives the Color Computer a 64 X 16 character screen format for those wanting to run TRS-80 MOD I/III BASIC graphic routines. The program allows the MOD I/III SET, RESET, POINT, PRINT@, CHR$ and CLS commands to work the same on the CoCo. This is accomplished by using the PMODE 4 screen of the CoCo and rewriting the ROM routines into RAM. The program does not attempt to resolve incompatibilities or fix language differences between the machines. This routine allows a person to type or load a Model I/III BASIC program in on the Color Computer and not have to change the graphics statements. (NOTE - some software may require special CoCo loaders such as the Magic Box or be downloaded using communications software like COLORCOM/E). 64K DISK **$19.95** (see May '84 Rainbow Review)

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TALKING SOFTWARE

The Spectrum VOICE PAK adds a new dimension to colorful computing. Now capture a pirate king or find the wizard's treasure, communicate with bulletin boards, information networks and other computers, save the world from a nuclear threat, learn a foreign language, play Bingo, and all with the sound of voice.

SPECTRUM ADVENTURE GENERATOR

Provides all the tools to create scenarios and programmed responses to very specific player reactions for simple or complex adventure games. A series of simple menu driven text editors generate source code that along with the program plot is compiled into 100% Machine Language that is very fast in execution. Silent adventures require a 32K CoCo, but when used with the Spectrum Projects VOICE PAK and a 64K machine, the user may compile TALKING adventures. Up to 70 command verbs, 255 objects, 99 rooms, 255 conditional flags, 510 help messages and responses are available and may be defined. 64K DISK **$39.95**

TERMTALK

Will allow you to communicate with practically every computer, special information service or bulletin board that has a 300 BAUD interface. An ASCII based communication program that in addition to printing incoming and outgoing text on the screen, is capable of speaking the text. Features include: Download programs and text files, save and load buffers to tape or disk, split or full screen, normal or reverse display, fill buffer prior to logging on, change communication protocols and much more! 16K EXT   TAPE **$39.95**   DISK **$49.95** (see March '84 Rainbow Review)

THE FINAL COUNTDOWN

You are outside a missle base which has just been evacuated because a beserk General has started the countdown on a nuclear missle - target: MOSCOW. Your mission is to stop the missle launch and prevent the impending calamity of World War III. Has multiple voices for added realism! 32K EXT **$24.95**

EDUCATIONAL LEARNINGWARE

From the authors of quality children's software for leisure and learning at Computer Island. These educational programs turn your Color Computer into a true teaching machine by reinforcing basic lessons with the aid of voice. The three pack talking tutorial includes: Math Drill, Spelling Tester and Foreign Languages. 16K EXT **$24.95**

TALKING COCO BINGO

N 32... B 26... I GOT IT !!! a WINNER !!! Same as the popular game of BINGO but this one talks. The complete kit contains twenty (20) Bingo player cards, two hundred (200) markers plus complete documentation on game rules and variations. Additional features: Color Graphics, three (3) timing levels of play, ball count and pause control. Comes on Tape but is also Disk compatible. 32K EXT **$24.95**
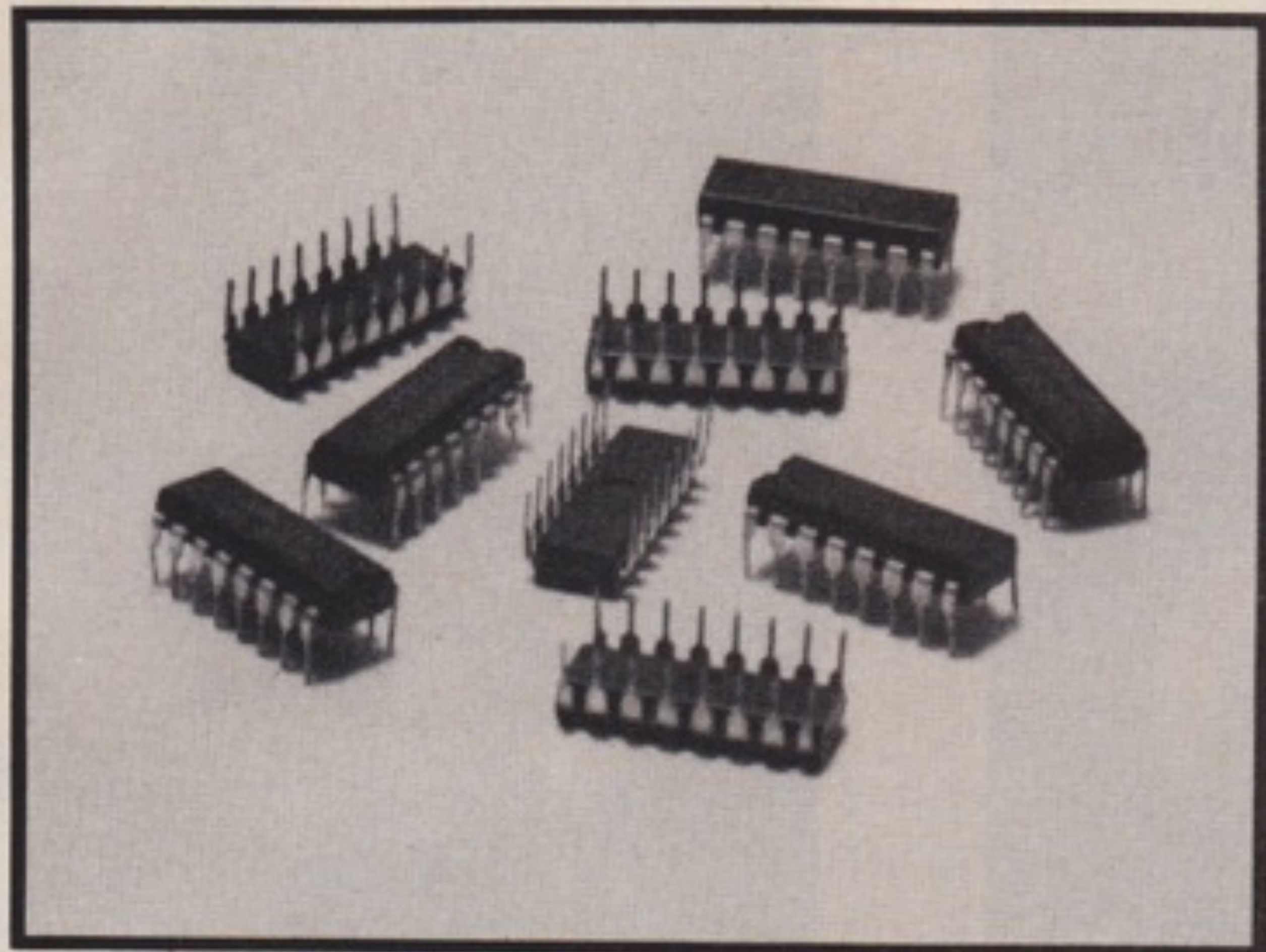
CHIPS

SPECIAL !
64K RAM CHIP SETS
$49.95

Comes complete with specifications and memory upgrade instructions.
Now you can add the POWER of 64K to your Color Computer!

