



Barracuda 7200.7 Serial ATA Installation Guide **ST3160021AS, ST3120022AS, ST380011AS, ST340014AS,** **ST3160023AS, ST3120026AS, and ST380013AS** **Serial ATA (SATA) Interface Disc Drives**

Publication Number: 100270027, Rev. B, March 2003

Serial ATA interface disc drives are designed for easy installation. It is not necessary to set any jumpers, terminators, or other settings on this drive for proper operation. The jumper block adjacent to the SATA interface connector is for factory use only.

With a Serial ATA interface, each disc drive has its own cable that connects directly to a Serial ATA host adapter or a Serial ATA port on your motherboard. Unlike Parallel ATA, there is no master-slave relationship between drives that use a Serial ATA interface.

You can use a Serial ATA drive in the same system with Parallel ATA drives as long as both interfaces are supported on the motherboard or with a host adapter. This makes it easy to add Serial ATA capability to your existing system without removing existing Parallel ATA disc drives.

The easiest way to install your drive

To successfully install and obtain the maximum capacity from the drive, use DiscWizard™ 2003 disc drive installation software utility. This utility is available exclusively from Seagate®. You can download this free disc drive installation software from our web site at www.seagate.com/support or run the program directly from your web browser. In either case, you should run DiscWizard before you install your drive.

Note. Older versions of DiscWizard do not recognize Serial ATA model numbers. Make sure that you use DiscWizard 2003 or later when installing a Barracuda® 7200.7 Serial ATA disc drive.

To run DiscWizard:

Follow the instructions on the download page at www.seagate.com to create a diskette and complete the installation.

If you cannot run DiscWizard, follow the instructions on this installation sheet to install and configure your drive.

What you need

- A Phillips screwdriver and four 6-32 UNC drive mounting screws.
- A Serial ATA interface cable (sold separately). Maximum length is 39 inches (1 meter).
- A Serial ATA-compatible power cable or adapter (sold separately).
- A version of Windows with FAT32 or NTFS file system.
- A system with a motherboard that has a Serial ATA connector on it, or a Serial ATA host adapter and available PCI slot in which to install the adapter.

Refer to your computer system documentation to see if your system supports Serial ATA on the motherboard and to locate the Serial ATA connector. If your system does not have a Serial ATA connector on the motherboard, you must purchase a Serial ATA host adapter that is compatible with your computer and operating system and install it with the appropriate device driver according to the host adapter manufacturer's installation instructions.

Note. See www.seagate.com/support/disc/sata/ for a list of companies that sell Serial ATA components including host adapters, cables, and power adapters.

Handling precautions/electrostatic discharge protection

- Disc drives are fragile. Do not drop or jar the drive. Handle the drive only by the edges or frame. Keep the drive in the protective SeaShell™ container until you are ready to install it to minimize handling damage.
- Drive electronics are extremely sensitive to static electricity. While installing the drive, wear a wrist strap and cable connected to ground.
- Turn off the power to the host system during installation.
- Do not disassemble the drive. Doing so voids the warranty. See the Warranty information on page 2.

- Do not apply pressure or attach labels to the circuit board or to the top of the drive.

Drive characteristics

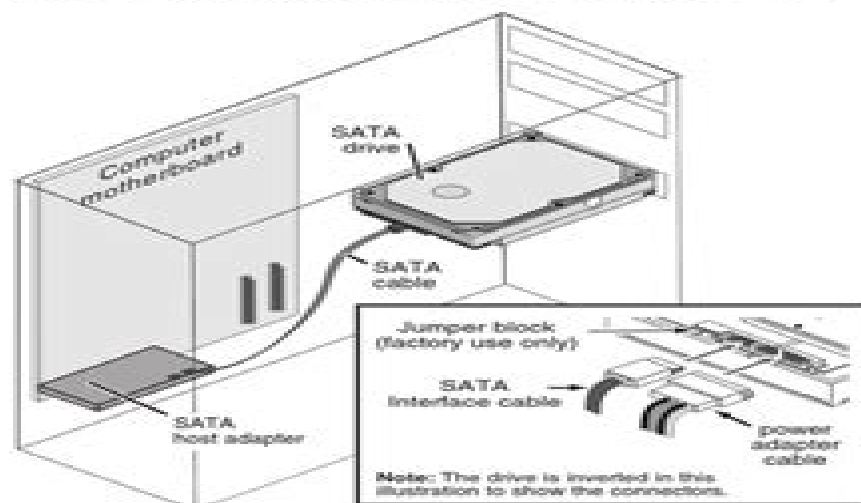
Formatted capacity	ST3160021AS 160 Gbytes	ST3120022AS 120 Gbytes	ST380011AS 80 Gbytes
Total # of sectors*	312,581,808	234,441,648	156,301,488
Cache size	2 Mbytes	2 Mbytes	2 Mbytes
Formatted capacity	ST3160023AS 160 Gbytes	ST3120026AS 120 Gbytes	ST380013AS 80 Gbytes
Total # of sectors*	312,581,808	234,441,648	156,301,488
Cache size	8 Mbytes	8 Mbytes	8 Mbytes
Formatted capacity	ST340014AS 40 Gbytes		
Total # of sectors*	78,165,360		
Cache size	2 Mbytes		

*One sector equals 512 bytes.

Attaching cables and mounting the drive

1. Attach one end of the drive interface cable to the Serial ATA interface connector on your computer's motherboard or Serial ATA host adapter (see your computer manual for connector locations). Host adapter configuration is shown below.

Note. Serial ATA connectors are keyed to ensure correct orientation.



2. Attach the interface and power cables to the drive.
3. Secure the drive using four 6-32 UNC mounting screws in either the side-mounting or bottom-mounting holes. Insert the screws no more than 0.20 inches (5.08 mm) into the bottom-mounting holes and no more than 0.14 inches (3.55 mm) into the side-mounting holes.

Note. Do not overtighten the screws or use metric screws. This may damage the drive.

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Albert A Gayle



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