



HELLO . . .

You have received this package of information from Apparat, Inc., because you are a registered owner of NEWDOS/80. If you know of any registered NEWDOS/80 owners who did not receive a package, please have them call me at the number below to confirm their registration.

The enclosed information is part of our effort to provide support to the thousands of customers who have legitimately purchased and registered copies of the NEWDOS operating systems. As part of this support, a special phone line at Apparat is being dedicated to NEWDOS/80 problems. I intend to attempt to take the calls on this line personally.

Inquiries by mail are also welcome. I will try to respond to all letters as quickly as possible. Telephone calls are welcome during any of our business hours (9:00 a.m. to 6:00 p.m., M.S.T., Monday through Friday). However, I am most readily available Tuesdays, Wednesdays, and Thursdays from 12:00 noon until 4:00 p.m., M.S.T. The telephone number and address are given below.

In this package you will find information on new products from Apparat, including the latest release of NEWDOS/80, called Version 2.0. An exchange offer is explained for the current NEWDOS/80 Version 1.0 owners. Enclosed also is a form to use to place an order for exchanging Version 1.0 for Version 2.0. No orders for exchanges will be accepted without this form!

The latest ZAP sheets are also enclosed. Please examine these carefully, and note ZAP #48. I apologize for not getting these out sooner. Due to the great expense and work necessary to mass mail these, we are unable to provide them more often than about every 6 months. I am considering other methods for distribution of support information on Version 2.0. One possibility is to sell subscriptions to a monthly Apparat newsletter for NEWDOS/80 owners who need information more often. It would include Zaps, letters from users, tips on operation, new products, and other information. Please send me your ideas on how we can provide better support for our users at reasonable cost. As always Zaps are available by request, call on the phone or send a letter. If you have a particular problem, let me know and I will do my best to correct it.

In the Version 2.0 of NEWDOS/80 for Model III, we will be maintaining compatibility with TRSDOS Model I formats and directories, not TRSDOS Model III. The COPY command will allow the user to copy files from TRSDOS Model III to NEWDOS/80 disks or vice versa, but not to have TRSDOS Model III format disks on-line when the system is running. You will, however, be able to have Model I disks in the Model III on-line, while running and read or write to them. NEWDOS/80 Model III disks will run under NEWDOS/80 Model I also. Single density disks will require the running of DIRCHECK on them first, double density disks will not. How do you feel about this?

If you have any problems or comments please contact me.

SEND MAIL TO:
APPARAT, INC.
NEWDOS/80 SUPPORT
4401 S. Tamarac Pkwy.
Denver, Co. 80237

(303) 741-4307

Thank you,

Dan J. Madigan
Director NEWDOS/80 Support Group



4401 So. Tamarac Parkway
Denver, Colorado 80237
(303) 741-1778

Date:
For Additional Information
Contact:

NEWS RELEASE

A N N O U N C I N G

**** NEWDOS/80 VERSION 2.5 ****

HARD DISK OPERATING SYSTEM

APPARAT IS PROUD TO ANNOUNCE THE RELEASE OF NEWDOS/80 VERSION 2.5 HARD DISK OPERATING SYSTEM. PRAISED BY MANY AS THE PREMIER DISK OPERATING SYSTEM FOR THE TRS-80 MODEL I/III, THE HARD DISK SUPPORT IS A WELCOME ADDITION. ALL OF THE FANTASTIC FEATURES OF NEWDOS/80 VERSION 2.0 HAVE BEEN MAINTAINED WHILE ADDING THESE HARD DISK FEATURES TO THE LIST:

- * Support for Apparat 5, 10 and 15 Mb Hard Drives as well as Radio Shack's 5 Mb Hard Drive.
- * Available for Model I or Model III
- * Includes hard disk formatting program (HDFMTAPP)
- * Includes hard disk backup and restore utility (HDBACKUP)
- * Supports file sizes of over 16,000,000 (million) bytes
- * Expanded directory can now have 246 user files
- * Expanded PDRIVE supports up to 8 hard drive volumes
- * Ability to divide hard drive into one or more data volumes
- * Use the hard drive as a system or data volume
- * Data volumes may contain up to 65535 sectors
- * Volumes defined under Model I can be accessed under Model III and vice versa
- * Upgrade price is only \$60.00