MAJOR CHIP REPLACEMENTS

6821 Standard PIA - **$9.95**

6822 Industrial Grade PIA - **$14.95**

MC1372 Video Driver - **$14.95**

6847 VDG - **$17.95**

68764 (Ext BASIC Skt) EPROM - **$24.95**

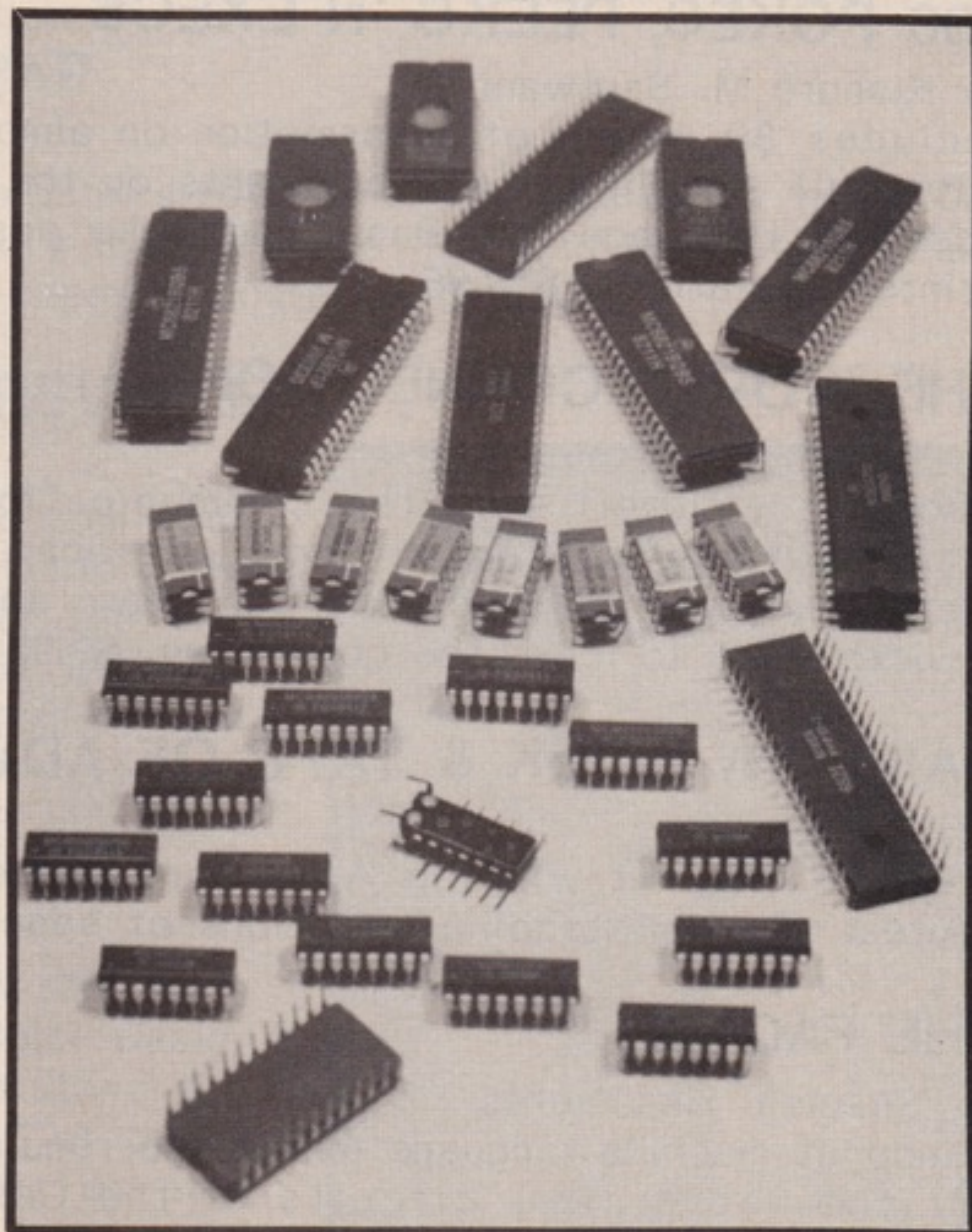16-64K RAM Checker (ROMPAK) - **$24.95**

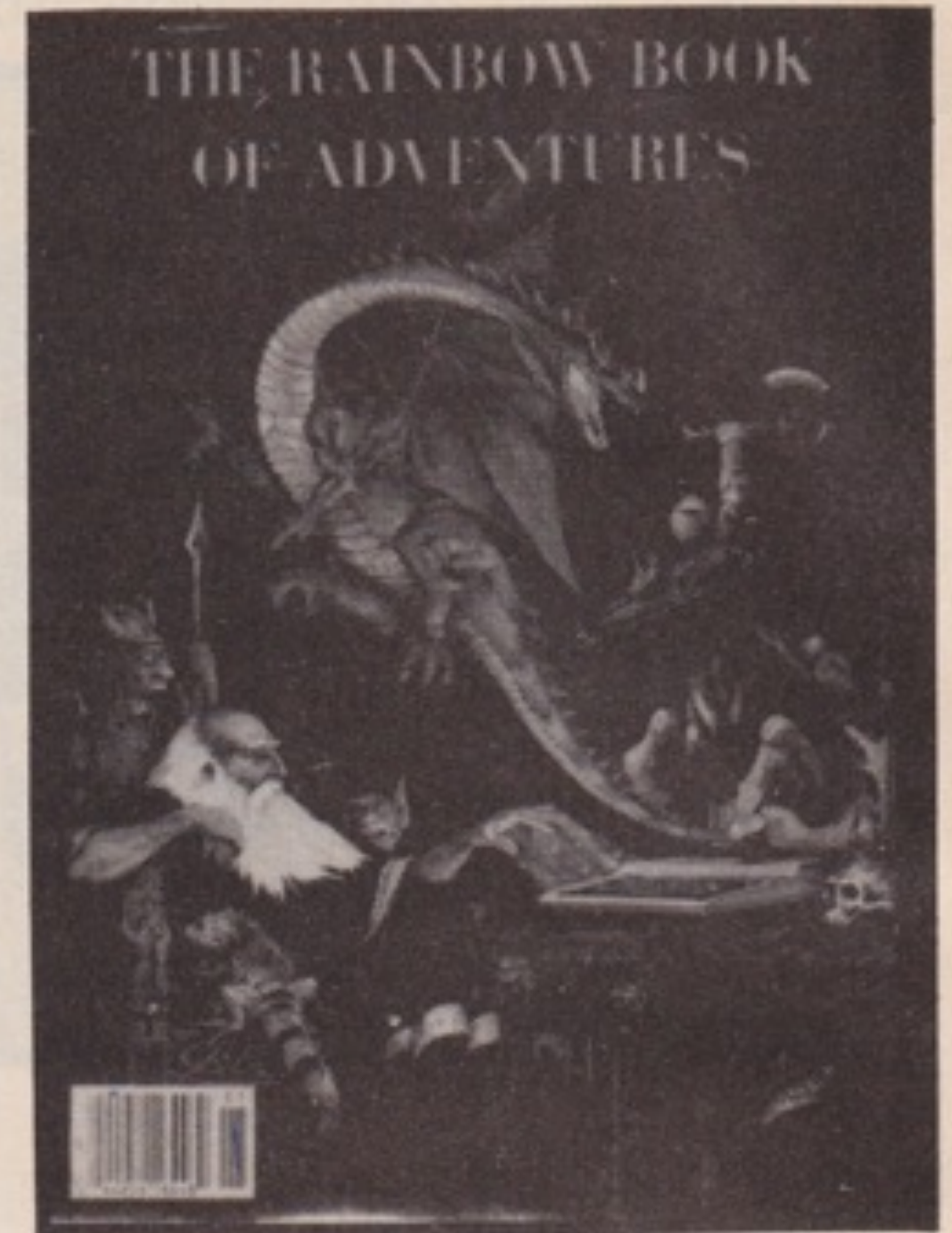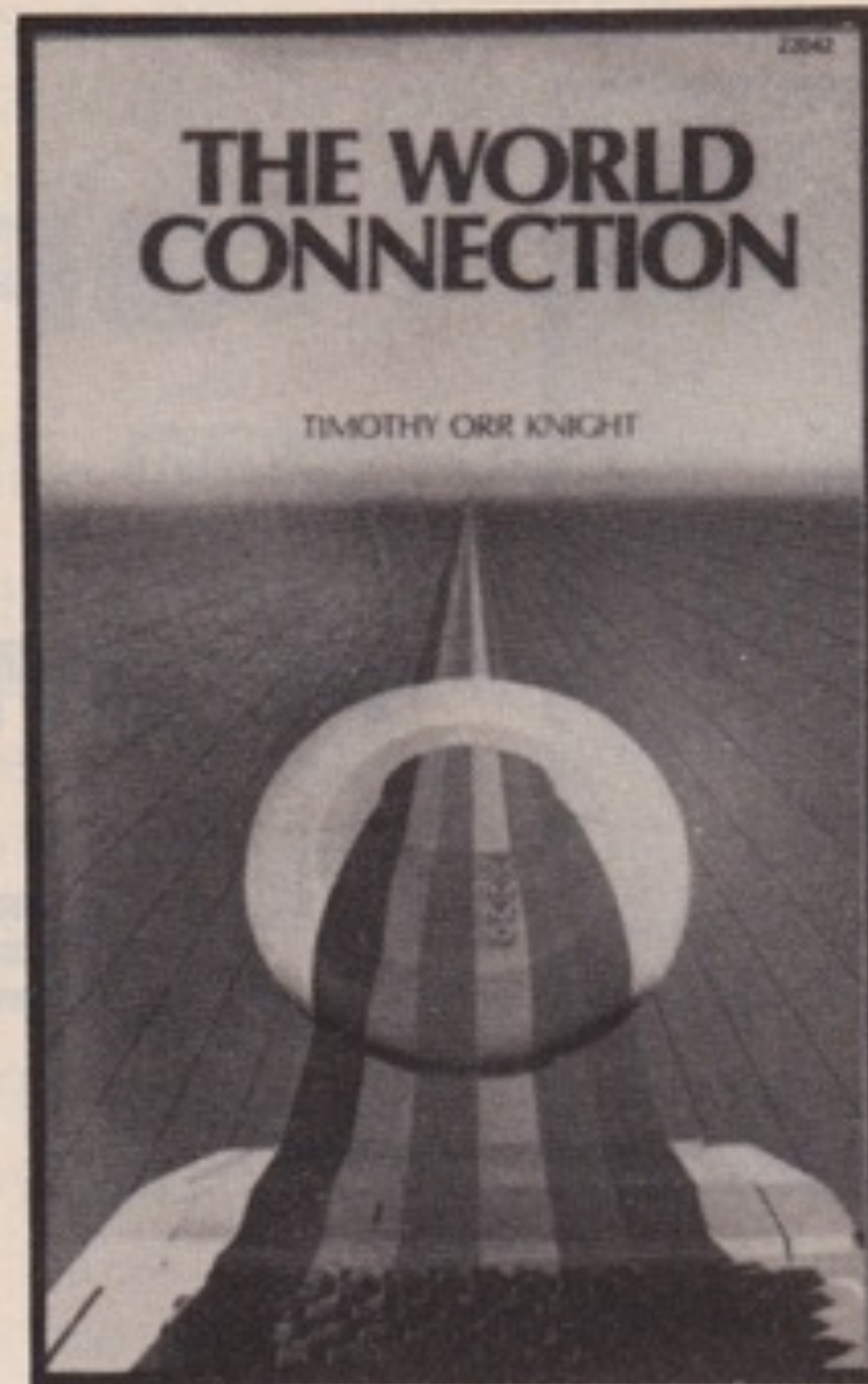6883 SAM with Heat Sink - **$29.95**

