

Seagate warrants that your Seagate disc drive will be free from defects in material and workmanship and will perform to Seagate's applicable specifications for Seagate's three-year warranty period. The warranty period will be calculated from the date of original purchase. Seagate will replace, at no charge, any drive that does not meet our warranty. The drive must be returned in the packaging provided by Seagate with transportation charges prepaid to the authorized Seagate destination. This warranty is void if defect has resulted from accident, abuse, unauthorized repair or misapplication. WITH REGARD TO THE EZ-DRIVE SOFTWARE, THERE ARE NO WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALL SUCH WARRANTIES ARE EXPRESSLY AND SPECIFICALLY DISCLAIMED. **DISCLAIMER:** EXCEPT FOR THE ABOVE EXPRESS LIMITED WARRANTIES OR CONDITIONS, SEAGATE MAKES NO WARRANTIES ON THE PRODUCTS, EXPRESS, IMPLIED, OR STATUTORY AND SEAGATE SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This limited warranty gives you specific legal rights. You may have others, which vary from state to state. IN NO EVENT WILL SEAGATE'S LIABILITY OF ANY KIND INCLUDE ANY LOST PROFITS, LOSS OF USE, LOSS OF DATA, OR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF SEAGATE HAS KNOWLEDGE OF THE POSSIBILITY OF THE POTENTIAL LOSS OF USE, LOSS OF DATA, OR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. Some states do not allow for the exclusion or limitation of liability for consequential or incidental damages, as such, the above limitations may not apply to you. **Documentation:** Seagate Technology makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Seagate Technology shall not be liable for errors contained herein or for incidental consequential damages in connection with the furnishing, performance, or use of this material. Seagate reserves the right to change, without notice, product offerings or specifications. Seagate Technology, Inc. and the Seagate logo are registered trademarks of Seagate Technology, Inc. Other product names are registered trademarks or trademarks of their owners.

**LIMITED WARRANTY STATEMENT**

**Technical support services**

Please read this installation guide before you install your new drive. If you are not familiar with the procedures outlined here, have a qualified computer technician perform the drive installation. If you need assistance installing this drive, first consult your dealer, who can help you with system conflicts and other technical issues. If you need additional assistance, use one of the services listed below, or call the Seagate support line at 1-800-426-6637.

**SeaBOARD:** Use a modem to contact the Seagate computer bulletin board, which supports communications up to 9,600 baud (8-N-1). SeaBOARD is available 24 hours daily.

|           |                |          |                     |
|-----------|----------------|----------|---------------------|
| USA       | 408-438-8771   | France   | (+33 1) 48 25 35 95 |
| Germany   | 49-89-140-9331 | England  | 44-1-62-847-8011    |
| Singapore | 65-292-6973    | Thailand | 662-531-8111        |
| Australia | 61-2-756-2359  | Korea    | 82-2-556-7294       |

**SeaFAX:** Use a touch-tone telephone to access Seagate's automated FAX system to receive technical information by return FAX. This service is available 24 hours daily.

USA 408-438-2620 England 44-1-62-847-7080

**SeaTDD:** Use a telecommunications device for the deaf (TDD) to exchange messages with a technical support specialist. 408/438-5382

