

Most computer data loss is not really data loss at all, rather, the computer simply becomes confused as to where your data is currently located on the hard drive. Many things may cause this confusion, including: a virus, power surges, improper software installation, random hard drive miswrites, installation of a computer game and many other anomalies that can affect the partition, FAT and/or boot sector. Higher Ground Software's **Hard Drive Mechanic** is a low-cost do-it-yourself data recovery solution capable of returning your inaccessible files to you, by re-aligning or re-constructing the file system.

Support@highergroundsoftware.co  
Higher Ground Software, Inc.  
541 10th Street N.W. #328  
Atlanta, Georgia U.S.A. 30318

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# Welcome to **The Hard Drive Mechanic™** Deluxe Manual and Gold Manual.

**Note:** This manual contains screens that indicate The Hard Drive Mechanic Deluxe However, with the exception that the SMART button is on the main screen for the 'Gold' product, most all functions are identical. If you have any questions contact Higher Ground at 770-997-8410.

This manual is a step by step guide to diagnosing and repairing your PC file system problem(s). By following this manual you will be able to quickly identify and correct over 99% of your PC file system problem(s) in just minutes.

We will begin by running diagnostics to determine the file system problem(s). Once the problem(s) are identified we will move to the appropriate repair feature and initiate repair.

You will notice that on each button one letter is a different color or shade than the rest. The shaded or colored letter corresponds to the key you must press on the keyboard to execute that function.



**Note:** **The Hard Drive Mechanic** does not use the mouse.

Following is a brief description of the main functions:

**Diagnostics** – Used to determine the exact nature of the hard drive problem.

**IDE Utilities** – Used to determine if the problem is caused by the hard drives' electronics. **On the Gold Product, this does not appear, instead the button says S.M.A.R.T**

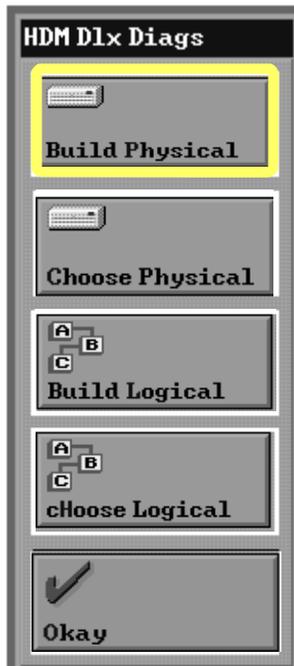
**File System** – Used to repair the damage.

**Rescue Disc** – Used to create rescue diskettes, which can reverse any action performed by **The Hard Drive Mechanic** in the event that it cannot fix a problem.

**Single File Processor (S.F.P.)** – Used as a last resort in the event the hard drives' files systems are unrecoverable.

**Exit**— Exits the program to DOS.

# File System Diagnostics Page



## Let Us Begin

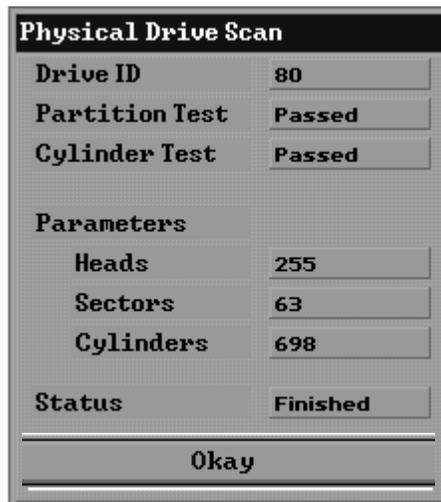
**STEP 1:** Pres 'D' for **Diagnostics**. The screen to the left will come up.

**STEP 2:** Pres 'P' for **Build Physical**. The screen below will come up.

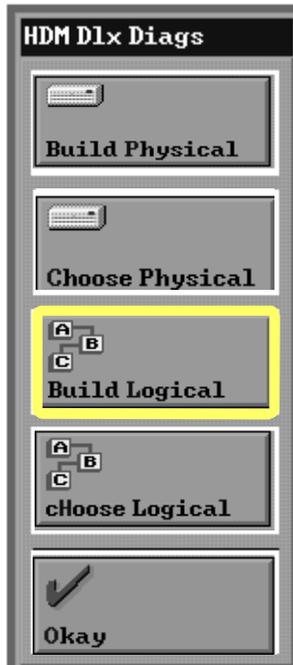
**Note:** This message may appear: "Geometry Inconsistency: PARTITION TABLE AND BIOS TABLE CONFLICT."