6809E CPU - **$29.95**

BASIC ROM 1.2 - **$39.95**

Disk BASIC ROM 1.1 - **$39.95**

Ext BASIC ROM 1.1 - **$49.95**

CoCo First Aid Kit - **$69.95**
  (2 PIAs, 6809E & 6883)

COCO LIBRARY
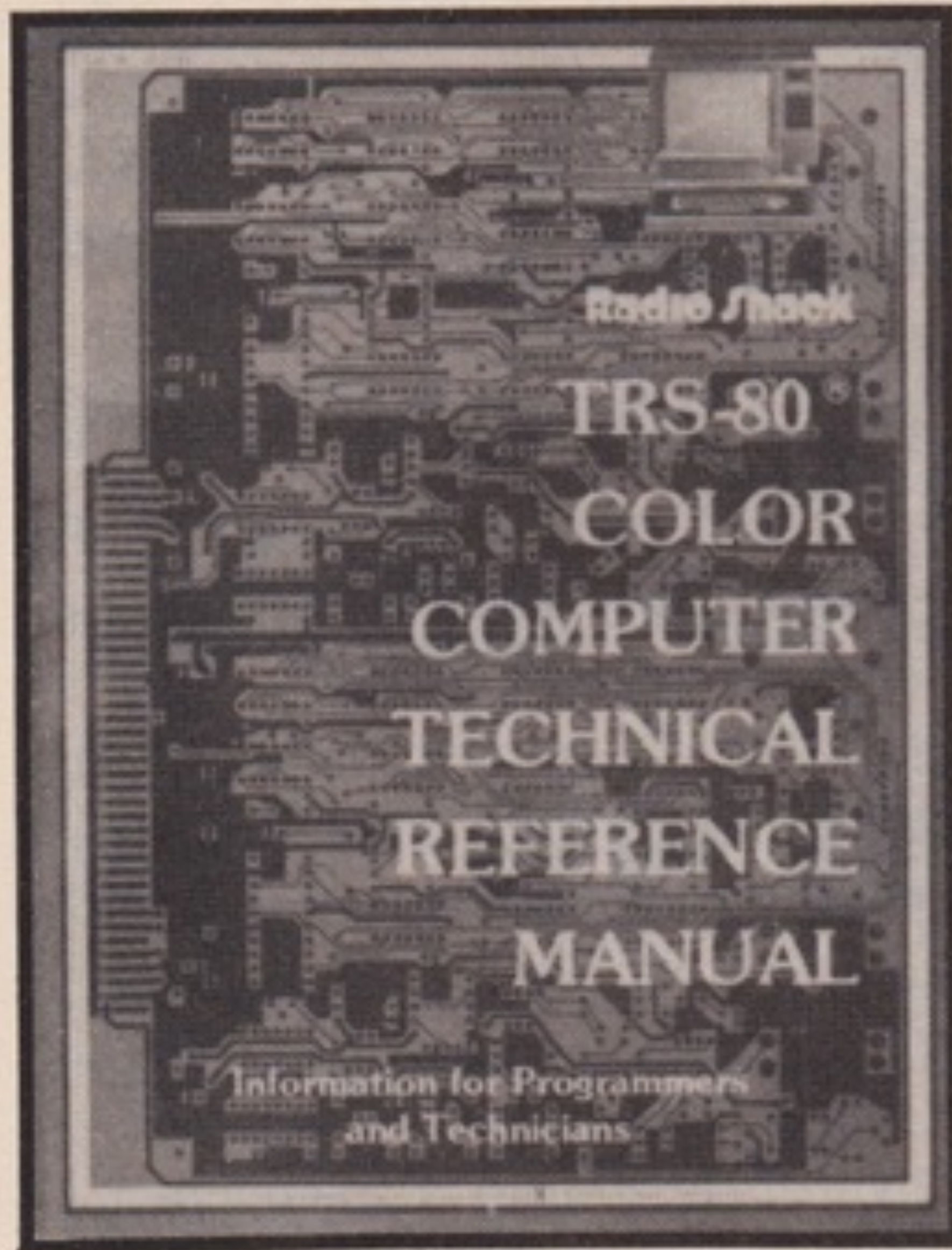
COCO TECHNICAL REFERENCE MANUAL

by Radio Shack

For CoCo I owners with a thorough understanding of electronics and computer circuitry. Includes: the theory of all major chip components, troubleshooting procedures, parts lists, printed circuit board and technical schematics. **$7.95**

500 POKES, PEEKS 'N EXECS

by Kishore M. Santwani

Includes 80 pages of information on almost ALL POKE, PEEK and EXEC commands with full explanation and comments on the use of each command. Gain the power of Assembly Language thru Basic and make possible various intricate cassette, disk and printer operations. **$16.95**

THE WORLD CONNECTION

by Timothy Orr Knight

Acquaint yourself with the communications terminology, the equipment and the procedures to connect a home personal computer to information networks, other computers and bulletin boards. Learn about modems, sysops and all the hardware devices used to make the connection. **$9.95**

