

U Series X 10 Installation Guide ST310014A

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The easiest way to install your drive

DiscWizard[™], available exclusively from Seagate, provides you with customized installation instructions for your hard drive. You can download DiscWizard for free from the Seagate 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.

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

What you need for the installation

- A Phillips screwdriver and four 6-32 UNC drive mounting screws
- An ATA interface cable (up to 18 inches long). For optimum drive performance and data integrity, we recommend using an 80-conductor Ultra ATA/100 cable (which can be identified by its blue, gray, and black connectors).
- An unused drive power cable for your new drive

Handling precautions



Disc drives are extremely fragile. Do not drop or jar the drive.

Keep the drive in the protective SeaShell™ container until you are ready to install it. This minimizes handling damage.



Protect your drive from static discharge by wearing a grounded wrist strap throughout the installation process.



Do not apply pressure or attach labels to the circuit board or the top of the drive. Do not remove any existing labels.



Always handle the drive by the edges or frame

1. Set the jumpers

Note: The instructions below assume that you are installing your new Seagate drive in a system that already has a working hard drive. To install the drive in a system that has no working hard drive, see the back of this sheet.

- a. Make sure that your existing drive is set up as a "master." See the drive label or manufacturer's web site for jumper settings.
- b. Your new U Series X drive is shipped with a jumper in the "cable select" position. Set the drive as a "slave" by removing this jumper from the jumper pins. Save the jumper in case you ever need to reconfigure the drive. Jumper settings for the U Series X drive are shown below.



8				Drive is master or single drive		
00				Drive is slave		
00				Use cable select		
8		-	8	Drive is master with non- ATA-compatible slave		

Master/slave jumpers (see table for key to jumper settings)

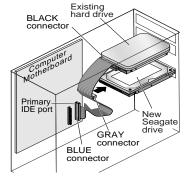
2. Mount the drive and attach cables

a. Slide the drive into a 3.5-inch drive bay. You can mount the drive in any orientation, but we recommend mounting with the circuit board down.

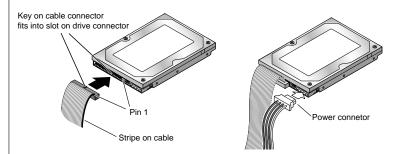
Note: In order to mount the drive in a 5.25-inch drive bay, you must purchase mounting brackets, available from your computer dealer.

- b. 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 inch (5.08 mm) into the bottom-mounting holes and no more than 0.14 inch (3.55 mm) into the side-mounting holes.
- Caution. Do not overtighten the screws or use metric screws. This may damage the drive.
- c. Make sure the BLUE connector on your Ultra ATA/100 cable is plugged

- into the primary IDE port on your computer's motherboard (see your computer manual to determine the location of the primary IDE port).
- Make sure the BLACK connector on the cable is plugged into your existing hard drive.
- e. Plug the GRAY connector into your new Seagate hard drive, as shown in the figure at right and below.
- Caution. When plugging in the interface cable, make sure that pin 1 on the cable (indicated by a stripe along the edge) is attached to pin 1 on the drives and on the motherboard.
- f. Attach the 4-pin power connector to the drive (see figure below).



Note: If your computer does not have an unused power cable for your new hard drive, you can purchase a Y-shaped power cable from your computer dealer.



3. Start up your computer

Close your computer case and restart your computer. Your computer may automatically detect your hard drives. If your computer does not automatically detect your new drive, follow the steps below.

- a Restart your computer.
- b. While the computer restarts, run the System Setup program (sometimes called BIOS or CMOS setup). This is usually done by pressing a special key, such as DELETE, ESC, or F1 during the startup process.
- c. Within the System Setup program, instruct the system to autodetect your new drive.
- d. Enable LBA and UDMA modes if given the option.
- e. Save the settings and exit the Setup program. When your computer restarts, it should recognize your new drive. If your system still doesn't recognize your new drive, see the troubleshooting section on the back of this sheet.

4. Partition and format the drive

Before your new drive can store data, it must be partitioned (assigned one or more drive letters) and each partition must be formatted. You can partition and format the drive using DiscWizard or using programs built into Windows. Using DiscWizard is generally easier and faster.