***** NOTE:** Version 2.5 MUST have 48K of RAM as it occupies the top 2K (2048 bytes) of RAM. User programs which respect DOS HIMEM value should have little or no difficulty, other programs need only to be modified by the user. The only difference between Version 2.0 and Version 2.5 is the Hard Disk Interface and applicable programs...no other upgrades to the operating system have been made. Version 2.5 will only be sold to registered owners of Version 2.0. Version 2.5 documentation is considered to be Appendix C in the regular Version 2.0 manual. Remember, this is an upgrade, not a replacement.



4401 So. Tamarac Parkway
Denver, Colorado 80237
(303) 741-1778

Date:
For Additional Information
Contact:

NEWS RELEASE

ANNOUNCING

APPARAT HARD DISK FOR TRS-80 MODEL I AND III

APPARAT HAS LONG HAD THE REPUTATION FOR DEVELOPING HIGH PERFORMANCE PRODUCTS FOR YOUR MICRO-COMPUTER, AND WE'VE DONE IT AGAIN WITH THE APPARAT HARD DISK DRIVE. WITH THE APPARAT HARD DISK DRIVE YOU HAVE MORE STORAGE SPACE, UP TO 15 Mb.

LOOK AT THESE EXCITING FEATURES:

- * 5 1/4" Winchester technology
- * Available in 5, 10 and 15 Mb formatted capacities
- * Track density of 345 TPI
- * Data transfer rates up to 5 Mbits/sec
- * Average access time of 85 msec
- * Ability to add a second drive
- * Plugs directly into Model III
- * Interfaces with Radio Shack Model I hard drive adapter
- * Fully supported by NEWDOS/80 Version 2.5 & RS LDOS 5.1.3
- * Price includes NEWDOS/80 Version 2.5 upgrade
- * Regular pricing: 5 Mb (\$1975), 10 Mb (\$2550), 15 Mb (\$3075)
- * Pricing for registered NEWDOS/80 Version 2.0 owners **ONLY!**

5 Mb \$1489

10 Mb \$1735

15 Mb \$1945

26 Mb \$2499



4401 So. Tamarac Parkway
Denver, Colorado 80237
(303) 741-1778

Date:
For Additional Information
Contact:

NEWS RELEASE

*** COMREF ***

\$14.95

COMREF is an extremely extensive on-line "HELP" file for the NEWDOS/80 Version 2.0/2.5 operating system. Designed after the famous NEWDOS/80 Reference Card, the program contains detailed explanations, and many examples, of all NEWDOS/80 Version 2.0 & 2.5 DOS commands.

*** SUPER-SCRIPTS DRIVERS ***

\$17.95

Epson FX-80 * Allows underscore, emphasized, double strike, italics, subscript, superscript & even proportional characters.

Epson MX-80/MX-100 (with Graftrax Plus) * Allows underscore, emphasized, double strike, italics, subscript, superscript & even different character pitch.

Okidata u84 * Allows underscore, emphasized (horiz & vert), correspondence quality, subscript, superscript & even variable characters per inch.

*** FLEXTXT PLUS ***

\$34.95

Even more support for your Epson MX-80 (Graftrax) or MX-80/MX-100! This is the fantastic Scripsit modification program reviewers have raved about. Now you have the capabilities of word processing systems costing twice the price of your standard Scripsit. With underlining, boldfacing, double striking, subscripts, superscripts, various character fonts and more at your fingertips there is no need to spend any more for your word processor.

*** CHEXTXT ***

\$59.95

This is the spelling checker which won such high praise in Desktop Computing, and was voted by '80 Micro Readers to be one of the best spelling checkers on the market. By maintaining the integrity of each word, CHEXTXT bypasses the "hashing" errors so many others have. The dictionary provided is either 10,000 (single density) or 20,000 (double density) words and can be fully expanded up to the full size of your diskette.