If the message appears, press **Okay**.

**STEP 3:** Pres **Okay**.



# File System Diagnostics Page



**STEP 4:** Press 'L' for **Build Logical**. The screen below will come up.

**Note:** **This question may appear:** "Will this version of Windows support FAT32 file system?"

**Answer:** If your computer has Windows 98 or higher press **Yes**. If your computer has Windows 95 or lower press **No**.

A series of tests called Phases will begin. The first test is pictured below.

**Note:** **This question may appear:** "Has a FAT 16 - FAT32 conversion utility been used?"

**Answer:** Generally the answer to this question is **No**. However if you have used such a utility, the answer is **Yes**.

Press **Okay** when this test is complete.



# File System Diagnostics Testing

**Note:** The following three testing phases will come up in succession. When each phase is complete press **O**kay.

PHASE 2 -- Boot Record Typing and Testing

LID	c
Type	FAT 32
Status	Finished
Static Tests	Passed...
Calculated Tests	Passed...

Okay

**During Phases 2 and 3 this message may pop up:** "Will this version of windows support FAT32 file system?"

**Answer:** If your computer has Windows 98 or higher press **Y**es. If you computer has Windows 95 or lower press **N**o.

**During Phases 2 and 3 this message may pop up:** "Has a FAT 16 - FAT32 conversion utility been used?"

**Answer:** Generally, the answer to this question is **N**o. However if you have used such a utility, the answer is **Y**es.

PHASE 3 -- File Allocation Table Testing

LID	c
Type	FAT 32
Status	Finished
Static Tests	Idle...
Mirror/Size Tests	Idle...

Okay

PHASE 4 -- Geometry and Alignment Testing

LID	
Type	
Status	Finished
Correct	0
Incorrect	0

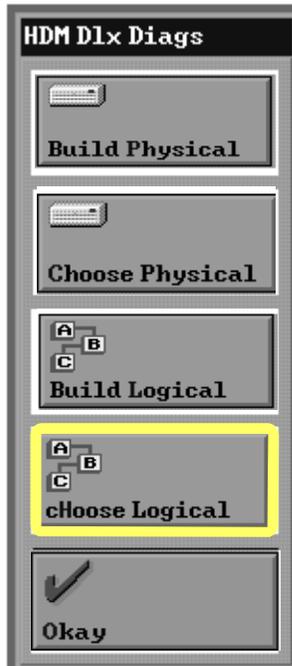
Okay

**During Phase 4 this message may pop up:** "The Mechanic cannot determine the files system size, are there just a few files on the hard drive?"

**Answer:** If there are more than a few files on your hard drive press **N**o.

**Note:** In some cases this test may take 15 to 30 minutes or more.

# File System Diagnostics Page



**STEP 6:** Pres 'H' for cChoose Logical.

**Note:** The screen below will come up. This screen allows you to target the failed drive.



**STEP 7:** In succession press 1,2,3,and 4 to determine the results of each phase test.

**Note:** Tests always begin with the 'C' drive:

If a drive other than the 'C' drive has failed the test in a phase, use the *up arrow* or *down arrow* keys on the keyboard to move to the next drive.

**Example:** You have drives C, D and E. On Phase 2 drive E failed. Use the *up arrow* or *down arrow* to select the failed drive. Press enter on the keyboard. The failed drive will appear below the **LID** field.

**STEP 8:** Pres Okay. Failed drive will load.

**STEP 9:** Pres Okay.

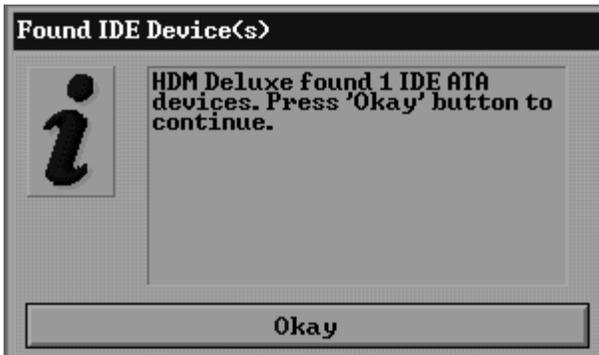
**\*\*File System Diagnostics is now complete\*\***

# Hardware Diagnostics Testing pg. 1



**STEP 1:** Pres **'I'** for **IDE Utilities** to begin Hardware Diagnostics. Or if you are using 'The Mechanic Gold' Press **'S'** for SMART.

