

## TANDY 15 MEG HARD DISK

How to set up a TANDY 15 MEG HARD DISK to run under NEWDOS 80 VERSION 2.5

- (1) The standard Newdos 80 Version 2.5 runs very well on a TANDY 5 MEG HARD DISK
- (2) The Program HDFMTAPP/CMD DOESN'T appear to work on the ( TANDY ) 15 MEG hard drive, I think the program suits the 8x300 FDC board But not the WD 1010 FDC board that is in the TANDY 15 Meg Hard Drive
- (3) The way I got around this is -

- (a) On a Model 4 I used TRSDOS 6.XX HARD DISK Setup Program HARDGEN/BAS to format the 15 Meg Hard Drive.
- (b) A little bit of information about the 15 MEG HARD DRIVE It has 306 cylinders, 6 heads, 32 sectors per track.
- (c) how to go about FORMATTING the 15 MEG HARD DRIVE is as follows

- (4)
  - (a) Power up the Hard Drive FIRST, Then turn on Your MODEL 4
  - (b) Boot up a Backup copy of The HARD DISK OPERATING SYSTEM ( INITIALIZATION ) MODEL 4 TRSDOS 6.x - Cat 26-0316
  - (c) Run the basic program " HARDGEN/BAS "and answer the following questions
  - (d) Is your system ready " Y " ( ENTER )
  - (e) How Many Floppys " 2 " ( ENTER )
  - (f) How many HARD DISKS " 1 " ( ENTER )
  - (g) What is your SERIAL # eg " 2222 " ( ENTER )
  - (h) Did you enter all of your serial # " Y " ( ENTER )
  - (i) Enter the amount of data to be stored " 15 " ( ENTER )
  - (j) Press ( ENTER )
  - (k) How many LOGICAL DRIVES do you want on your system " 8 " ( ENTER )
  - (l) How many floppys " 2 " ( ENTER )
  - (m) Do you want MEMDISK " N " ( ENTER )
  - (n) How many LOGICAL DRIVES do you want on your HARDDISK " 6 " ( ENTER )
  - (o) Do you want to change the configuration " N " ( ENTER )
  - (p) Which Method " A " ( ENTER )
  - (q) ( ENTER )
  - (r) Do you want the hard disk to be a system disk " Y " ( ENTER )
  - (s) Do you want the HARD DISK to be SEARCHED first " Y " ( ENTER )
  - (t) Is the configuration correct " Y " ( ENTER )
  - (u) Go and have a meal or some other task that takes about " 48 minutes " THATS how long it will take to FORMAT 15 MEGS OF HARD DRIVE.

\*\*\* There is MORE to come see Page 2 \*\*\*

You now have FORMATTED THE HARD DISK under TRSDOS 6.x  
This can not be used as it is under NEWDOS 80 VERSION 2.5.  
BUT we now have the beast FORMATTED.

The next step is to make a backup of NEWDOS 80 VERSION 2.5.  
And get 1 spare blank disk to make into a BOOT DISK

Get out your copy of the NEWDOS 80 MANUAL and turn to APPENDIX - C.

- (5) Boot up NEWDOS 80 2.5.  
Type in SYSTEM,0,AL=8.  
\*\*\*\*\* Then REBOOT.\*\*\*\*\*

Reconfigure the PDRIVES as per EXAMPLE below.

NEWDOS/80 READY

PDRIVE,0

```
0* TI=A,TD=E,TC=40,SPT=18,TSR=0,GPL=2,DDSL=17,DDGA=2
1* TI=A,TD=E,TC=40,SPT=18,TSR=0,GPL=2,DDSL=17,DDGA=2
2* HDS=(0,306,0,1,32,6,0,9792,7,8,80,33)
3* HDS=(0,306,1,1,32,6,0,9792,7,8,80,33)
4* HDS=(0,306,2,1,32,6,0,9792,7,8,80,33)
5* HDS=(0,306,3,1,32,6,0,9792,7,8,80,33)
6* HDS=(0,306,4,1,32,6,0,9792,7,8,80,33)
7* HDS=(0,306,5,1,32,6,0,9792,7,8,80,33)
8* TI=A,TD=6,TC=80,SPT=36,TSR=0,GPL=8,DDSL=35,DDGA=6
9* TI=A,TD=6,TC=80,SPT=36,TSR=0,GPL=8,DDSL=35,DDGA=6
```

After the Pdrives have been setup as per above  
\*\*\*\*\* REBOOT THE COMPUTER \*\*\*\*\*

The above HDS settings give you 2.5 MEG per platter.