4401 So. Tamarac Parkway
Denver, Colorado 80237
(303) 741-1778

Date:
For Additional Information:
Contact:

NEWS RELEASE

*** NEWTERM/80 ***

\$49.95
Model III only

NEWTERM/80 is by far one of the most powerful communications programs available today. Configurations for different host computers can be saved and recalled from disk with only a few keystrokes. Other features include keyboard/display translation tables, interrupt driven up to 19,200 baud, logon/polling messages, status line, upload/download and much more.

*** SPRINT/80 ***

\$14.95

SPRINT/80 will create a serial printer driver using your specifications for baud rate, data bits, stop bits and will even append a line feed to a carriage return for you. Most drivers created will only occupy about 16 bytes of high memory.

*** MICRO CLINIC ***

\$24.95 (Model I) / \$29.95 (Model III)

MICRO CLINIC by Dave Stambaugh is by far the most extensive disk and memory diagnostics program available today. Tests for memory include the grueling M1 Worm Test which puts your memory to the ultimate test. Disk diagnostics include basic controller tests, seek test, write/read, technical test and even more in the Model III version!

SAVE / on Software for TRS-80

— APPARAT'S FLEXTXT/80 — PUT'S PEP IN THE "EPSON"

FLEXTXT/80 provides a SCRIPSIT™ path to EPSON power. Users will:

- * Print superscripts and subscripts anywhere in text.
- * Underline any text (including super and sub scripts).
- * Mix 10/10th and 16.5/10th characters (unjustified).
(Full lines of either width characters will be justified.)
- * Mix normal and **elongated** characters in any format.
(Mixed normal and elongated characters will be justified.)
- * Mix normal and *italic* characters (even *elongated*).
- * Mix normal and **emphasized** characters (**elongated** too).
(This ***one*** is in emphasized, elongated, underlined italics.)
- * Dynamically activate/deactivate **double strike** printing.
- * Dynamically change line spacing (6/10th, 8/10th, 7/72 10th).
- * Set and exercise horizontal tab stops, such as:

Tab 1 Tab 2 Tab 3 Tab 4 Tab n

- * Print block graphics (graphically stated)

Print **BLOCK** graphics.

- * Combine the above demonstrated features in just about any manner they want.

FLEXTXT/80 and SCRIPSIT™ were exercised in composing this page.

FLEXTXT/80 is available now from APPARAT. The purchase price is:

\$34.95

™A registered trademark of The Tandy Corporation.

FLEXTXT/80 (for MX-80 Printers) Requires Graftrax



Apparat, Inc.

"On-going Support for Microcomputers"

4401 S. Tamarac Pkwy. • Denver, CO 80237 • (303) 741-1778 • (800) 525-7674

Scrpsit & TRS 80 are a registered trademark of Tandy Corporation

Freight F O B Denver-call for shipping charges. Foreign Orders shipped Air Freight



SAVE / on Software and Hardware for TRS-80

CHEXTEXT®

Let your TRS-80® do the proofreading on your SCRIPSIT® text files!!

Features of this program include:

- Complete dictionary maintenance including the addition and deletion of words.
- Menu driven for ease of operation.
- Spelling Checker
- FREE expanded dictionaries available, depending on your drive storage capabilities.

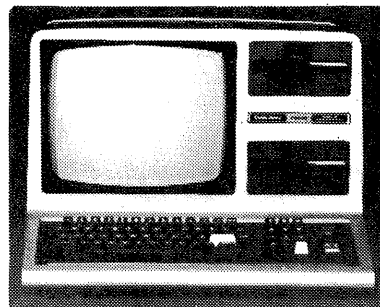
NEW LOWER PRICE \$59.95

MODEL III PRICE LIST

(All 48K with TANDON drives)

1 single sided 40 track drive	\$1695.00
2 single sided 40 track drives	1895.00
1 dual sided 40 track drive	1820.00
2 dual sided 40 track drives	2145.00
1 single sided 80 track drive	1845.00
2 single sided 80 track drives	2175.00
1 dual sided 80 track drive	1995.00
2 dual sided 80 track drives	2395.00
with RS-232 C Add	115.00

NOTE: These Model III computers contain Apparat installed disk drives and memory. They are warranted by Apparat, Inc for 90 days



MISCELLANEOUS SUPPLIES

DISKETTES

Double density-soft sectored-replacement guaranteed. Spindle/Hub protected. (5¼" only)