**Note:** The following screen will come up.



**STEP 2:** Pres **O**okay. The following screen will come up.



**STEP 3:** Pres **'D'** for **Internal Diags**. The Internal Diagnostics screen will come up.

**Note:** If you see the word 'failure' anywhere on this screen contact **Higher Ground Software** at 770-997-8410.

**STEP 4:** Pres **O**okay.

# Hardware Diagnostics Testing pg. 2



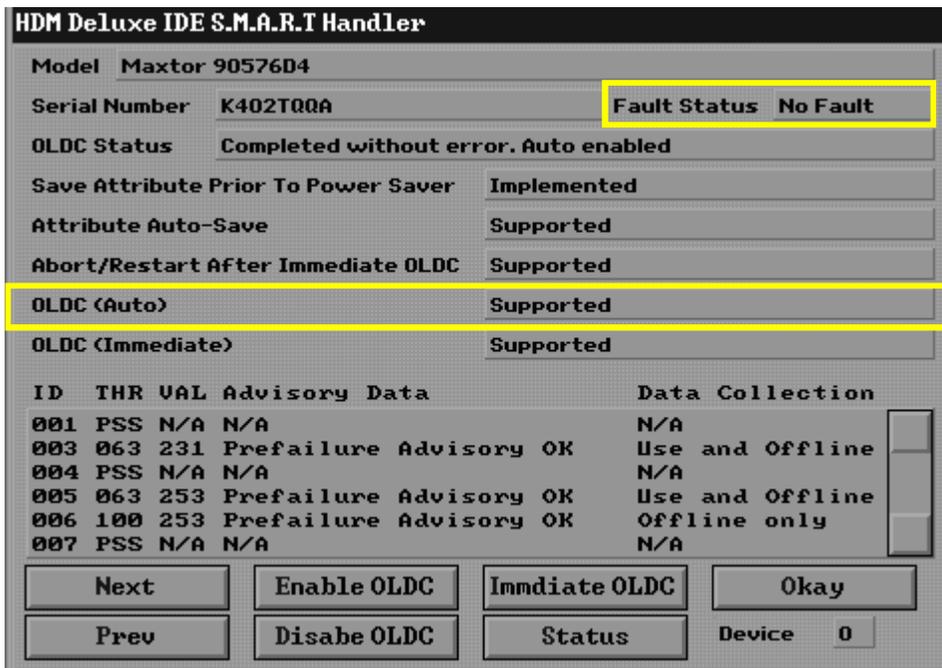
**STEP 5:** Pres 'S' for SMART utilities. The Screen below will come up.

**Note:** The **Fault Status** field should say 'No Fault'. If it says anything other than that, call Higher Ground Software at 770-997-8410.

If the **OLDC (Auto)** field reads 'Supported', Press 'E'. This will turn on your **S.M.A.R.T** technology to assist in monitoring for future hard drive failure.

**STEP 6:** Pres Okay.

**Hardware Diagnostics is now complete.**



# File System Back-Up



**Note:** If you choose to make a rescue disk proceed to **STEP 1** . **This step is advised but not required.** If you choose to bypass this step proceed to **STEP 2** . If it has been previously determined by **The Mechanic** that your file system is unfixable and you need to move all of your files to another drive, press **'S'**. This will take you to the **Single File Processor** screen. **Skip the following steps and turn to page 15.**



**STEP 1A:** Press **'R'** to create the rescue disk(s). The screen to the left will come up.

**STEP 1B:** Press **'S'**. Follow the disc insertion tasks.

**STEP 1C:** Press **Okay**.

**STEP 1D:** Press **'F'** to move to The Repair Process.

**OR**

**STEP 2A:** Press **'F'** to move to The Repair Process.

**INCOMPLETE PAGE # IN NOTE BOX MUST BE ADDED.**

# The Repair Process



**Phase 1 failure:** If the Phase 1 test failed, press '**P**'. Go to **Page 13, Step 1** of the manual. If this is your second failure of Phase 1 go to **Page 13, Step 2**.