RAINBOW BOOK & TAPE OF ADVENTURES

by The Winners

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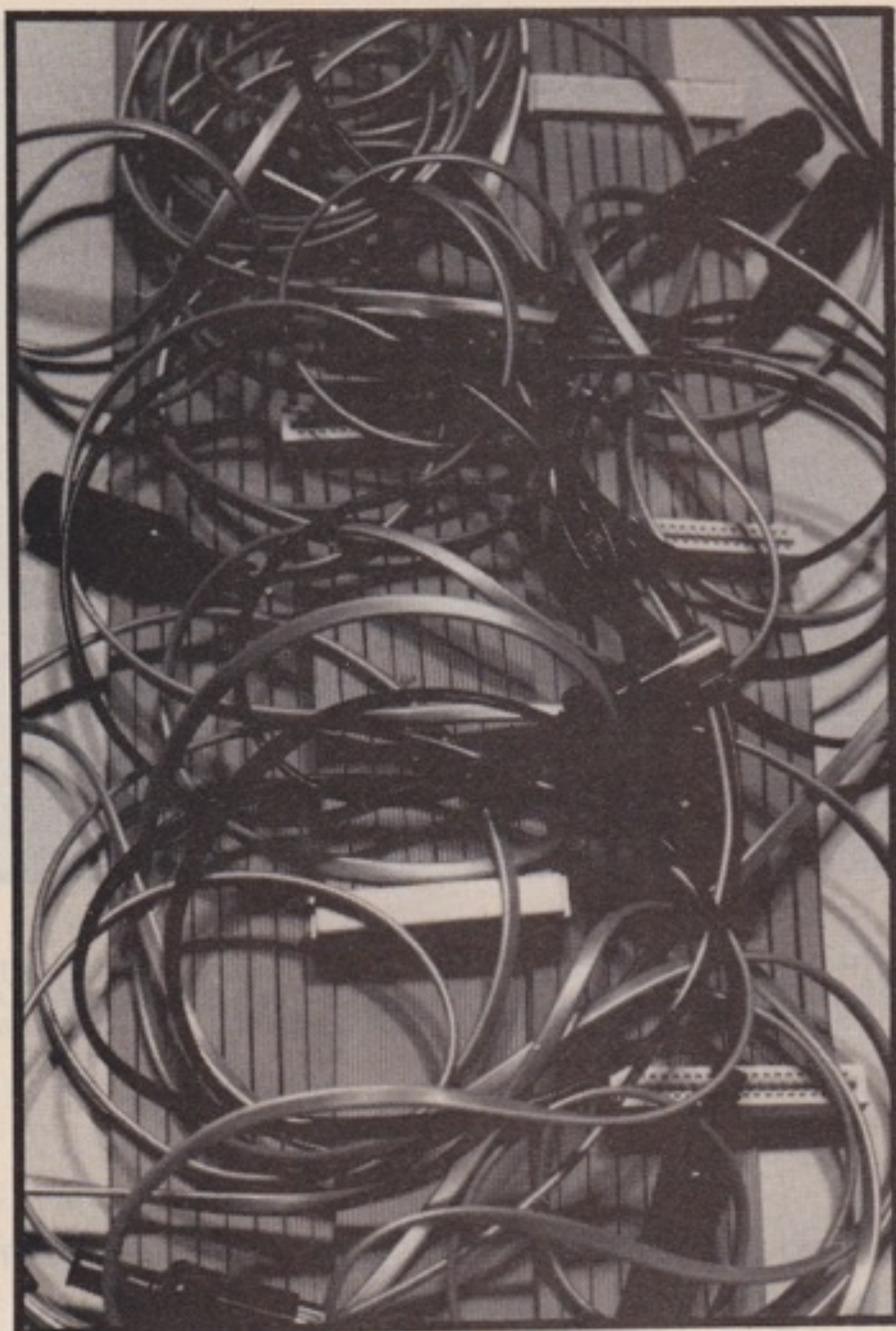
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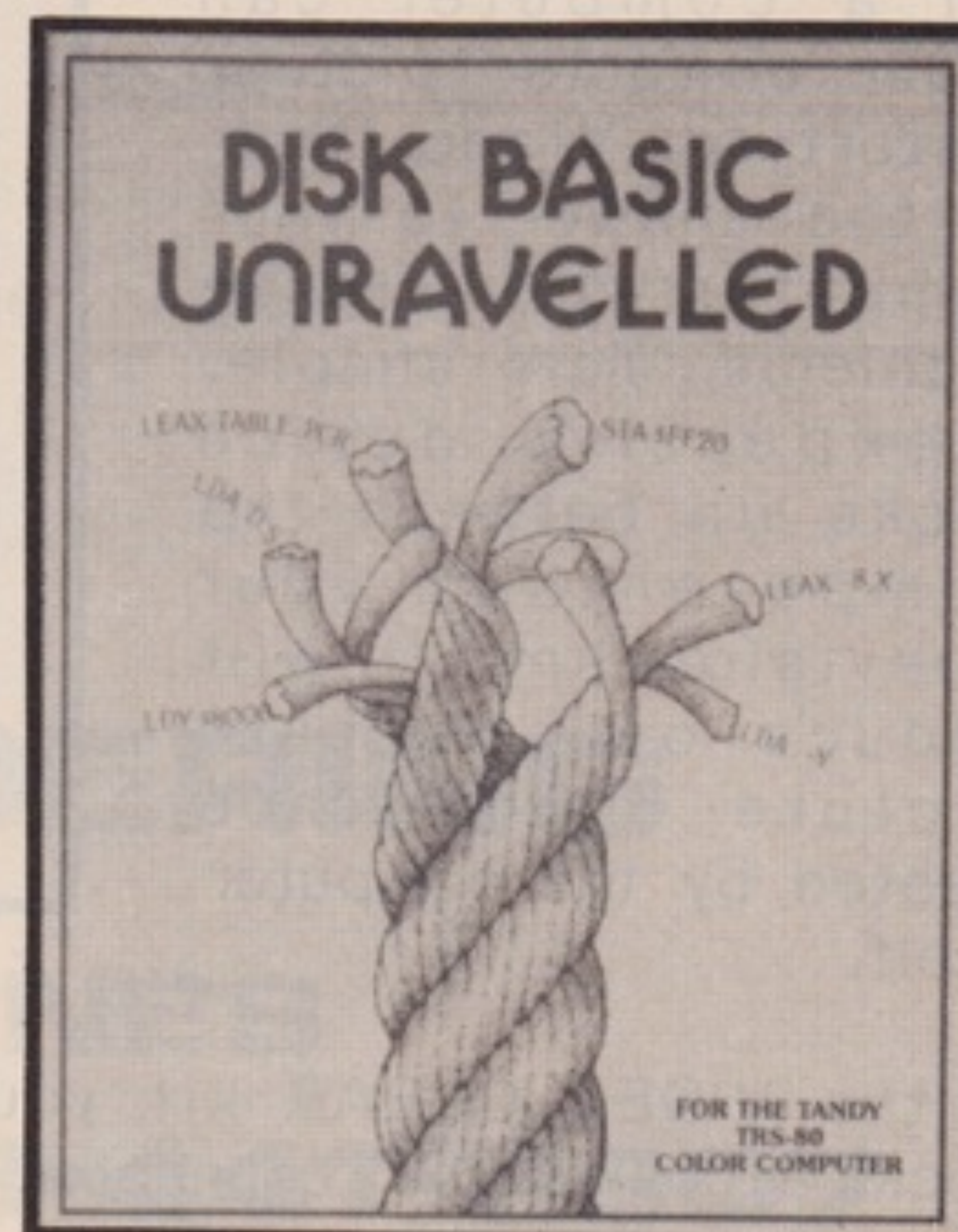