



Quick installation guide

Deskstar 40GV & 75GXP

Ultra ATA/100



- Models:
- | | |
|-------------|-------------|
| DTLA-305010 | DTLA-372015 |
| DTLA-305020 | DTLA-307020 |
| DTLA-305030 | DTLA-307030 |
| DTLA-305040 | DTLA-307045 |
| | DTLA-307060 |
| | DTLA-307075 |

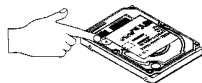
System requirements for Ultra ATA/100

- 40 pin, 80 conductor cable
- A controller card or motherboard chipset with Ultra ATA/100 capability
- Ultra ATA/100 compatible BIOS

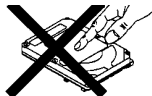
If you do not have the above components, your drive will function but at speeds lower than 100 MB/second.

Handling precautions

- Set the drive down gently to prevent damage from impact or vibration.
- Do not open the ESD bag containing the drive until needed.
- Handle the drive carefully by the edges. Do not touch the exposed printed circuit board or any electronic components.
- Do not press on the top or bottom of the drive.



- Do not cover the drive breather hole.



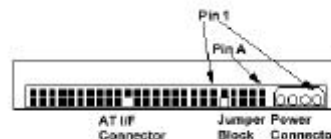
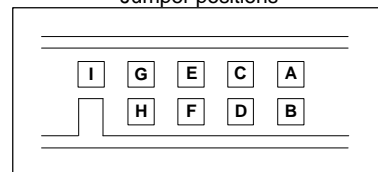
- Before handling the hard disk drive, discharge any static electricity from you and your clothing. With one hand touch an unpainted metal surface on your computer chassis, then touch the ESD bag with the other hand. Remain in contact with the chassis and the bag for a minimum of two seconds.

Quick installation procedure

IMPORTANT: Back up all data before beginning installation!

1. Turn off your computer system.
2. Remove cover as instructed by your computer system manual.
3. Discharge static electricity per handling precautions.
4. Unplug your computer.
5. Note mounting position of existing drive(s) and cable(s). If replacing a drive or cable, remove it.
6. Remove drive from ESD bag.
7. Record model, part, and serial number for future reference.
8. Refer to the diagram below to set the required jumpers.
 - If the drive will be the only drive on a cable or the Master drive on a two-drive cable, leave the jumpers as set at A-B and G-H for 16 head logical architecture. The jumpers are factory-set to Master-16 heads.
 - If the drive will be the Slave drive on a two-drive cable, set the jumpers at A-B and C-D for 16 logical head architecture.

Jumper positions



IBM storage products

9. Attach the IDE cable.
 - If you have a 40-pin 40-conductor cable, attach the system connector of the cable to the IDE port on the motherboard or controller card. The pin 1 side of an IDE cable is marked with a stripe. The connectors are keyed to insert one way only.
 - If you have a 40-pin 80-conductor cable, attach the drive to the appropriate color coded connector. 40-pin 80-conductor cables are color coded for Master, Slave, and system connectors. The Master connector is black, the Slave connector is gray, and the system connector is blue.
10. Attach the power supply cable to the hard disk drive. Match the connector bevels.
11. Mount the drive securely.
12. Verify all attachments.
13. Replace the computer cover.
14. Plug in your computer.
15. Insert the DriveGuide or OS setup diskette in the floppy drive.
16. Turn on the computer.
17. Set the BIOS options of your computer system to Auto Detection and LBA mode if available. Key sequences for accessing your BIOS can be found in your computer system manual. The following chart lists true LBA sector counts and drive capacities. Translated schemes are derived from the LBA count of a drive.

IBM model number	LBA sector count	Capacity
DTLA-305010	20,074,320	10.2 GB
DTLA-305020	40,188,960	20.5 GB
DTLA-305030	60,036,480	30.7 GB
DTLA-305040	80,418,240	41.1 GB
DTLA-307015	30,003,120	15.3 GB
DTLA-307020	40,188,960	20.5 GB
DTLA-307030	60,036,480	30.7 GB
DTLA-307045	90,069,840	46.1 GB
DTLA-307060	120,103,200	61.4 GB
DTLA-307075	150,136,560	76.8 GB

18. Partition and format your drive with one of the following two utilities:
 - DriveGuide
 - i. Boot the DriveGuide installation utility.
 - ii. If the DriveGuide configuration matches your new system configuration, continue. If the system configuration is not a match or if you want to proceed manually, select *no*. Then verify the BIOS settings, cabling, and jumpers. Run DriveGuide again.
 - iii. Drive Guide determines available partition sizes based on the operating system to be installed. Select the partition sizes for your installation.
 - iv. Click "Finish" to complete the partitioning and formatting of your drive.

- FDISK.EXE and FORMAT.EXE (or a similar partitioning software from your operating system)

Follow the instructions provided with your operating system to partition the drive. If FDISK.EXE does not recognize more than 8.4 GB of a drive larger than 8.4 GB, your BIOS may not support Interrupt 13 Extensions.

Format the drive by following the instructions provided with FORMAT.EXE. Formatting will verify the hard disk media and create file allocation tables for the partition.

19. Boot up your system. If your system does not boot up, check all the settings and try again. If the system still fails to boot up, remove the new drive to return the system to its original configuration. Call the IBM Technology Group Support Center for assistance.
20. If your system boots up, install an operating system. Consult the operating system manual for instructions.

For additional information on the drive and its installation see the following Web site.

<http://www.storage.ibm.com/techsup/hddtech/hddtech.htm>



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www.ibm.com/harddrive

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