**Phase 2 failure:** If the Phase 2 test failed, press '**D**'. Go to **Page 12, Step 1** of the manual. If this is your second failure of Phase 2 go to **Page 12, Step 2**.

**Phase 3 failure:** If the Phase 3 test failed, press '**F**'. Go to **Page 14, Step 1** of the manual. If this is your second failure of Phase 3 go to **Page 14, Step 2**.

**Phase 4 failure:** If the Phase 4 test failed, press '**F**'. Go to **Page 14** of the manual. First read the note below.

**Note:** If the **F.A.T (File Allocate Table)** screen is blank or contains garbage contact **Higher Ground Software** at 770-997-8410.

**PAGE #S MUST BE CORRECTED**

# The Boot Record Repair Screen

HDM D1x Boot Record			
	Version	MSWIN4.1	
File System Type	FAT32	Volume Label	NO NAME
Bytes Per Sector	512	Root Directory	2
Sectors Per Cluster	8	Total Heads	255
Sectors Per Track	63	Reserved Sectors	32
Sectors Per FAT	10956	Total Sectors	11229372
Repair		Clean	Drive
Memory		Okay	C MEM

(1A)



## (Initial Repair Steps)

**STEP 1:** Press 'R' for Repair.

**Note:** The following message will pop up: "You are about to write data to your hard drive! Doing so may cause more damage. Are you sure you want to write to your boot record?"

**STEP 1A:** Press Yes **only** if the drive letter in the box next to **MEM** corresponds with the drive you selected earlier for repair.

**STEP 1B:** Press Okay. Move to the next repair phase or reboot your PC.

---

## (Second Failure Repair Steps)

**STEP 2:** Press 'C' for Clean.

**Note:** The following message will pop up: "You are about to write data to your hard drive! Doing so may cause more damage. Are you sure you want to clean your boot record?"

**STEP 2A:** Press Yes **only** if the drive letter in the box next to **MEM** corresponds with the drive you selected earlier for repair.

**STEP 2B:** Press 'R' for Repair.

**Note:** The following message will pop up: "You are about to write data to your hard drive! Doing so may cause more damage. Are you sure you want to write to your boot record?"

**STEP 2C:** Press Yes.

**STEP 2D:** Press Okay. Move to the next repair phase or reboot your PC.

# The Partition Table Repair Screen

HDM D1x Partition Table									
Boot	File Sys	Beginning			Ending			Relative Sectors	Total Sectors
		Head	Sec	Cyln	Head	Sec	Cyln		
YES	FAT 32	1	1	0	254	63	872	63	14024682
NO	UNKNOW	0	0	0	0	0	0	0	0
NO	UNKNOW	0	0	0	0	0	0	0	0
NO	UNKNOW	0	0	0	0	0	0	0	0

Repair Clean Drive Memory Okay C MEM



(1A)

## (Initial Repair Steps)

**STEP 1:** Pres 'R' for Repair.

**Note:** The following message will pop up: "You are about to write data to your hard drive! Doing so may cause more damage. Are you sure you want to write to your Partition Table?"

**STEP 1A:** Press Yes **only** if the drive letter in the box next to **MEM** corresponds with the drive you selected earlier for repair.

**STEP 1B:** Press Okay. Move to the next repair phase or reboot your PC.

---

## (Second Failure Repair Steps)

**STEP 2:** Pres 'C' for Clean.

**Note:** The following message will pop up: "You are about to write data to your hard drive! Doing so may cause more damage. Are you sure you want to clean your Partition Table?"

**STEP 2A:** Press Yes **only** if the drive letter in the box next to **MEM** corresponds with the drive you selected earlier for repair.

**STEP 2B:** Press 'R' for Repair.

**Note:** The following message will pop up: "You are about to write data to your hard drive! Doing so may cause more damage. Are you sure you want to clean your partition table?"