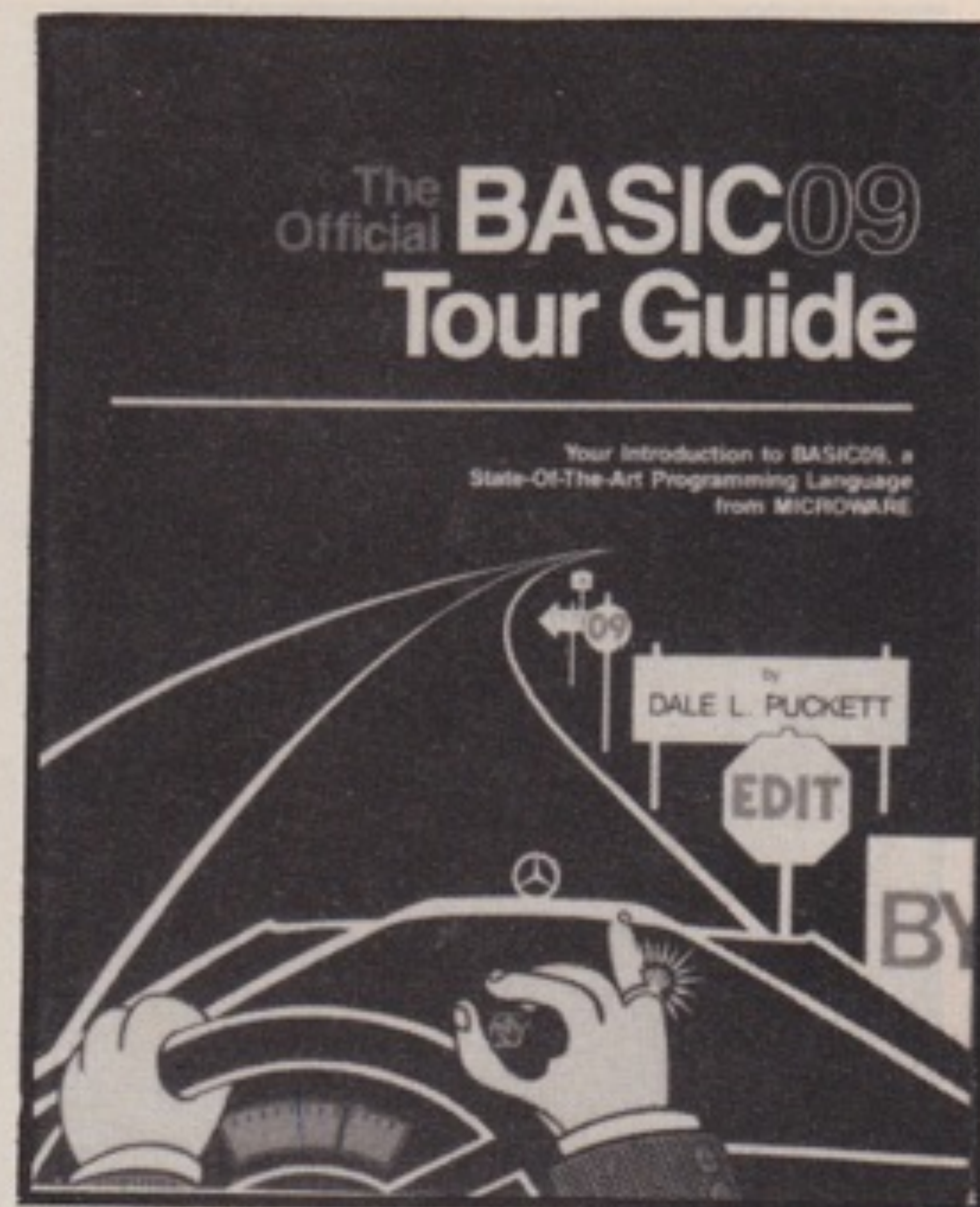
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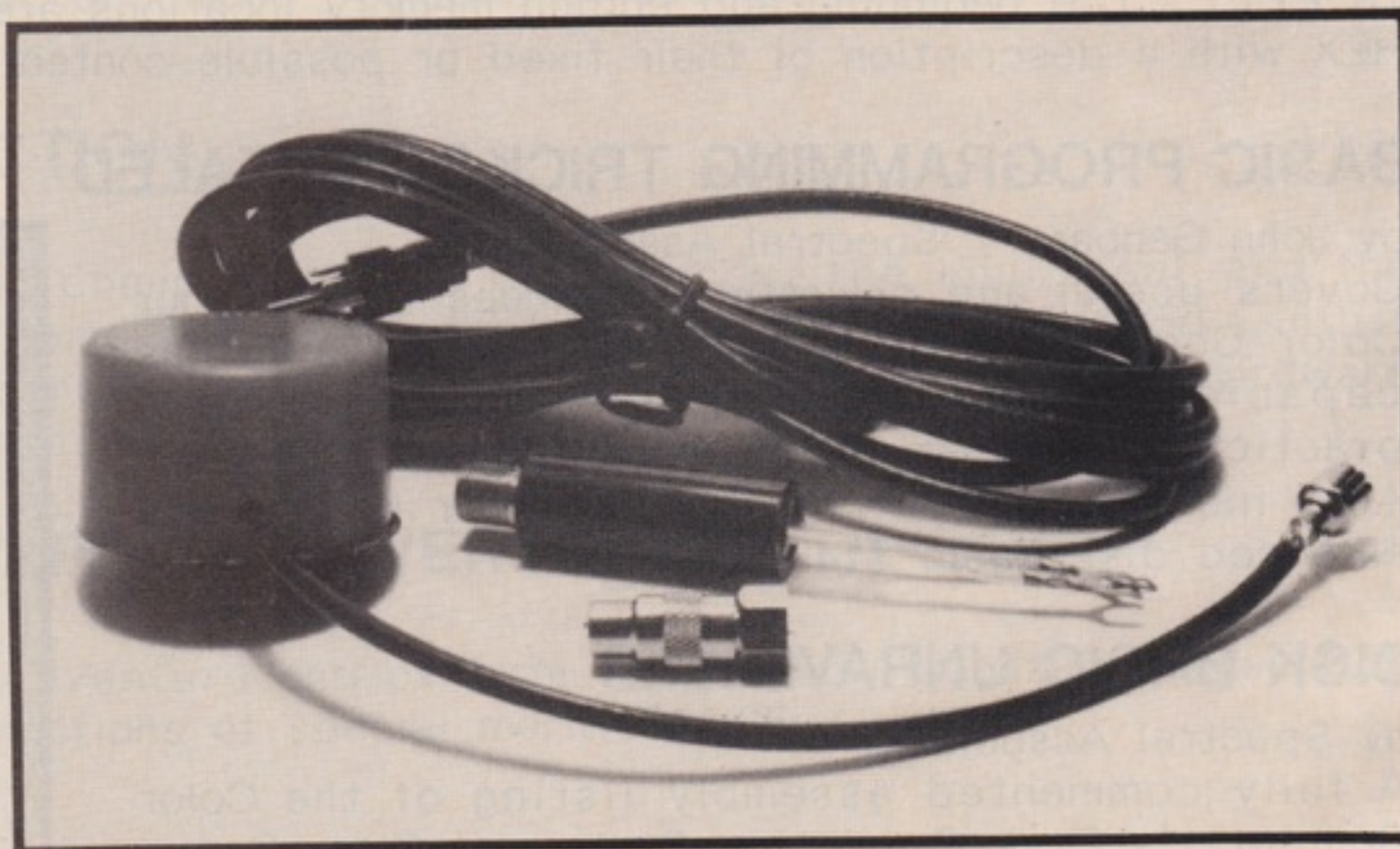
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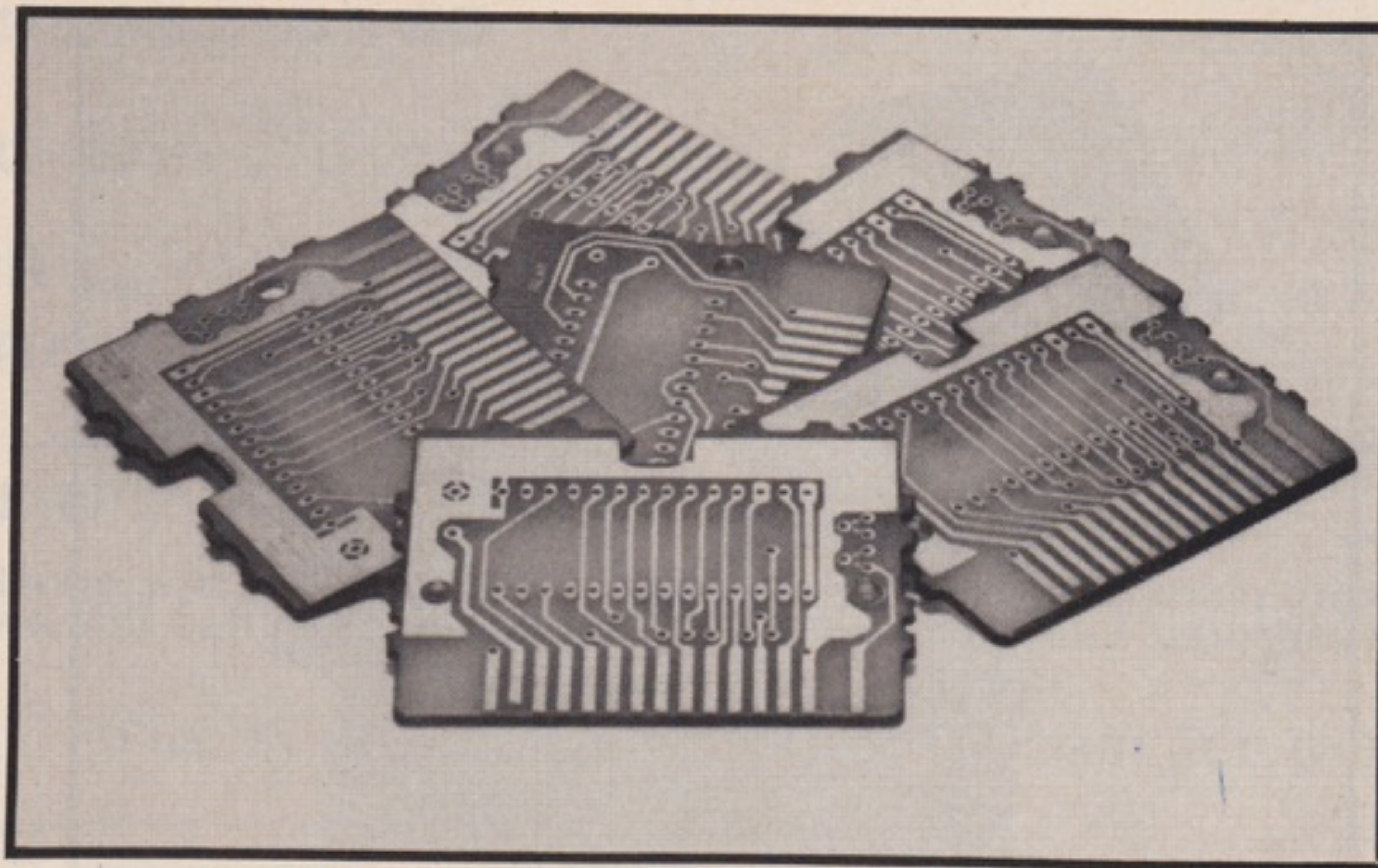
