



MEDALIST SL HARD DRIVE INSTALLATION GUIDE

Medalist 540sl (ST5540A)
Medalist 851sl (ST5851A)
Medalist 1080sl (ST51080A)
Medalist 1270sl (ST51270A)
for ATA (IDE) Compatible PCs



INSTALLING YOUR NEW SEAGATE HARD DRIVE

Thank you for selecting a Seagate disc drive. Installing your new Seagate hard drive is easy when you use this easy drive-installation sheet. For technical information and troubleshooting tips, see the back of this sheet. If you have additional questions, call your computer dealer or contact Seagate technical support.

This symbol indicates additional information on the topic being discussed appears on the back of this sheet.

BEFORE YOU BEGIN

- STOP Important.** Do not format this drive without first reading the instructions and removing the free drive-support software that is stored on the drive.
- Make sure your computer is turned off before you open the case.
- Read the handling precautions at the right, and inspect the drive to make sure that it is not damaged.
- Save your foam-lined Seagate disc drive box. This box has been approved by Seagate for shipping a Seagate disc drive. Using any other container or packing material voids your drive warranty.

HANDLE WITH CARE!

- Disc drives are extremely fragile. Do not drop or jar your drive.
- Keep the drive in its antistatic bag until you are ready to install it.
- Protect your drive from static discharge by making sure you are well grounded before touching the drive. We recommend wearing a grounded wrist strap throughout the installation process. Do not touch the connectors or any part of the printed circuit board.
- Always handle the drive by its edges or frame.
- Do not apply pressure or attach labels to the circuit board or the top of the drive.

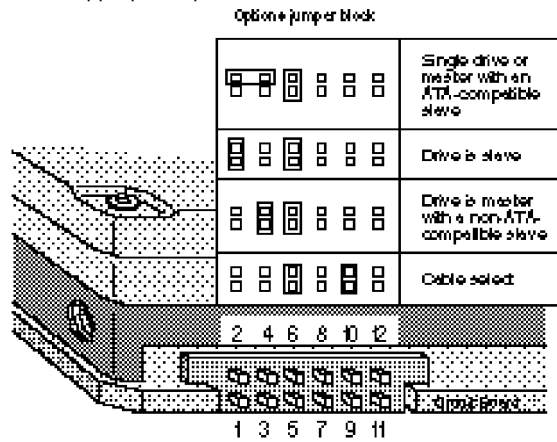
WHAT YOU WILL NEED

- Straight-edge and Phillips screwdrivers
- Drive mounting screws
- If you are mounting this 3.5-inch drive in a 5.25-inch drive bay, you need a mounting adapter or frame kit.
- You may need drive mounting rails if your drive bay is not designed for direct mounting.
- A drive host adapter and connector cable with enough connectors for all your drives
- An unused drive power cable to plug into your new drive
- A bootable DOS system diskette (Seagate recommends using DOS Version 5.0 or later.)
- A blank 1.2-Mbyte or 1.4-Mbyte diskette for transferring the drive-support software to after you have mounted the drive

1. ONE DRIVE OR TWO?

The options jumper block allows you to configure the drive for your system. You can configure it to operate as a single drive, as the master with an ATA-compatible or a non-ATA-compatible slave, as the slave drive, or to work with cable-select. The drawing below shows the configuration settings. The configuration options are discussed on the back.

The factory places jumpers on pins 2 and 4 and pins 5 and 6. This default setting allows you to install the drive as a single drive or as the master with an ATA-compatible slave. To install the drive with a different configuration, move the jumper on pins 2 and 4 to the appropriate pins.



ACCESSING MORE THAN 528 MBYTES

The full capacity of your drive exceeds the maximum capacity many older computers can address. If your computer's BIOS was manufactured before June of 1994, it may not be able to access more than 528 Mbytes. Several options are available for surpassing the 528-Mbyte barrier. We recommend the following:

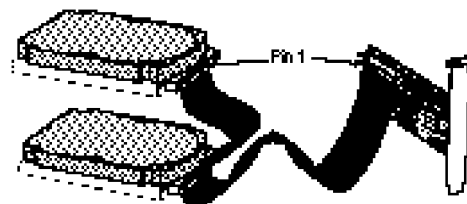
- Use a hard drive controller or a BIOS upgrade that supports drives with capacities greater than 528 Mbytes,
- or
- Use the free Disk Manager software stored on your Seagate drive to install the drive.