**STEP 2C:** Press Yes.

**STEP 2D:** Press Okay. Move to the next repair phase or reboot your PC.

# The File Allocation Table (F.A.T.) Repair Screen

Name	Ext	Size	Cluster	Date	Time
SUHDLOG	BAK	5166	275845	07-31-98	09:35:18
SCANDISK	LOG	6504	12458	08-02-98	10:29:26
SUHDLOG	DAT	5166	223197	07-31-98	17:30:48
DETLOG	TXT	71103	2485	08-04-98	18:10:52
OEM95		0	67382	08-24-97	17:40:42
DETLOC	OLD	5245	805	07-31-98	17:33:30
MSDOS	SYS	1694	223199	07-31-98	17:33:38
MSDOS	---	1694	67388	06-25-98	02:18:52
BOOTLOG	PRU	30578	14509	07-31-98	17:38:58
DEADLY		0	614502	07-23-98	16:10:46

Build FAT Only    Repair    Copy FAT1 > FAT2    Okay

**Note:** If the above screen is blank or has garbage **STOP** and call **Higher Ground Software** at **770-997-8410**.

## (Initial Repair Steps)

**STEP 1:** Pres **'R'** for **Repair**.

**Note:** **The Following message will pop up:** *"You are about to write data to your hard drive! Doing so may cause more damage. Are you sure you want to write to your F.A.T.?"*

**STEP 1A:** Press **Y**es.

**STEP 1B:** Press **O**kay. Move to the next repair phase or reboot your PC.

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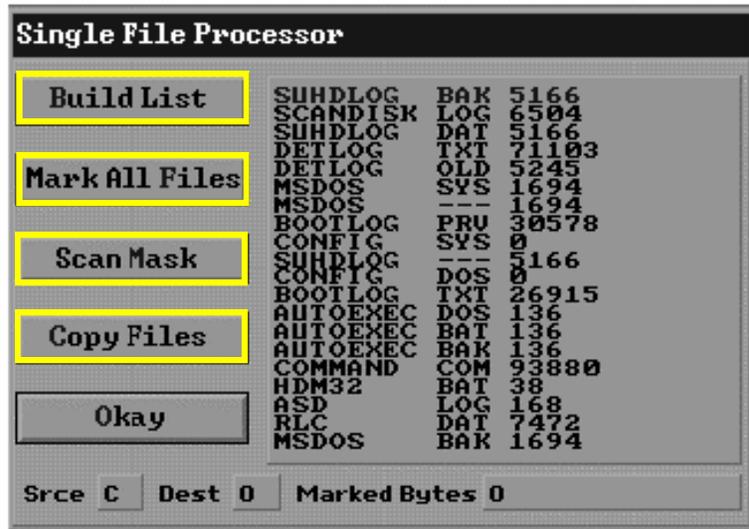
## (Second Failure Repair Steps)

**STEP 2:** Pres **'B'** for **Build FAT Only**.

**This message will pop up:** *"You are about to write data to your hard drive! Doing so may cause more damage. Are you sure you want to Build your FAT?"*

**STEP 2A:** Press **O**kay. Exit the program and reboot your PC.

# Disaster Recover —The Single File Processor



**Note:** If you are selecting **ALL** files to move to another hard drive go to **STEP 1**.  
**OR**  
If selecting **Specific** files go to **STEP 2**.

**STEP 1:** Pres **B** for **Build List**. Move to **STEP 3**.

**Note:** This function scans the drive for all files and can take anywhere from 2 hours to 2 days to complete. Once it is complete you may scroll through the list using the ↑ or ↓ keys.

**STEP 2:** Pres **M** for **Scan Mask**. Move to **STEP 1**.

**Note:** This function allows you to select specific files. For example: **\*.doc** will select only **.doc** extension files while **Ti?.\*** will give you all files starting with the letters **'Ti'**. To select multiple files, separate them with a comma.

**STEP 3:** Pres **F** for **Mark All Files**.

**Note:** You may scroll through your entire list and Unmark or Mark specific files for retrieval.

\*Pressing **`M'** on your keyboard will mark a file for retrieval.

\*Pressing **`U'** on your keyboard will unmark a file for retrieval.

**STEP 4:** Pres **C** for **Copy files**.

**Note:** There must be a least two physical drives on the system in order for the copy command to work. The destination hard drive must have sufficient space in order to accommodate all the files.