Then read APPENDIX C - 15 & DO as PER MANUAL  
From - 5.1 thru to 5.3,

DONT DO 5.4 AS THE PDRIVES ARE IN MEMORY.

Then 5.5  
After you have done 5.5 then issue the following commands

THE FOLLOWING STEP WILL TAKE SOME TIME APROX 1 HOUR.

```
FORMAT,3,,,Y,NDMW
FORMAT,4,,,Y,NDMW
FORMAT,5,,,Y,NDMW
FORMAT,6,,,Y,NDMW
FORMAT,7,,,Y,NDMW
```

\*\*\*\* The saga continues on page 3 \*\*\*\*

The above will INITIALISE the SECTORS so that NEWDOS 80 V 2.5 can read them and ALSO puts BOOT/SYS and DIR/SYS on ALL of the platters.

Then 5.6 thru to 5.7

DONT DO 5.8 as You have ALREADY SET UP THE SYSTEM AL.

Then From 5.9 thru to 5.16

This will now Create a BOOT DISK  
& Put the system onto the first platter of the hard disk.

The pdrive of the first platter of the hard disk should look like this  
( only take note of the slots from - 0 TO 5 inclusive ).  
The ones from 6 to 9 are the ones I use.

NEWDOS/80 READY

PDRIVE,0

0# HDS=(0,306,0,1,32,6,0,9792,7,8,80,33)

1# HDS=(0,306,1,1,32,6,0,9792,7,8,80,33)

2# HDS=(0,306,2,1,32,6,0,9792,7,8,80,33)

3# HDS=(0,306,3,1,32,6,0,9792,7,8,80,33)

4# HDS=(0,306,4,1,32,6,0,9792,7,8,80,33)

5# HDS=(0,306,5,1,32,6,0,9792,7,8,80,33)

6# TI=A,TD=6,TC=80,SPT=36,TSR=0,GPL=8,DDSL=35,DDGA=6

7# TI=A,TD=6,TC=80,SPT=36,TSR=0,GPL=8,DDSL=35,DDGA=6

8 TI=A,TD=6,TC=80,SPT=36,TSR=0,GPL=8,DDSL=35,DDGA=6

9 TI=A,TD=6,TC=80,SPT=36,TSR=0,GPL=8,DDSL=35,DDGA=6

This setup will give you the following DRIVE assignments.

0 to 5 are on the hard drive

6 is now OLD DRIVE 2 ( TWO )

7 is now OLD DRIVE 3 ( THREE )

OLD DRIVE 0 is also used to BOOT the HARD DISK from & then NEVER USED AGAIN.

This is the end of the SAGA

Best of Luck

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This has worked on my computer which is a MODEL 4 with 4 DRIVES which are --

0 and 1 are 40 track double sided

2 and 3 are 80 track double sided

I hope this will be of some assistance to you up in Queensland as to a method that will allow you to use the 15 meg hard drives with NEWDOS 80 v 2.5 =====

This is list of the files on this disk

I will add comments to the ones that are not normally on Newdos 2.5

File	Author	Comments
====	=====	=====
ASPOOL/MAS	Newdos	
CHAINBLD/BAS	Newdos	
COMPB/CMD	Compare program by Phil Ereaud ( Prototype version )	
COMPB/TXT	Text for above	
DHD/CMD	Autodir for the hard drive	
DIRCHECK/CMD	Newdos	
DISASSEM/CMD	Newdos	
E/CMD	Command line editor MODEL III ( From northern Bytes )	
E/ASM	ASM for above	
EDTASM/CMD	Newdos	
EXTPDIV/BAS	Newdos	
HDBACKUP/CMD	Newdos	
HDFMTAPP/CMD	Newdos for **** TANDY 5 MEG HARD & APPARAT DRIVES ONLY ***	
HDFORMAT/JCL	Newdos JCL	
HDISK15/TXT	***** This is the text file for the 15 MEG HARD DRIVE *****	
LESCRIPT/CMD	VERSION 1.66	
LESCRIPT/HLP	As above	
LMOFFSET/CMD	Newdos	
NWDB0V2/XLF	Newdos	
NWDB0V25/ILF	Newdos	
SD456/CMD	Screen dump to disk file press 456 and answer prompt	
SUPERZAP/CMD	Newdos	

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