Partitioning and formatting using DiscWizard

- Download DiscWizard for free from the Seagate Web site at <u>www.seagate.com/support</u> or run the program directly from your Web browser.
- 2. Within DiscWizard, choose to "Setup a New Drive."
- DiscWizard asks you a series of questions to determine the best way to set up your new drive. Make sure to indicate that the drive is already installed in your system.
- 4. Select the drive to be partitioned and formatted.
- ① Caution. Partitioning or formatting a drive erases all the data on that drive. Make sure you select the correct drive!
- 5. Follow the on-screen instructions to complete the setup process.

Congratulations. You're done!

If you have problems with your installation, see the troubleshooting information on the back of this sheet.

Partitioning and formatting using Windows utility software

- **(I)** Caution. Partitioning or formatting a drive erases all the data on that drive. Make sure you select the correct drive!
- a. Insert a bootable startup diskette or CD and restart your computer.
- b. If booting from a diskette, type fdisk at the A: prompt. If booting from a CD, the partitioning wizard may start automatically.
- c. Create a primary DOS partition on your new drive.
- d. Create secondary partitions if needed.
- e. If using a diskette, type **format** x: at the A: prompt, where x is the letter of your first new partition. If using a CD, run the formatting program.
- f. Repeat the format process for all new partitions.

Congratulations. You're Done!

If you have problems with your installation, see the troubleshooting information on this page or contact Seagate Support Services.

How to make your new drive the boot drive

If you want to boot your computer from your new Seagate drive, you must copy all the system files from your old boot drive to your new Seagate drive. DiscWizard makes this process quick and easy:

- a. Run DiscWizard (see the first paragraph of this sheet for instructions).
- b. Select "Maintenance" from the main DiscWizard menu.
- c. Select "Copy files" in the maintenance options menu.
- d. Choose the source and destination drives and begin the copy proce-

Note: DiscWizard copies all the files from your old boot drive, including data files, software and hidden system files.

- e. After copying the files, remove both hard drives from your computer.
- f. Change the master/slave jumpers to configure your new Seagate drive as the master and your old drive as the slave.
- g. Reinstall the drives in your computer.
- h. Restart your computer; it will recognize and boot from your new hard drive. Do NOT repartition or format the drives.

What to do if you don't have a working hard drive

Follow the steps below to install your new Seagate hard drive in a system that does not have a working hard drive.

Note: This procedure requires that you have access to the Internet and can boot your computer from a diskette drive. The alternative is to install your drive, boot from your Windows system CD or diskette, and then use the Windows utilities to set up the drive.

- a. Download DiscWizard Starter Edition from the Seagate web site (see the link at www.seagate.com/support).
- b. Run the program to create a bootable DiscWizard diskette.
- c. Follow the instructions on the front of this sheet to install your new hard drive in your computer, but set the new drive as a "master," not as a "slave," and place it on the connector at the end of the ATA cable.
- d. Insert the DiscWizard diskette in the diskette drive.
- e. Restart your computer. It will boot from the DiscWizard CD and DiscWizard Starter Edition will start up automatically.
- f. From the DiscWizard Starter Edition main menu, select "Setup Your Hard Disc." Follow the online instructions.
- g. When DiscWizard is done, it prompts you to install your operating system on the new hard drive. See your operating-system manual for further instructions.

Troubleshooting

If your drive is not working properly, follow these troubleshooting steps. If these steps do not solve the problem, contact your dealer or visit http://seatools.seagate.com to download SeaTools disc diagnostics software and obtain more information.

1. Does the drive spin up? If you cannot hear a faint whine and clicking noise when power is applied to the drive, make sure that the power connector and interface cable are securely attached and the jumpers are installed correctly.

- 2. Does the computer recognize the drive? Make sure the master/ slave jumpers are set correctly on both hard drives. Verify that the drive is detected by the system CMOS or Setup program.
- 3. Does Scandisk find any defects? Run Scandisk from the command prompt. If defects are found, the drive may be damaged.
- 4. Does the drive format to full capacity? Verify that your BIOS has autodetect and LBA mode enabled. On some older computers, you may need to run DiscWizard to use the full capacity of your drive.
- 5. The computer hangs on startup. Verify that your system is ATA/100compatible, with a UDMA mode setting. If your computer has a processor speed of less than 400 MHz, your system may not be able to support the highest data transfer rates used in Ultra ATA/100, and could experience intermittent system hangs or poor drive performance, especially when transferring large files. To prevent this, you can purchase an Ultra ATA/100 host adapter card or run the utility program UATA100.EXE, available on the seagate web site (see http://www.seagate.com/support/kb/disc/ultra_ata100.html).