**STEP 5:** Pres **Okay**. Exit the program. Reboot your PC.

**This Completes The Hard Drive Mechanic Disaster Recovery.**

# Appendix

## Smart Screen Functions and Fields

**HDM DeLuxe IDE S.M.A.R.T Handler**

Model **Maxtor 9057604**

Serial Number **K402TQQA**      Fault Status **No Fault**

OLDC Status **Completed without error. Auto enabled**

Save Attribute Prior To Power Saver **Implemented**

Attribute Auto-Save **Supported**

Abort/Restart After Immediate OLDC **Supported**

OLDC (Auto) **Supported**

OLDC (Immediate) **Supported**

ID	THR	VAL	Advisory	Data	Data Collection
001	PSS	N/A	N/A		N/A
003	063	231	Prefailure	Advisory OK	Use and Offline
004	PSS	N/A	N/A		N/A
005	063	253	Prefailure	Advisory OK	Use and Offline
006	100	253	Prefailure	Advisory OK	Offline only
007	PSS	N/A	N/A		N/A

Next      Enable OLDC      Immediate OLDC      Okay

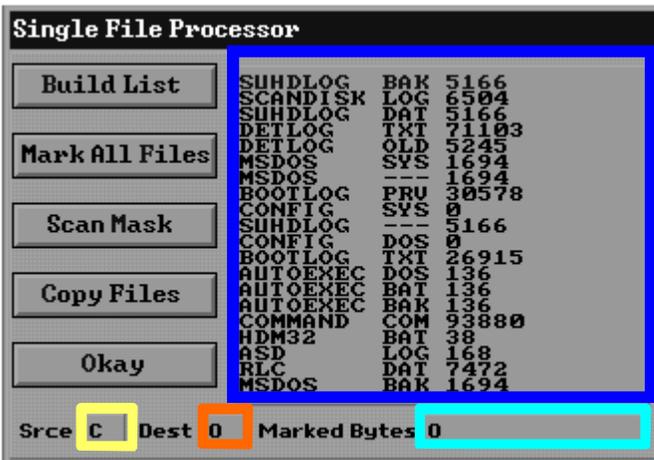
Prev      Disable OLDC      Status      Device **0**

Following is a short description of the functions and fields.

- The **Model** field is the manufacturer and model number of the drive(s).
- The **Serial Number** field is the serial number of the hard drive.
- The **Fault Status** field indicates whether the **S.M.A.R.T** technology has or has not detected a problem. There may or may not be a message in this space if the **OLDC (Auto)** field is '**Not Supported**'.
- The **OLDC (Offline Data Collection) Status** field indicates the results of the tests. (In the above red rectangle you may use the arrow keys to scroll for additional tests).
- The **Save Attribute Prior to Power Saver** monitors for power saver and saves prior to its execution.
- The **Attribute Auto-Save** saves the current attributes.
- The **Abort/Restart After Immediate OLDC** Resets after pressing immediate OLDC.
- The **OLDC (Auto)** field indicates '**Supported**' if the drive allows for constant monitoring of the S.M.A.R.T. technology and '**Not Supported**' if it does not. This function is turned on by pressing the **Enable OLDC** button and turned off by pressing the **Disable OLDC** button.
- The **OLDC (Immediate)** field is used to instantly check the condition of the hard drive. This function is used if the **OLDC (Auto)** is '**Not Supported**' and initiated by pressing the **Immediate OLDC** button.
- Enable OLDC button turns on self monitoring
- Disable OLDC button turns off self monitoring
- Immediate OLDC executes a check if auto monitoring is not supported.

# Single File Processor (S.F.P) Functions

**Note:** This function is only used as a last resort. The **Single File Processor** is designed to recover files when the file system cannot be repaired. This field will locate and copy all files on the hard drive and relocate the files to a separate hard drive.



This letter indicates the damaged drive.

The number in this box indicates the destination drive.

The number in this box indicates the total number of bytes to be copied to the destination drive.

This field shows all files found. You can scroll using your arrow keys to look at the entire list.

## Build List

This function scans the drive for all file names or file names matching the **Scan Mask** template.

## Mark All Files

This function selects all files listed for retrieval.

## Scan Mask

This function allows you to select specific files for removal.

## Copy files

This function will move all selected files to the new drive.

**NOTE:** There must be at least two physical drives on the system in order for the copy function to work.

# IDE Identifier Functions

**HDM Deluxe IDE Identify Drives**

Model	Maxtor 90576D4		
Serial Number	K402TQQA	Rev	WAS82739
MFM Encoded	Yes	Heads	16
Sector Type		Sectors	63
Seek Time	< 15usec	Cylinders	11166
DMA Xfer	Yes	R/W SPI	16
Xfer Rate		UNF BP Track	0
RS Tolerance	< 0.5%	UNF BP Sector	0
I/O Access	16	Buffer Size	262144
DMA Timing Mode	2	PIO Timing Mode	2
Cycle Time	480	Cycle Time	383
DIOR/DIOW 16 bit	240	DIOR/DIOW 16 bit	125
DIOW Data Setup	100	DIOW Data Setup	45
DIOW Data Hold	30	DIOW Data Hold	20
DIOR Data Setup	150	DIOR Data Setup	35
DIOR Data Hold	5	DIOR Data Hold	5
Buffer Type	Dual Port, BISYNCHRONOUS, CACHED		
Next	Prev	Okay	Device 0

**Note:** This screen identifies all hard drive(s) in the PC along with their specifications, manufacturer, model and serial number.