**Internet Connections:** <http://www.seagate.com>  
<ftp://ftp.seagate.com>

**Compuserve Forum:** Type GO SEAGATE

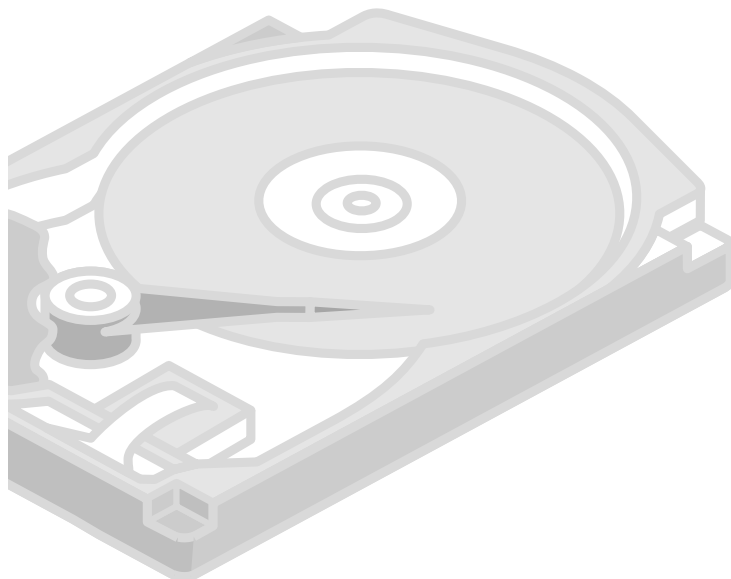
**IMPORTANT PRECAUTIONS**

- Always handle the disc drive carefully, holding its edges or frame. Do not touch the connectors or any part of the printed circuit board.
- Keep the drive in its antistatic bag until you are ready to install it.
- Set the drive down only on a flat, padded, non-static surface.
- This drive is susceptible to damage from electrostatic discharge. Before handling the drive, ground yourself by touching the grounded chassis of your computer. For optimum protection, wear a grounded antistatic wrist strap.
- Make sure your computer is turned off before opening the case. Do not unplug your computer if you will be using it for antistatic grounding.
- Do not remove the drive cover. The drive contains no user-serviceable components.
- Save your Seagate packing materials for future use. Using any other container or packing material voids your drive warranty and may damage your drive.

**Seagate**  
**QUICK INSTALLATION GUIDE**

**ST32161A**

**ATA/IDE Hard Drive**



## INSTALLATION PROCEDURE

1. Turn off the computer and all attached peripheral equipment, such as printers and monitors.
2. Remove the screws attaching the computer's cover, and remove the cover from the system.
3. Remove the drive from the ESD (electrostatic discharge) shielded bag, and carefully place it on a padded work surface.
4. Configure the drive jumpers as necessary. Refer to the jumper settings section below for details.
5. Connect the cables; align the colored striped edge of the interface cable to pin 1 of the drive ATA interface connector.
6. Partially insert the drive into the drive bay. Select an unused power connector from the power supply and connect it to the drive. If there are no unused power connections on the power supply, you can purchase a "Y" cable adapter from your dealer. This connector will allow you to add another power connection for your new drive.
7. After you have set the jumpers and attached interface and power cables to the drive, secure the drive in the computer with four 6-32x.25 screws.

**CAUTION:** Do not use screws of excess length when attaching the drive. Damage to the drive's circuit board could result. The maximum insertion in bottom holes is 0.25", the maximum insertion for side holes is 0.125".

8. All Seagate ATA disc drives are low-level formatted at the factory. It is only necessary to run your system's CMOS Setup program, then partition and high-level format the drive.

## 9. CMOS (BIOS) Setup:

If your system CMOS has LBA support (check your system owner's manual), go to step 9a. If your computer or drive host adapter supports drives larger than 528 Mbytes (check your system manual), go to step 9b. If the system BIOS and the adaptor do not support large drives, go to step 9c.

- a. Run your BIOS or System setup program and enable LBA drive addressing. Save this change and reboot the computer. The drive is now ready for partitioning and high-level formatting. Proceed to step 10 for DOS formatting.
- b. Run your BIOS or System setup program and enable the translation feature. Check the adaptor manual for specific instructions on setting the system BIOS for large drives. Save your changes and reboot the computer. The drive is now ready for partitioning and high level formatting. Proceed to step 10 for DOS formatting.
- c. If the system BIOS and or the adaptor BIOS do not support large drives, you will need to use EZ-Drive®. Insert the EZ-Drive diskette into the A: drive and type **EZ <ENTER>**. Follow the screen prompts to configure the drive. On-line help is available on the EZ-Drive drive diskette. After the installation is complete, read the help sections on booting from a floppy diskette and creating a rescue diskette. When EZ-Drive has finished, the drive is ready to use. If you plan to use the drive to boot your computer, install your operating system. Refer to your operating system manual for detailed instructions.