Caution. You must transfer the free replacement 32-bit disk access driver for Windows 3.1, Disk Manager installation software and other software stored on the drive to a diskette in Drive A before you partition and format the drive. Instructions for transferring the software are provided in Section 2, "Transferring the Free Seagate Software."

ATTACHING CABLES

- Attach one end of the 40-pin drive interface cable to the interface connector on your computer or host adapter as shown below. After threading the cable through the drive bay, attach your drive or drives to one of the connectors on the interface cable.

Caution. Make sure to align pin 1 of the computer's interface connector or the host adapter with pin 1 of your drive or drives.



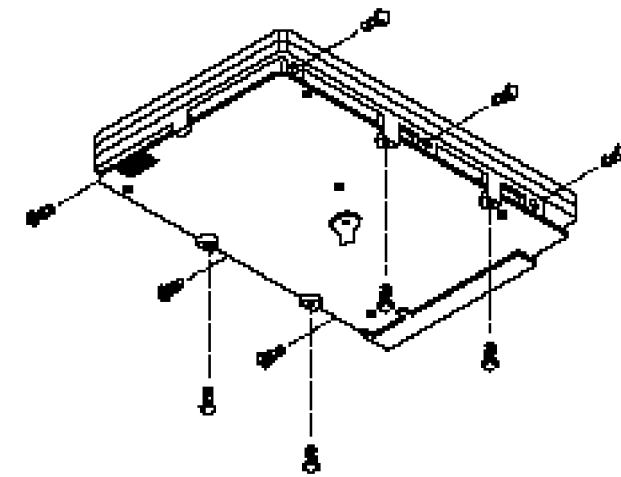
- Attach a power cable to each drive as shown.



MOUNTING THE DRIVE

You can mount the drive in any orientation. Secure the drive with four 6-32 UNC-2A mounting screws not more than six full turns into the drive frame in either the side mounting holes or the bottom mounting holes. Do not overtighten. Do not use metric screws. After mounting the drive, replace your computer cover.

If you are mounting the drive in a 5.25-inch drive bay, you need a mounting adapter or frame kit. Contact your computer dealer. Some computers also require drive mounting rails, which can be obtained from your distributor or computer manufacturer.



2. TRANSFERRING THE FREE SEAGATE SOFTWARE

The factory stores free software files on the drive that 1) allow your computer to access the drive's full capacity when the 528-Mbyte barrier is imposed; 2) you can use to partition and format the drive; and 3) provide information on other Seagate products. Transfer these files to a blank, bootable diskette in Drive A before you partition and format the drive. You need two diskettes if you want all of the files. The software programs are:

SEG32BIT.386. A replacement 32-bit disk access driver for Windows 3.1 that provides full support for drives with capacities greater than 528 Mbytes in Windows.

Disk Manager. Installation software that partitions and formats your drive. It installs a software driver to surpass the 528-Mbyte barrier, if necessary.

DRVINF11. A program that reads an installed ATA drive and displays the drive's major features.

Seamove. Transfers the above software programs to a diskette in Drive A and erases the factory partition and format after the files are transferred.

STDR9511.EXE. The Seagate Technical Desk Reference is a Windows application that contains information on other Seagate products. You must copy this file to a separate diskette using the standard copy command before you use Seamove to transfer the other files.

To make a bootable diskette and transfer the files:

- Turn your computer on and enter Setup. See your computer or motherboard reference manual for instructions on how to enter Setup. It may be called System Setup, BIOS Setup or CMOS Setup.
- Locate the hard disc configuration settings.
- Select user-defined or custom, and configure the drive for 615 cylinders, 4 heads and 17 sectors (Drive-type 2). Save and exit Setup.
- Immediately insert your DOS diskette into Drive A.
- At the A: prompt, type **format a: /s** and press ENTER. The /s switch makes the new diskette bootable.
- The computer reads the DOS diskette and prompts you to insert a blank diskette into Drive A when it is ready to format the new diskette.
- When the format is complete, reboot the computer with the new diskette.
- Access the prompt assigned for your new Seagate drive.
- Type **seamove**. Seamove transfers the files from the drive to your diskette. It erases the partition and the files when the transfer is complete. We refer to this diskette as the Seagate software diskette.

