

Megadisk Documentation

Revision date January 25, 1986

WESTERN DIGITAL or OMTI 20 L Controller

NEWDOS/80 Version 2.5

The following documentation is a supplement to your original DISK OPERATION MANUAL. Once operational, the MEGADISK will operate using almost all of the same commands applicable to your floppy drives as described in your DOS manual.

The MEGADISK has been thoroughly tested and operated using the Disk Operating System you selected. To obtain the best results, please read and then carefully re-read the documentation contained herein.

There is no warranty either implied or expressed that any particular brand or type of software will operate on the MEGADISK. Programs must honor the high memory pointer to insure trouble free operation.

Should you experience any problems, please do not hesitate to contact our technical staff. They will be happy to assist in any way possible.

MEGADISK AND INSTAPATCH ARE TRADEMARKS OF SOFTWARE SUPPORT, INC., AND MAY NOT BE USED WITHOUT SPECIFIC WRITTEN PERMISSION.

Disk Drive Data Specifications

Serial number 1370

Model of computer MODEL I / III / IV

DOS system NEWDOS/80 2.5

Size of drive 5 10 15 20 30 megabytes

Number of Cylinders 153 306 612

Number of Heads 2 4 6 8 10

RWC/WPC 0 128

Step option 0 5 96

Controller Western Digital 1002 TAN - OMTI 20L

Brand of Drive Tandon Seagate Miniscribe Disctron Syquest Tulin

Please call the techline number for all service problems during the hours noted.

TECHLINE 1-617-872-9090-MONDAY To FRIDAY 9:00 to 12:00 & 1:00 to 5:00 EST.

Delivery date _____

TECHNICIAN _____

TKO
Sectors
7680
712



INSTALLATION ONTO YOUR EXISTING COMPUTER

Please be sure to plug the cable onto the buss of the computer matching pin #1 of the edge card with the edge of the cable that is marked by the colored line.

- a. Model I - uses the 40 pin buss on left front side of the expansion box.
- b. Model III/IV - uses the 50 pin buss located under the computer in the rear center.
- c. Model 4P - uses the 50 pin buss located on the back panel. Please be sure to remove the protective cover.

Should your computer 'lock up' during this initial hookup, please remove the cable from the buss, turn around 180 degrees, and reinstall.

IMPORTANT NOTE : Do NOT change any of the parameters of the /JCL files. To make any changes can and will cause a system failure.

REQUIRED HARDWARE:

MODEL I/III/IV COMPUTER

MODEL I/III - 48K MEMORY

MODEL IV/4P - 64K MEMORY

DUAL FLOPPY DISK DRIVES

DISK OPERATIONAL SYSTEM - NEWDOS/80 2.5 - MODEL I/III/Model IV enhancements.

WARRANTY

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BOOT FILE

IMPORTANT NOTE : Do NOT change any of the parameters of the /JCL files. To make any changes can and will cause a system failure.

It is NOT necessary to format this drive. Your MEGADISK has been formatted and the operational systems placed in their proper places.

To fully utilize your new system, please CAREFULLY follow these directions.

The following operation will provide you with a FOUR volume/partitioned drive. If you wish any other configuration, please refer to the balance of this manual for custom configurations.

1. Install the MEGADISK drive and turn it on.

a. Place a backup copy of your SYSTEM diskette in drive #0.

b. Place the INSTAPATCH diskette in drive #1

c. Set the PDRIVE specifications as follows:

MODEL I - PDRIVE 0 1 TI=A TD=A TC=35 SPT=10 TSR=3 GPL=2 DDSL=17 DDGA=2 A

MODEL III- PDRIVE 0 1 TI=A TD=E TC=40 SPT=18 TSR=0 GPL=2 DDSL=17 DDGA=2 A

d. TYPE : DO CONFIG

e. Press enter

When the task has been completed, your MEGADISK will be fully operational.

Please read the balance of this manual

INITIAL STARTUP-NEWDOS/80

IMPORTANT NOTE : Do NOT change any of the parameters of the /JCL files. To make any changes can and will cause a system failure.

1. BACKUP THE NEWDOS/80 MASTER DISKETTE

- a. Place a NEWDOS/80 master diskette in drive #0, and a clean diskette in drive #1.