10. If you did not use EZ-Drive to install the drive, use the DOS FDISK command (version 4.01 or higher) to partition the drive. Use the DOS FORMAT command to high level format the drive. See your DOS manual for detailed instructions). After formatting, the new drive is ready to use.

## JUMPER SETTINGS

### Master/Slave (C/D) Jumpers

- Single-drive system or master (C:) drive in a dual drive system: Install jumper on pins 1 and 2 (default).
- Slave (D:) drive in a dual-drive system: Remove jumper from pins 1 and 2

### Capacity (A/C) Jumpers

As shipped from the factory, the ST32161A is set for 4,095 cylinders or 2.113 Gbytes. Some system BIOS' cannot support drives having more than 4,095 cylinders. If this limit is exceeded, the system may lock up or fail to boot. Consult your system manual or the BIOS manufacturer for cylinder limitations. If your system BIOS allows for more than 4,095 cylinders, you may remove the jumper from pins 3 and 4 to obtain a drive capacity of 2.147 Gbytes. The two configurations are summarized in the table below.

| A/C Jumper           | Heads | Cyl. | Sectors | Capacity*    |
|----------------------|-------|------|---------|--------------|
| Installed (default): | 16    | 4095 | 63      | 2,113 Mbytes |
| Removed:             | 16    | 4160 | 63      | 2,147 Mbytes |

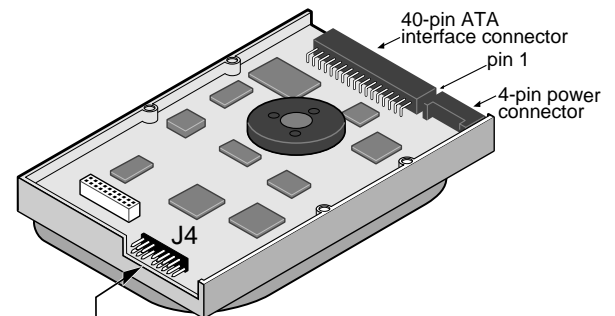
\*1 Mbyte = 1,000,000 Bytes

### Cable Select (CS) Jumpers

(Refer to your system manual for use of this function)

- Disabled (default): Remove jumper pins 5 and 6 (CS)  
 Enabled: Jumper pins 5 and 6

**Note:** Pins 7-18 are reserved and should not be used



| Pin Configuration   | Setting |   |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |   |   |   |   |   |   |   |   |                |
|---|---------|---|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|----|----|----|----|---|---|---|---|---|---|---|---|----------------|
| <table border="1"> <tr><td>2</td><td>4</td><td>6</td><td>10</td><td>12</td><td>14</td><td>16</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> <tr><td>1</td><td>3</td><td>5</td><td>9</td><td>11</td><td>13</td><td>15</td><td>17</td></tr> <tr><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></tr> </table> | 2       | 4 | 6  | 10 | 12 | 14 | 16 | • | • | • | • | • | • | • | 1 | 3 | 5   | 9 | 11 | 13 | 15 | 17 | • | • | • | • | • | • | • | • | Drive is slave |
| 2   | 4       | 6 | 10 | 12 | 14 | 16 |    |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |   |   |   |   |   |   |   |   |                |
| •   | •       | • | •  | •  | •  | •  |    |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |   |   |   |   |   |   |   |   |                |
| 1   | 3       | 5 | 9  | 11 | 13 | 15 | 17 |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |   |   |   |   |   |   |   |   |                |
| •   | •       | • | •  | •  | •  | •  | •  |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |   |   |   |   |   |   |   |   |                |
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| •   | •       | • | •  | •  | •  | •  | •  |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |   |   |   |   |   |   |   |   |                |
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| •   | •       | • | •  | •  | •  | •  | •  |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |   |   |   |   |   |   |   |   |                |
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| •   | •       | • | •  | •  | •  | •  | •  |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |   |   |   |   |   |   |   |   |                |
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