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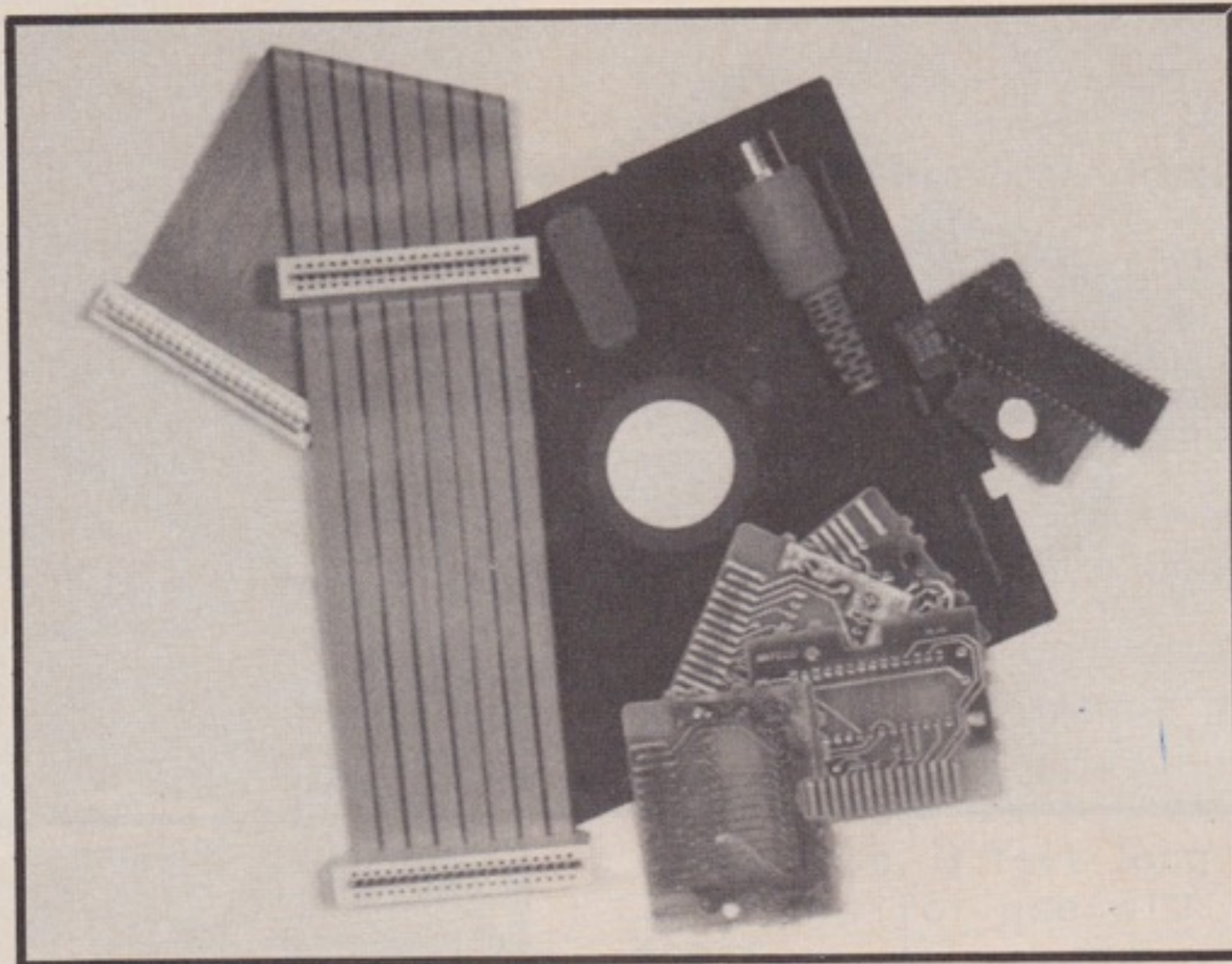
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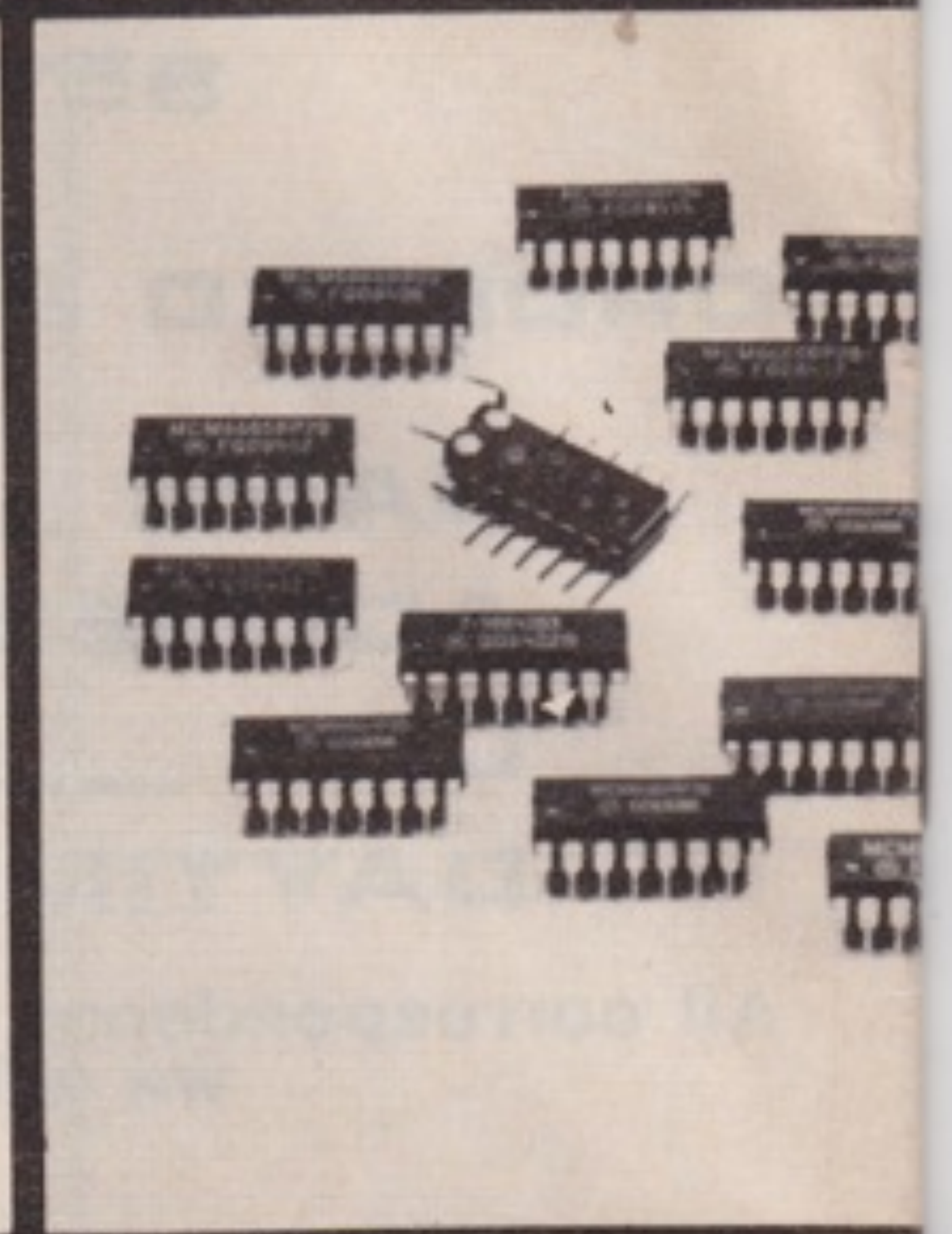| PRODUCT DESCRIPTION	QTY	PRICE	TOTAL

