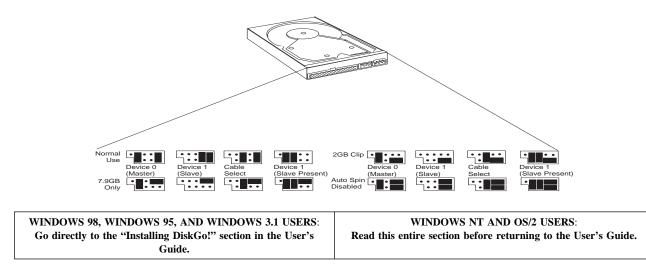
10.1/16.8 GB Enhanced IDE Hard Disk Drive User's Guide Supplement

This supplement contains jumper settings, specifications, and warranty information for your hard disk drive.



The IBM Enhanced IDE 10.1 and 16.8 GB Hard Disk Drives offer a choice of jumper configurations, so that the drive will function properly on the widest range of computers. In some computers, the BIOS will not recognize a hard disk drive reporting more than a 2.1 GB capacity. The following instructions will help you determine if your computer has this kind of BIOS, and what configuration settings your computer requires.

- 1. Locate the jumper configuration settings label on the back of your drive. Use a jumper setting from the **Normal Use** set.
- 2. Return to the *User's Guide* and follow instructions beginning with "Determining Where to Begin" in the Installation Guide (Part 2).
- 3. If you follow the steps in the *User's Guide*, and the configuration-setup program recognizes your drive at its true capacity, partition and format your drive using instructions given in the "Partitioning and Formatting Your Drive" section in the *User's Guide*. If the configuration-setup program reports the drive's capacity as smaller than what it actually is, you must use *Disk Manager* to access the drive's full capacity.
- 4. If your drive seems to lockup or hang after you restart your system, check the computer's interface and power supply connections. Next, attempt to disable the autodetection facility of your setup software as described in "Step 1. Solving Problems" in the *User's Guide* Appendix B. If your drive continues to function incorrectly after performing the above actions, continue to step 5.
- 5. Your computer may have problems starting up because the setup program in your BIOS cannot correctly identify your high-capacity drive. Change the configuration jumpers on the drive to the correct selection in the set titled **2 GB Clip**, illustrated above. If you need a third jumper for your setting, look for an extra jumper in a small bag, included in your option package. The **2 GB Clip** jumper settings allow the BIOS to treat your drive as a 2.1 GB drive, which prevents BIOS problems when you start the computer. Return to the *User's Guide* as directed in step 2 above and attempt to complete the installation again. You will need to use *Disk Manager* to access your drive's full capacity. If your system still locks up or hangs, refer to "Step 3. Placing the Call to IBM" in the *User's Guide* Appendix B.

ATTENTION OS/2 USERS: This hard drive requires the latest OS/2 device drivers to use its full capacity. Go to the OS/2 Device Driver Web page (**OS/2 Device Driver Pak**) at http://service.software.ibm.com/os2ddpak/html/index.htm to obtain the OS/2 hard drive updates. Select "OS/2 Component Updates." Select "Installation Diskette Updates." Then select "Greater than 4.3 GB IDE Hardfile Support." Next, download the "idedasd.exe" file. (Read "helpful instructions" for download instructions.) Follow all the instructions in the "readme" included in the "idedasd.exe" file to install the hard drive updates. Use the diskettes to install the device drivers that allow OS/2 to use the full capacity of your hard disk drive.

	10.1 GB Drive	16.8 GB Drive
Operating Environment:	Operating / Not Operating	Operating / Not Operating
Shock (11ms)	10 G/75 G	10 G/75 G
Temperature (inside the system)	5°-55°C/0°-65°C	5°–55°C/0°–65°C
Relative humidity (non-condensing)	8%-90% / 5%-95%	8%-90% / 5%-95%
Vibration	1.0 G/2.0 G	1.0 G/2.0 G
Vibration	1.0 072.0 0	1.0 072.0 0
Power Requirements (typical averages):		
+5 V dc idle amps	0.29	0.29
+12 V dc idle amps	0.45	0.29
+5 V dc startup amps	0.70	0.70
+12 V dc startup amps	2.0	2.0
Idle power watts	6.9	4.9
Performance ¹ (all values typical averages):		
Read - seek time	9.5 ms	9.5 ms
Write - seek time	10.5 ms	10.5 ms
Rotational speed	7200 RPM	5400 RPM
Buffer size	512 KB ²	512 KB ²
Builer size	312 KD-	312 KB-
Part Numbers:		
Option part number	20L0548	01K1324
Drive part number	03L5260	00K4072
Field Replaceable Unit (FRU) part number	10L6063	10L6019
Logical Parameters:		
Number of heads	16	16
Number of cylinders	16383	16383
Number of sectors per track	63	63
-		
Disk Drive Configuration:	10100 MD	16900 MD
Formatted capacity	10100 MB	16800 MB
Disk Transfer (Buffer to Host):		
Burst (Max. MB/sec)		
Ultra DMA Mode-2	33	33
DMA Mode-2	16.6	16.6
PIO Mode-4	16.6	16.6
Sustained (Avg. MB/sec)	8–13	6-12

¹Actual performance varies based upon many factors and is frequently less than the maximum possible. ²Up to 50 KB reserved for drive firmware.

The following warranty information applies to products purchased in the United States, Canada, and Puerto Rico. For warranty terms and conditions for products purchased in other countries, see the enclosed Warranty insert, or contact your IBM reseller or IBM marketing representative.

International Business Machines	Armonk, New York,
Corporation	10504

Machine: 16.8 GB Hard Disk Drive Option P/N: 01K1324 10.1 GB Hard Disk Drive Option P/N: 20L0548

Warranty Period*: Three Years

*Contact your place of purchase for warranty service information.

Production Status

Each Machine is manufactured from new parts, or new and used parts. In some cases, the Machine may not be new and may have

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status, IBM's warranty terms apply.

been previously installed. Regardless of the Machine's production

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IBM or your reseller will provide certain types of repair and exchange service, either at your location or at IBM's or your reseller's service center, to restore a Machine to good working order.

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- 2. where applicable, before service is provided ---

- a. follow the problem determination, problem analysis, and service request procedures that IBM or your reseller provide,
- b. secure all programs, data, and funds contained in a Machine, and
- c. inform IBM or your reseller of changes in a Machine's location.

IBM is responsible for loss of, or damage to, your Machine while it is 1) in IBM's possession or 2) in transit in those cases where IBM is responsible for the transportation charges.

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