Verbatim Datalife 5¼" 40 track	\$24.95
Apparat's No Name 5¼" 40 track	\$19.95
Verbatim Datalife 8" model II	\$39.95

PAPER

9½"x11" blank white, tractor feed paper, full box 15# or 20#	\$24.95
14½"x11" green bar, tractor feed paper, full box	\$34.95
3½"x15/16" tractor feed mailing labels	\$19.95

OTHER

5¼" plastic library case	\$ 1.95
8" plastic library case	\$ 4.95
5¼" Flip-sort	\$18.95
8" Flip-sort	\$31.95
16K memory kits	\$19.95

APPARAT'S PROM BLASTER

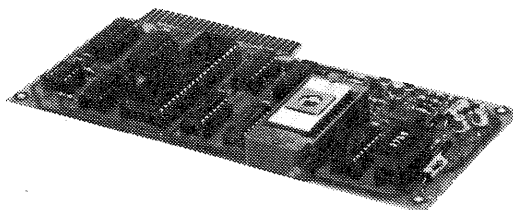
An eprom programmer for all 25 X X and 27 X X chips. TRS-80

MOD I & III \$149.00

CABLE \$ 17.95

BUS EXTENDER

mini version with 2 card slots and no enclosure \$ 69.95



SPECIAL - FREE GRAFTRAX

with EPSON MX-80 & MX-80 F/T Printers

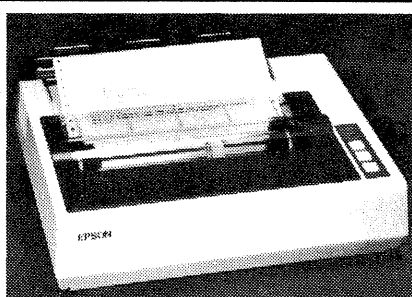
MX-80 \$499.00

MX-80F/T \$599.00

MX-100 \$775.00

Printer Cables \$24.00
(Specify ComputerType)

WE ALSO STOCK OKIDATA & NEC PRINTERS
CALL FOR PRICES



ASSORTED ITEMS OF INTEREST

MICRO CLINIC, Mod I \$24.95, Mod III \$29.95

The ultimate in memory & disk diagnostics

MEAL MASTER, Mod I & III Disk \$24.95

meal planning & grocery shopping aid

FLEXTEXT/80 (requires Graftrax) \$34.95

utilize the additional features of the MX-80 printers under model I & III scripsit

MICRO ACCOUNTING SYSTEM, \$479.00

Interactive G/L, A/R, A/P & checkbook manager

UNI-TERM/80, \$89.00

Universal terminal program that takes advantage of the extended NEWDOS/80 commands

BASIC BETTER & FASTER BOOK, \$23.95

NEW LOWER PRICES ON TANDON DISK DRIVES

Complete with power supply, chassis & configured for TRS-80® Model I or III

- Single sided 40 track \$285.00
- Dual 40 or Single 80 track \$415.00
- Dual sided 80 track \$515.00
- Special - 2 Dual sided 80's \$999.00

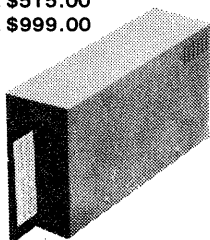
MODEL I DOUBLE DENSITY PACKAGE

Converts a standard TRS-80 Model I to Double Density.

Apparat Doubler & NEWDOS/80 V 2.0.

\$278.00 value for only \$219.00

Doubler alone \$129.00



NEWDOS 80 Version 2.0

The most sophisticated DOS ever produced for the TRS-80® Models I and III. It provides the user with "MAINFRAME" power on a "MICRO".

Some Features available are:

- Jobstream Control Language
- Mod I/Mod III Diskette interchangeability
- Double Density Support on Model I
- Pagination of BASIC listings on the screen
- Basic program single stepping
- Dynamic variable manipulation
- Multiple array sorts with BASIC CMD
- Complete technical support provided

All this plus much more for only

\$149.00

InfoWorld
Software Report Card

NEWDOS/80
Version 2.0

	Poor	Fair	Good	Excellent
Performance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Documentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ease of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Error Handling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



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Scrpsit & TRS 80 are a registered trademark of Tandy Corporation.