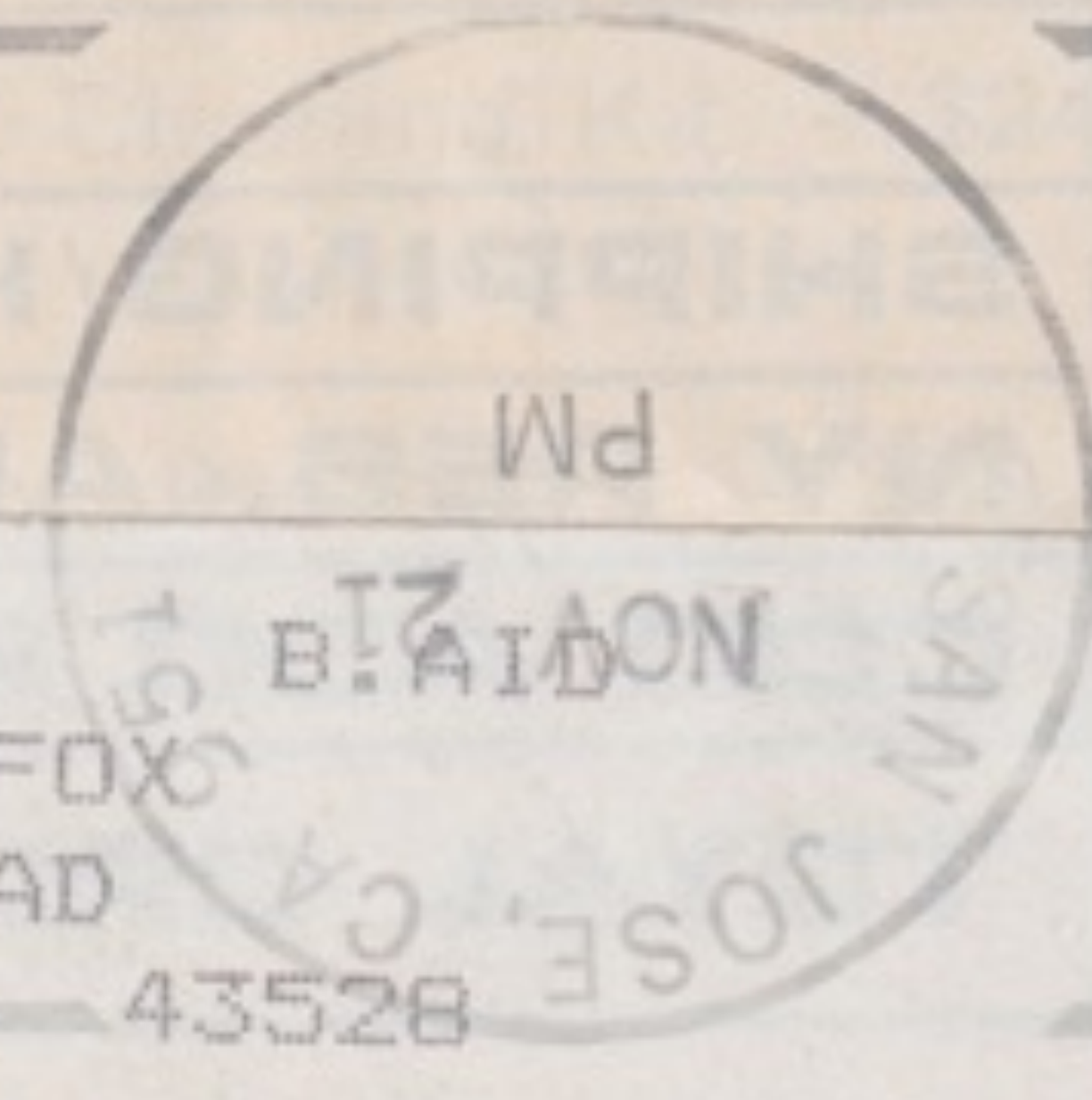|	
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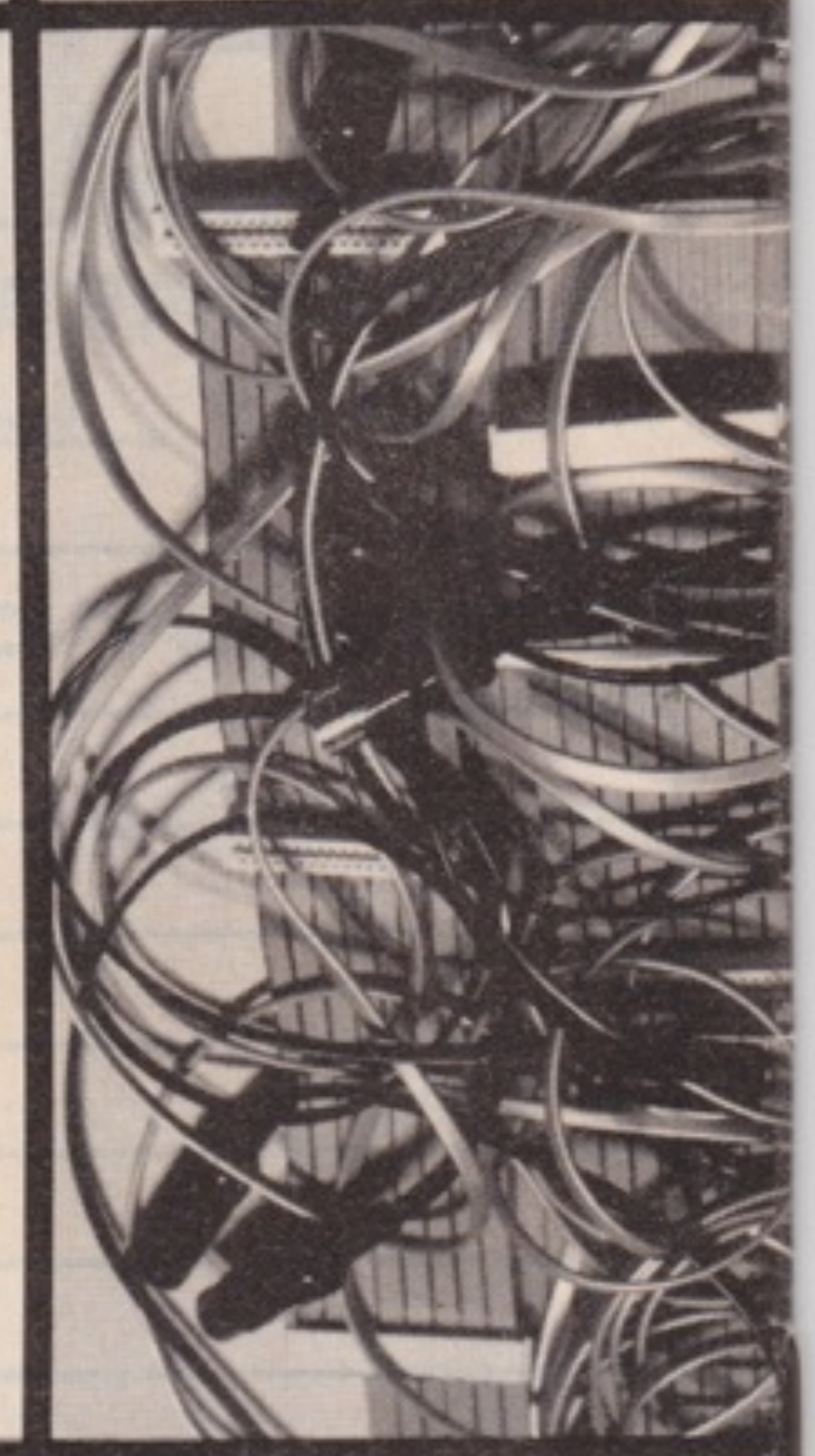