Please type the following:

```
COPY :0 :1,,NDMW
```

- b. Purge ALL visible files on drive #1, using the PURGE function.

When the copy is finished, remove both diskettes place the backup copy in drive #0 and press the reset button.

2. MAKE A BACKUP COPY OF THE INSTAPATCH

- a. Please type the following:

```
MODEL I - PDRIVE 0 1 TI=A TD=A TC=35 SPT=10 TSR=3 GPL=2 DDSL=17 DDGA=2 A
```

```
MODEL III- PDRIVE 0 1 TI=A TD=E TC=40 SPT=18 TSR=0 GPL=2 DDSL=17 DDGA=2 A
```

- b. Place a clean diskette in drive #1.

- c. Type : COPY :0 :1,,FMT (ENTER)

- d. You will be queried as follows:

Are the system and source the same ? answer is NO

- e. When prompted, place the INSTAPATCH MASTER in drive '0' and press enter.

AUTOMATIC INSTALLATIONS**1. AUTO CONFIGURING**

1. WITH YOUR DATA SHEET IN HAND, PLEASE FOLLOW THE DIRECTIONS BELOW:

a. Type-DO Bxyz (x=153 for 153 cylinders)
(x=306 for 306 cylinders)
(x=612 for 612 cylinders)

(y=5 for 5 megabyte systems) (y=10 for 10 megabyte systems)
(y=15 for 15 megabyte systems) (y=20 for 20 megabyte systems)

(z=2 for 2 volumes) (z=3 for 3 volumes) (z=4 for 4 volumes)
press ENTER

The system will set up your floppy diskette and then re-boot. A new menu will now appear.

Be sure to carefully read the on screen instructions and follow them

b. The first menu will ask if you want to format drive (0 or 1) - select drive '0' if you have only ONE physical hard drive.

c. Number of SURFACES = 2 4 6 8

d. Number of cylinders = 153 306 612 640

Answer 'Y' if the answer you wish to complete the installation and press ENTER.
The system will now HARD format the drive.

e. You will be prompted to press ENTER to SOFT format each volume.

This program will format all drives, copy information onto the hard drive, turn your floppy diskette in drive '0' into a boot-to-hard drive diskette, and once booted, will turn control over to the hard drive.

Once installed, please inspect the PDRIVE tables and familiarize yourself with them. Please review the utilities section.

You may now backup any diskette onto the hard drive, however, DO NOT back up any SYSTEM files onto the hard drive, only the USR or INVISIBLE files.

Please be sure to back up your BOOT disk at least twice.

All NEWDOS/80 2.5 functions are consistent with NEWDOS/80 command structures. Please fully read your NEWDOS/80 2.5 manual for any additional information you may need.

As always, please feel free to call our technical staff for any further information.

YES - IT IS THAT EASY !

UTILITIES - NEWDOS/80 2.5**NEW SYSTEM OPTIONS**

We have added two new options to the system command:

BO = # of heads on physical HARD drive 0

BP = # of heads on physical HARD drive 1

#=2 for 5 megabytes 306 cylinders
4 for 5 megabytes 153 cylinders
4 for 10 megabytes 306 cylinders
4 for 20 megabytes 612/640 cylinders
8 for 20 megabytes 306 cylinders

BQ = # - TRACK step rate of the MEGADISK

These SYSTEM options are installed in the exact manner as described in the NEWDOS/80 manual

TRS/80 HOST ADAPTER

PORT C0 (C-ZERO)
C1 (C-ONE)

A0 (A-ZERO)- WHEN OFF=SELECT DATA REGISTER
WHEN ON =SELECT CONTROL REGISTER

CONTROL REGISTER

BIT#	MODE	USE
0	READ ONLY	DTC REQUEST
1	READ ONLY	DTC COMMAND/DATA
2	READ ONLY	RECEIVED PARITY ERROR
3	READ ONLY	DTC BUSY
4	READ ONLY	DTC I/O
5	READ/WRITE	INTERRUPT ENABLE FOR DTC REQUEST
6	WRITE ONLY	DTC SELECT
7	WRITE ONLY	DTC RESET

BIT #7 WHEN READ IS DTC MESSAGE LINE

This documentation was written on a TOSHIBA p351 printer using the ALLWRITE Word Processor, which we have found to be the most professional system available for the TRS/80.

Allwrite is available from : PROSOFT

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