Freight F O B Denver-call for shipping charges. Foreign Orders shipped Air Freight



APPARAT SPECIAL ORDER FORM

Date: _____

NEWDOS/80 Ver 1.0

Reg. # _____

Place my order for the following.

MAIL To: APPARAT, Inc.

I understand a delivery date is **NOT** guaranteed.

Dept. SO
4401 S. Tamarac Pky.
Denver Colo. 80237

QTY	PRODUCT	PRICE	SUB-TOTAL
1	NEWDOS/80 VER 2.0 EXCHANGE - MODEL I only *	\$60.00	\$60.00
	MODEL I NEWDOS/80 VER 2.0 - PER COPY	\$125.00	
	MODEL III NEWDOS/80 VER 2.0 - PER COPY	\$125.00	
	MEAL MASTER PROGRAM	\$24.95	
	Other-		
		TOTAL	

☐ CHECK # _____ ☐ Money Order # _____ ☐ C.O.D. Add \$ 2.50

☐ M.C. ☐ VISA Card # _____ Exp. Date ____/____/____

Signature [Signature]

* NEWDOS/80 VER 1.0 DISK MUST ACCOMPANY ALL EXCHANGE ORDERS

THE EXCHANGE OFFER EXPIRES AUG. 31, 1981

for internal use only

Received By _____ Reg. # _____ Shipped By _____ Date _____ Method _____

NEWDOS/80 VERSION 2.0 FOR MODEL I EXCHANGE OFFER

For a limited time only, APPARAT, INC., is offering its NEWDOS/80 Version 2.0 at an introductory price to current owners of NEWDOS/80 Version 1.0.

Who Is Eligible: This offer is available only to registered owners of NEWDOS/80 Version 1.0, with a limit of one copy per owner. This is an exchange for the NEWDOS/80 Version 1.0 on the Model I system only.

Cost of Exchange: The cost of the initial NEWDOS/80 Version 2.0 exchange is \$60.00 and requires that you return your serialized master NEWDOS/80 Version 1.0 diskette which you originally received from Apparat. Your registration for Version 1.0 will be cancelled and a Version 2.0 registration entered automatically for you.

Expiration Date for Exchange Offer: This offer expires August 31, 1981. After that date, the cost of purchasing NEWDOS/80 Version 2.0 will be \$125.00, the price for a second copy as specified below

How to Order: Fill out the enclosed Special Order Form--no exchange orders will be accepted without this form. Mail both of the Special Order Form copies, along with the original NEWDOS/80 Version 1.0 diskette, to Apparat, Inc. Be certain to include proper payment to Apparat, Inc. (See order form for further payment details and address information.)

Projected Release Date: Although NEWDOS/80 Version 2.0 is not expected to be released until early Summer 1981, orders will be accepted at any time and will be shipped at the earliest possible date. A specific shipping date cannot be guaranteed at this time.

SPECIAL PRICE ON YOUR SECOND COPY

Owners of any NEWDOS system (NEWDOS+++ or NEWDOS/80) can purchase, regardless of version, a copy of NEWDOS/80 Version 2.0 for Model I or III at \$125.00. This discount allows the purchaser to keep his first system and buy a second for either machine without sending in an exchange. It is also available to owners of NEWDOS 2.1 or NEWDOS+++, where the exchange offer is not. To receive a second copy at the discounted price you must supply your serial number and version of NEWDOS. A cancellation date will be set sometime in the future, after the expiration of the exchange offer.

NEWDOS/80 ZAP UPDATE SERVICE

Apparat is continuing its service of installing mandatory zaps for NEWDOS Operating Systems. Due to the increased use and cost of providing this service, effective May 31, 1981, the price will increase to \$10.00. Please refer to ZAP 048 in the enclosed Zap Sheets for details. When returning disks, send the original master copy to:

APPARAT, INC.
NEWDOS/80 Diskette Update Service
4401 South Tamarac Parkway
Denver, Colorado 80237