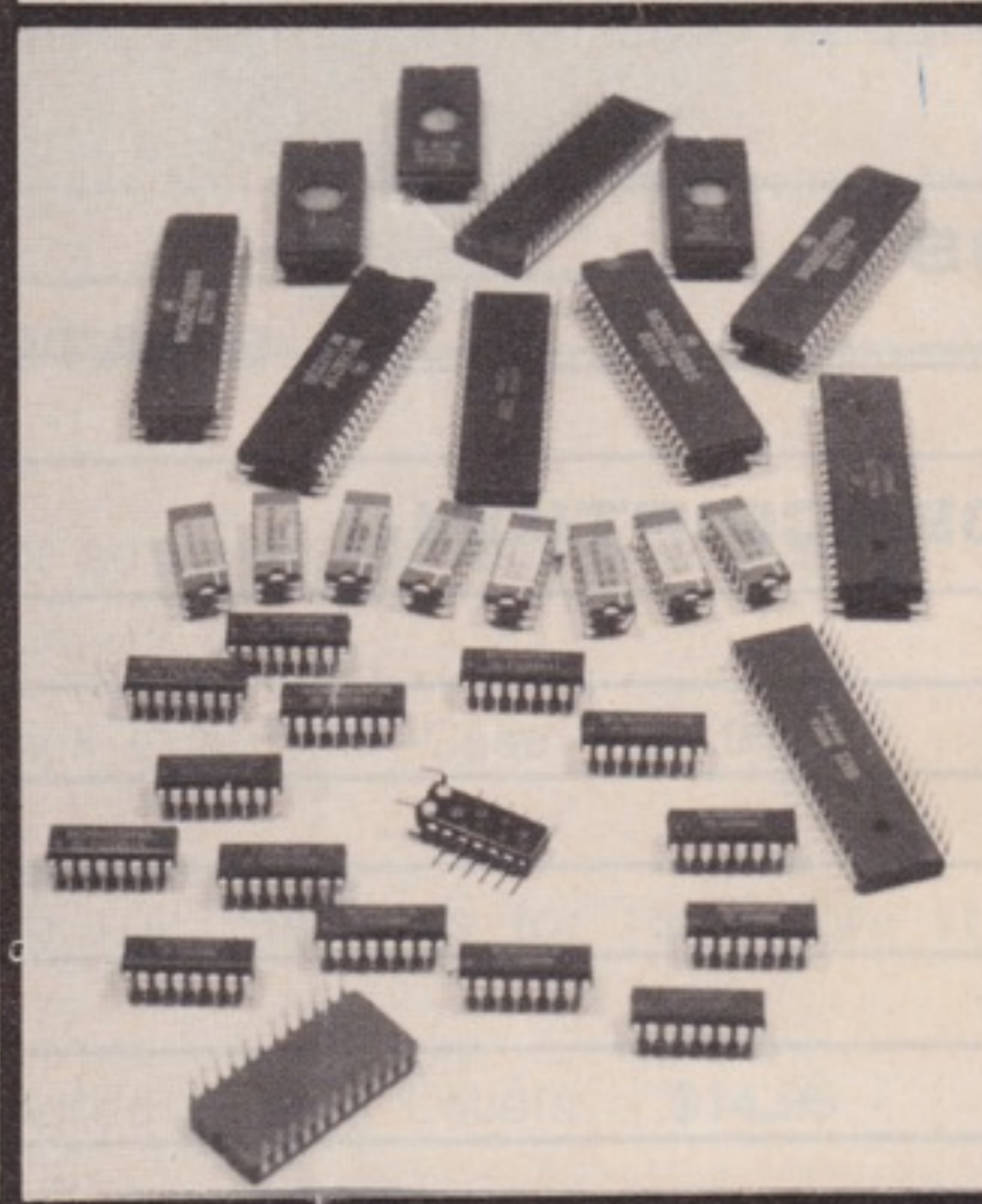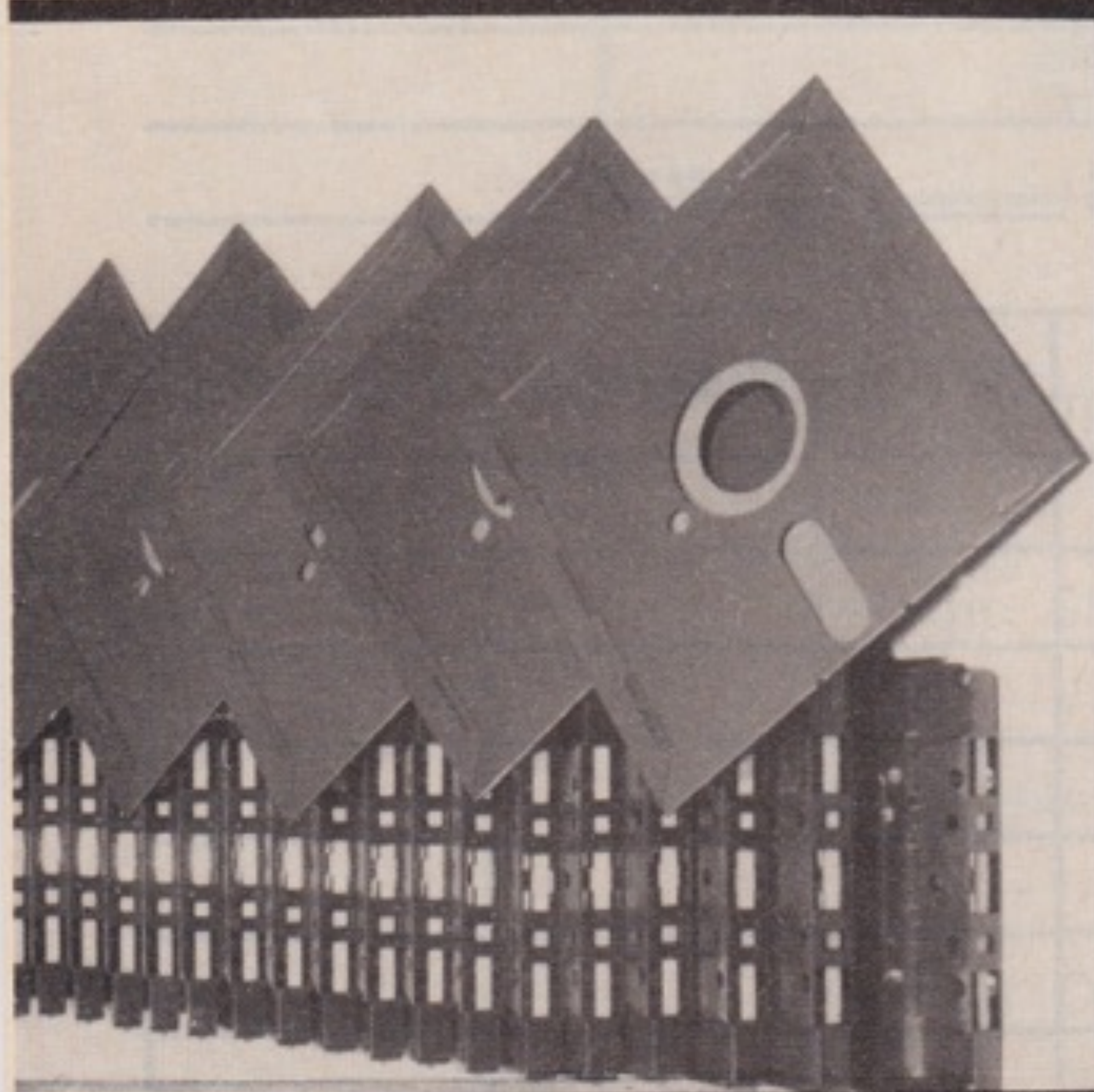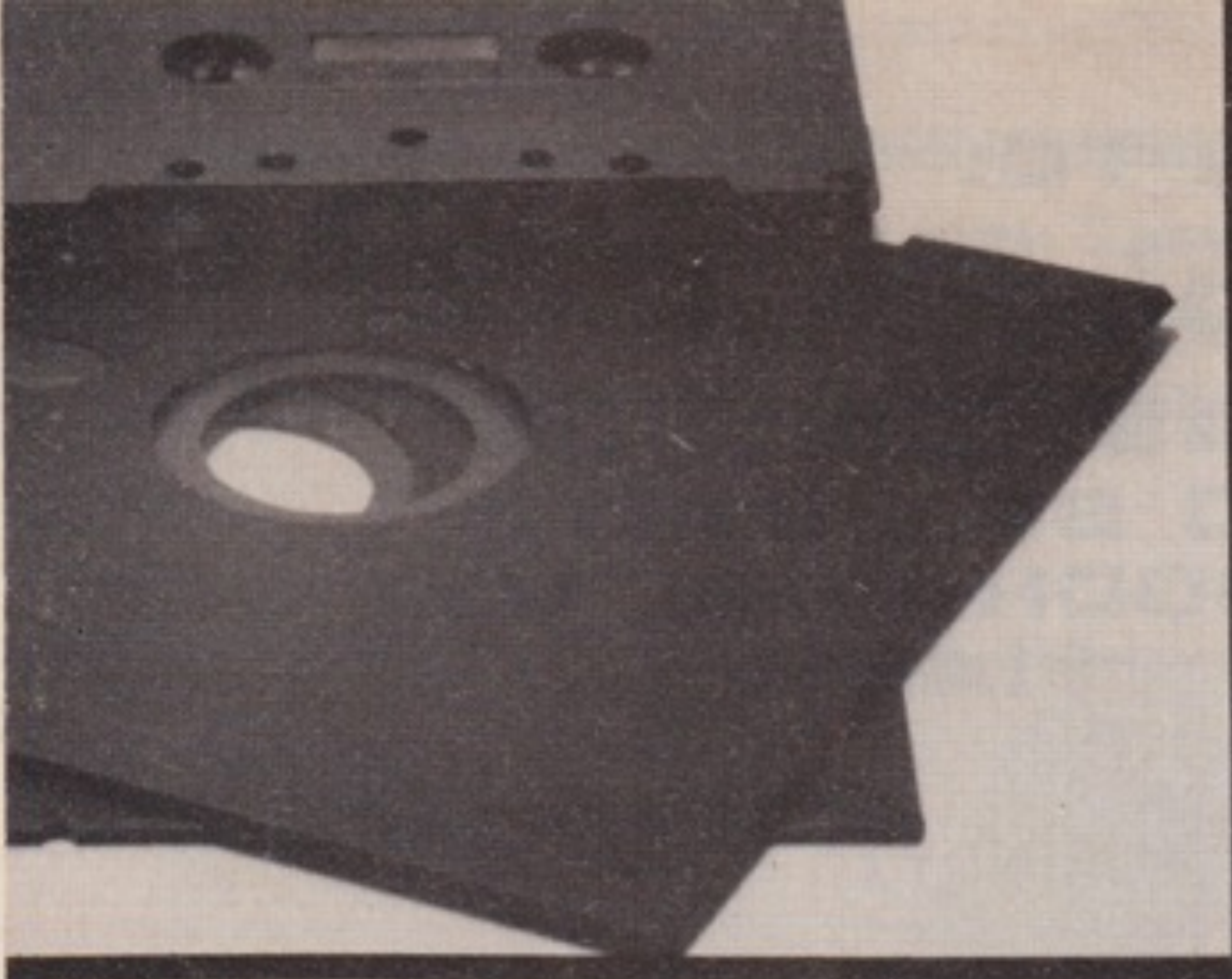
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