These button allows you to cycle through all hard drives.

# Boot Record Repair Functions

**Note:** This screen shows the boot sector, file system type and volume label information.

The screenshot shows a window titled "HDM D1x Boot Record". It contains a table of boot record information and a row of control buttons. The table has two columns: the left column lists parameters like File System Type, Bytes Per Sector, Sectors Per Cluster, Sectors Per Track, and Sectors Per FAT. The right column lists parameters like Version, MSWIN4.1, Volume Label, Root Directory, Total Heads, Reserved Sectors, and Total Sectors. The buttons at the bottom are Repair, Clean, Drive, Memory, Okay, C, and MEM. The C and MEM buttons are highlighted with a yellow box, and the MEM button is also highlighted with an orange box.

	Version	MSWIN4.1		
File System Type	FAT32		Volume Label	NO NAME
Bytes Per Sector	512		Root Directory	2
Sectors Per Cluster	8		Total Heads	255
Sectors Per Track	63		Reserved Sectors	32
Sectors Per FAT	10956		Total Sectors	11229372

Buttons: Repair, Clean, Drive, Memory, Okay, C, MEM

This is your drive setup information.

The letter in this box indicates which partition you are viewing.

This box indicates whether the information presented is in the memory or the hard drive.

**Repair:** This function repairs the boot record.

**Clean:** This function erases the boot record.

**Drive:** This function reads the information as reported by the currently loaded partition table.

**Memory:** This function displays the changes the **Mechanic** will make once you press **Repair**.

# The Partition Table Repair Screen

**Note:** This screen shows all current partitions loaded into memory.

Boot	File Sys	Beginning			Ending			Relative Sectors	Total Sectors
		Head	Sec	Cyl	Head	Sec	Cyl		
YES	FAT 32	1	1	0	254	63	872	63	14024682
NO	UNKNOW	0	0	0	0	0	0	0	0
NO	UNKNOW	0	0	0	0	0	0	0	0
NO	UNKNOW	0	0	0	0	0	0	0	0

Buttons: Repair, Clean, Drive, Memory, Okay, C, MEM

This information shows you the various partitions on your drive and their file system type.

This information shows you the head sector and cylinder information associated with each partition.

The letter in this box indicates whether the information presented here is in memory or reported by the drive itself.

**Repair:** This function repairs the partition.

**Clean:** This function erases the partition.

**Drive:** This function reads the information as reported by the currently loaded partition table.

**Memory:** This function displays the changes **The Mechanic** will make once you press **Repair**.

# The File Allocation Table (F.A.T.) Repair Screen

**Note:** This screen shows up to ten (10) files along with their extension, size, cluster location, date and time.

Name	Ext	Size	Cluster	Date	Time
SUHDLOG	BAK	5166	273843	07-31-98	09:35:18
SCANDISK	LOG	6504	12458	08-02-98	10:29:26
SUHDLOG	DAT	5166	223197	07-31-98	17:30:48
DETLOG	TXT	71103	2485	08-04-98	18:10:52
OEM95		0	67382	08-24-97	17:40:42
DETLOG	OLD	5245	805	07-31-98	17:33:30
MSDOS	SYS	1694	223199	07-31-98	17:33:38
MSDOS	---	1694	67388	06-25-98	02:18:52
BOOTLOG	PRU	30578	14509	07-31-98	17:38:58
DEADLY		0	614502	07-23-98	16:10:46

Build FAT Only    Repair    Copy FAT1 > FAT2    Okay

This information shows up to 10 file names, extensions and file sizes.

This information shows the file cluster location, date and time the files were created.

**Build FAT only:** Rebuilds the damaged FAT.

**Repair:** Repairs the damaged FAT.

**Copy FAT1>FAT2 :** This function copies FAT2 to FAT1.