EXTENDED FEATURES OF NEWDOS/80 VERSION 2.0

- o DOUBLE DENSITY ON MODEL I
Use the LNW DOUBLER or PERCOM DOUBLER to expand storage 80% under NEWDOS/80 Version 2.0, mixing single and double density specifications without any patches.
- o SINGLE DENSITY ON MODEL III
Will allow the MODEL III to read disks from MODEL I and to write disks the MODEL I can read, making it easy to move programs between the two under NEWDOS/80 on both machines.
- o COPY BY FILE EXPANDED
CBF will now work with system files and can run on single drive systems. Files to be copied can be limited to files of common extension or only non-invisible files. Files for copying can be listed in a data file. This is helpful in moving programs from NEWDOS/80 Version 1.0 system disks to NEWDOS/80 Version 2.0.
- o EXPANDED DIRECTORIES
Directories can be expanded three times the normal number of available entries, even on DOS disks. This is extremely useful when using double density.
- o DYNAMICALLY MERGE IN BASIC
To allow sections of BASIC programs to be deleted and replaced during program execution with files from the disk. Also allows merging of non-ASCII format files.
- o SELECTIVE VARIABLE CLEARING
Will allow the programmer to keep some variables and release the space used by the rest; also, specific variables may be erased releasing the space they use.
- o CHAINING ENHANCEMENTS
Features to allow chain files to be written from SCRIPSIT; also, chaining may be switched on and off without changing chain file positioning, and may be executed via CMD "XXX" and DOS-CALL.
- o PAGE SCROLLING IN BASIC
Scrolling has been modified to allow the user to display programs page by page, in addition to the regular line scrolling.
- o CREATE PRE-ALLOCATED FILES
File space may be allocated on the disk in advance, to prevent the possibility of disk full errors.
- o REPEAT FUNCTIONS
Keys in MODEL I repeat when held down. Entering "R" as a DOS command causes the previous DOS command to be repeated.
- o ROUTING FOR DEVICE HANDLING
To send input and output from one device (display, printer, keyboard, etc.) to others or to a routine in main memory.
- o FORMS COMMAND
To set printer formatting on the MODEL III.
- o SET COM RS-232
Commands to set the specifications on the serial output port on the Model III.
- o DISASSEMBLER OUTPUT TO DISK
The Disassembler will now write a source code file to disk, which the editor assembler can read and edit.
- o DATE AND TIME VALUES
Saved through non-powerup reset and can be used as defaults for DOS commands, COPY and FORMAT.
- o SUPERZAP
Has the ability to scan diskettes or disk files to find the occurrences of specific values. Also will generate passwords and hashcodes.

NEWDOS/80



WELCOME to NEWDOS/80

V.I

Apparat Incorporated takes pleasure in presenting NEWDOS/80, the disk operating system for the 80's. Below is the registration number of your NEWDOS/80. This registration number must be the same as the registration number you find on your diskette label and the enclosed registration card. If they are not, return them to the dealer from whom you purchased your NEWDOS/80 to be reissued. This registration number is your assurance of receiving any corrections or minor revisions to NEWDOS/80 that may be released. The registration card should be completed and returned to Apparat at your earliest convenience.

Your Registration Number

10633

Any communication with Apparat or your dealer, in regard to NEWDOS/80, must include this registration number.

NOTICE

NEWDOS/80 is distributed on an "AS IS" basis only and without warranty. Neither Apparat Inc., nor any authorized dealer of NEWDOS/80, shall have liability or responsibility to any person or entity with respect to any liability, loss or damage caused or alleged to be caused by the computer programs constituting NEWDOS/80, including but not limited to any interruption of service, loss of business or anticipatory profits or consequential damages resulting from the use or operation of such computer programs.

Good programming practices dictate that frequent backup copies be made to protect active files. Also, valued data should not be used under an unknown system until it has been thoroughly tested.

All rights reserved. Reproduction or use, without express written permission, in any manner, is prohibited. No liability is assumed with respect to the use of nor for any damages that may result from the use of any information contained herein.

All NEWDOS/80 software is copyrighted by Apparat Inc., which authorizes each NEWDOS/80 owner the right of duplicating the contents of the NEWDOS/80 diskette, provided such duplication is for the sole personal use of said owner. Any other duplication of NEWDOS/80, in whole or in part, is strictly prohibited.