3. CONFIGURING SETUP

You must configure the computer to recognize the full capacity of your drive. If your BIOS cannot access your drive's full capacity and you use Disk Manager, leave the hard drive parameters you used for transferring the software file in Setup. Go to Section 4A "Installation with Disk Manager Software." Disk Manager will install its software driver, Dynamic Drive Overlay (DDO), to make the drive's full capacity available.

If your BIOS can accept more than 528 Mbytes, use the steps below to configure the BIOS. Many BIOSs use logical block addressing (LBA) mode to access drives with capacities greater than 528 Mbytes. Check your documentation for this feature.

- Turn your computer on and enter Setup.
- Enable LBA mode if it is available.
- Locate the hard disc configuration settings.
- If your Setup has an Auto option, select it. Save and exit Setup. The computer automatically determines the drive parameters and configures Setup.

If there is no Auto option and LBA mode is enabled, select user-defined or custom and enter the LBA parameters shown for your drive in the table. If Setup does not accept all of the LBA parameters, use the CHS (cylinder, head and sector) parameters.

If there is no Auto option and no LBA mode, select user-defined or custom and enter the CHS parameters.

Drive Model	Mode	Cylinders	Heads	Sectors per track
ST5540A	CHS	1,050	16	63
ST5851A	CHS	1,656	16	63
ST51080A	CHS	2,100	16	63
ST51270A	CHS	2,485	16	63
ST5540A	LBA	525	32	63
ST5851A	LBA	828	32	63
ST51080A	LBA	525	64	63
ST51270A	LBA	621	64	63

Note. Your drive does not use write precomp or landing zone parameters: set these parameters to zero.

- Save the settings and exit Setup. Your computer will continue the startup sequence.

After the BIOS is configured, you can use either Disk Manager to partition and format the drive (see Section 4A "Installation with Disk Manager") or the standard partition and format (see Section 4B "Standard Partitioning and Formatting").

4A. INSTALLATION WITH DISK MANAGER SOFTWARE

- Boot your computer with the Seagate software diskette in Drive A. This is a precaution to ensure that the Disk Manager installation does not conflict with any terminate-and-stay resident programs that may load into memory.
- At the DOS prompt, type **dm** and press ENTER.

Follow the screen instructions until the Select an Install Option dialog box appears. Select (E)asy Disk Installation and press ENTER. This puts a single partition on the drive.

- Verify that the drive's model number appears on the screen. If you have two drives, both model numbers must appear. Select the drive you want to install and press ENTER. Disk Manager partitions and formats the drive and makes it bootable if it is Drive C.

If the model number is not shown, exit Disk Manager and turn off the computer. Check all cables and jumper settings. Try again.

- Follow the instructions in the post-installation screens.

If the BIOS cannot accept your drive's geometry, Disk Manager installs a software driver, Dynamic Drive Overlay (DDO), that allows your computer to access the drive's full capacity. Read the *Important Information—Please Read* screen carefully; it tells you how to boot with a diskette when your drive requires the Disk Manager software driver.

If your computer requires the DDO to access your new Seagate drive, the Disk Manager banner must appear when you boot the computer after installing the drive. If the banner does not appear, the computer will not recognize the drive. Make sure that Drive A is empty when you boot. Try again.

YOU'RE DONE!

4B. STANDARD PARTITIONING AND FORMATTING

Caution. Partitioning or formatting a drive erases all data on it. Seagate assumes no liability if you erase your data. Before you partition or format the drive, be sure to transfer the free software files that were stored on the drive at the factory.

Drive Partitioning

- Insert a bootable DOS diskette in Drive A and boot your computer.
- At the A: prompt, type **fdisk** and press ENTER.

Note. If you have two drives installed, the menu displays five options. Option five allows you to select the drive you want to partition. Make sure you select the correct drive.

- Type 1 for "Create DOS partition or logical DOS drive" and press ENTER.

- Type 1 and press ENTER to "Create primary DOS partition." Type **yes** and press ENTER. This puts the entire drive on one partition and makes the partition active. When the partitioning is complete, FDISK reboots your computer.

Drive Formatting

At the A: prompt, type **format d: /s**, where *d* is the letter of your new hard drive (DOS automatically assigns a letter for each partition you create).

Caution. Make sure that you use the correct drive letter. All data on the drive is erased during the format.

When the formatting completes, your drive is ready.

YOU'RE DONE!