Seagate support services

For online information about Seagate products, visit www.seagate.com or e-mail your disc questions to: discsupport@seagate.com. If you need further help installing your drive, first consult your dealer. Dealers are familiar with their unique system configurations and can help you with system conflicts and other technical issues. If you need additional help, you can talk to a Seagate technical support specialist. Before calling, note your system configuration and drive model number.

Africa	+31-20-316-7222	Netherlands	0 800-732 4283
Australia	1800-14-7201	New Zealand	0800-443988
Austria	0 800-20 12 90	Norway	800-113 91
Belgium	0 800-74 876	Poland	00 800-311 12 38
Brazil	+55-21-2509-7267	Singapore	800-1101-150
Denmark	80 88 12 66	Spain	900-98 31 24
France	0 800-90 90 52	Sweden	0 207 90 073
Germany	0 800-182 6831	Switzerland	0 800-83 84 11
Hong Kong	800-90-0474	Taiwan	+886-2-2514-2237
India	1-600-33-1104	Thailand	001-800-11-0032165
Indonesia	001-803-1-003-2165	Turkey	00 800-31 92 91 40
Ireland	1 800-55 21 22	United Kingdom	0 800-783 5177
Italy	800-790695	USA/Canada/	1-800-SEAGATE or
Malaysia	1-800-80-2335	Latin America	+1-405-936-1234
Middle East	+31-20-316-7222	Other Europe	+ 31-20-316-7222

Warranty To determine the warranty status of your Seagate disc drive, contact your place of purchase or visit our Web site at www.seagate.com for more information. RMA (Return Merchandise Authorization) Run SeaTools to diagnose your drive before requesting a return authorization. In addition, please verify that your drive is defective by following the troubleshooting checklist in this guide. Seagate offers comprehensive customer support for all Seagate drives worldwide. Seagate customer service centers are the only facilities authorized to service Seagate drives. Drive-return procedures vary depending on geographical location and are subject to current International Trade Regulations.

Shipping your drive

Back up the data on your drive before shipping it. Keep your original box and packing materials for storing or shipping your drive. To preserve the warranty status of your drive, any product returned to Seagate must be properly packaged in the original box or a Seagate-approved container to prevent physical and electrical damage while in transit. Do not use peanuts, bubble wrap or newspapers.

Electromagnetic compliance for the European Union This model complies with the European Union requirements of the Electromagnetic Compatibility Directive 89/336/EEC of 03 May 1989 as amended by Directive 92/31/EEC of 28 April 1992 and Directive 93/68/EEC of 22 July 1993. Compliance of this drive, as a system component, was confirmed with a test system. We cannot guarantee that your system will comply. The drive is not meant for external use (without properly designed enclosure, shielded I/O cable,

Sicherheitsanleitung 1. Das Gerrät ist ein Einbaugerät, das für eine maximale Umgebungstemperatur von 55°C vorgesehen ist. 2. Zur Befestigung des Laufwerks werden 4 Schrauben 6-32 UNC-2A benötigt. Bei seitlicher Befestigung darf die maximale Länge der Schrauben im Chassis nicht mehr als 3,3 mm und bei Befestigung an der Unterseite nicht mehr als 5,08 mm betragen. 3. Als Versorgungsspannugen werden bei Befestigung an der Unterseite nicht mehr als 5,08 mm betragen. 3. Als Versorgungsspannugen werden bestättigt. benötigt: +5V ± 5% 0,6A; +12V ±% 0,8A (1,9A fur ca. 30 Sek. fur ± 10%) 4. Die Versorgungsspannung muss SELV entsprechen. 5. Alle Arbeiten auf dem Festplatte dürfen nur von Ausgebildetem Servicepersonal durchgeführt werden. Bitte entfernen Sie nicht die Aufschriftenschilder des Laufwerkes. 6. Der Einbau des Laufwerkes muss den Anforderungen gemäss DIN IEC 950 VDE 0805/05.90

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