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HEWLETT PACKARD 465643-001

Hewlett-Packard 160GB SATA/300 Hard Drive User Manual

Model: 465643-001



INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Hewlett-Packard 160GB 7200RPM SATA/300 Hard Drive, model 465643-001. Please read this manual thoroughly before proceeding with installation to ensure proper functionality and to prevent damage.

SAFETY PRECAUTIONS

Always observe the following safety guidelines:

- Ensure your computer is powered off and unplugged from the wall outlet before installing or removing the hard drive.
- Discharge any static electricity from your body by touching a grounded metal object before handling the hard drive.
- Handle the hard drive by its edges to avoid touching the circuit board or connectors.
- Avoid dropping or subjecting the hard drive to physical shock, as this can cause permanent damage.
- Do not open the hard drive enclosure. There are no user-serviceable parts inside.



Figure 1: Hewlett-Packard 160GB SATA/300 Hard Drive. The label indicates voltage requirements (+5V 0.75A, +12V 0.75A) and a caution regarding warranty voidance if the seal is removed or if the drive experiences shock in excess of 350 Gs.

SETUP AND INSTALLATION

This hard drive is designed for internal installation in desktop computers.

Required Tools:

- Phillips head screwdriver
- SATA data cable (if not already present in your system)
- SATA power cable (from your power supply)

Installation Steps:

- 1. Prepare your computer:** Power off your computer and unplug it from the power outlet. Open the computer case.
- 2. Locate an available drive bay:** Identify an empty 3.5-inch drive bay in your computer case.
- 3. Mount the hard drive:** Slide the hard drive into the drive bay. Secure it with screws on both sides of the drive bay, ensuring it is firmly in place.
- 4. Connect data cable:** Connect one end of the SATA data cable to the SATA port on the hard drive and the other end to an available SATA port on your motherboard.
- 5. Connect power cable:** Connect a SATA power cable from your power supply unit to the power connector on the hard drive.
- 6. Close the computer case:** Once all connections are secure, close your computer case and reconnect all peripherals.
- 7. Power on and initialize:** Power on your computer. The operating system may detect the new drive automatically. You may need to initialize and format the drive through Disk Management (Windows) or Disk Utility (macOS) before it can be used.

OPERATING THE HARD DRIVE

Once installed and formatted, the Hewlett-Packard 160GB SATA/300 Hard Drive operates as a standard storage device within your computer system. It can be used for:

- Operating system installation
- Data storage (documents, media, applications)
- Backup drive

Performance is optimized for 7200 RPM operation and SATA/300 (SATA II) interface, providing a theoretical maximum transfer rate of 300 MB/s.

MAINTENANCE

Hard drives are sensitive components and require minimal direct maintenance. However, regular system maintenance practices contribute to the longevity and performance of your drive:

- **Data Backup:** Regularly back up important data to an external drive or cloud storage to prevent data loss in case of drive failure.
- **Disk Defragmentation (for HDDs):** For optimal performance on traditional hard drives, periodically run disk defragmentation tools provided by your operating system. (Note: This is not necessary for Solid State Drives).
- **Disk Cleanup:** Use operating system tools to remove temporary files and unnecessary data to free up space.
- **System Cooling:** Ensure adequate airflow within your computer case to prevent overheating, which can degrade drive performance and lifespan.
- **Firmware Updates:** Check the Hewlett-Packard support website for any available firmware updates for your specific model. Follow instructions carefully if an update is available.

TROUBLESHOOTING

If you encounter issues with your hard drive, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Drive not detected by BIOS/OS	Loose cables, incorrect BIOS settings, faulty drive	Check SATA data and power cable connections. Verify SATA port is enabled in BIOS. Try a different SATA port or cable. Test the drive in another computer if possible.
Drive detected but not accessible (unformatted)	New drive, not initialized or formatted	Initialize and format the drive using Disk Management (Windows) or Disk Utility (macOS).
Slow performance	Fragmented data, full drive, overheating	Run disk defragmentation. Free up disk space. Ensure proper case ventilation.
Clicking or grinding noises	Mechanical failure	Immediately back up any accessible data. Contact Hewlett-Packard support for potential replacement.

SPECIFICATIONS

Feature	Detail
Model Number	465643-001
Brand	Hewlett-Packard
Storage Capacity	160 GB
Form Factor	3.5-inch (Internal Hard Drive)
Interface	SATA/300 (SATA II)
Rotational Speed	7200 RPM
Type	Mechanical Hard Disk
Compatible Devices	Desktop Computers
Date First Available	July 10, 2013

WARRANTY INFORMATION

Product warranty information is typically provided at the point of purchase or with the original product packaging. As per the product label, the warranty may be void if any seal or label is removed, or if the drive experiences shock in excess of 350 Gs. For specific warranty terms and conditions, please refer to your purchase documentation or contact Hewlett-Packard customer support directly.

SUPPORT AND CONTACT

For technical support, driver downloads, or further assistance with your Hewlett-Packard hard drive, please visit the official Hewlett-Packard support website or contact their customer service department.

Note: As this is an internal component, support is often provided through the system builder or reseller if purchased as part of a pre-built system.

Hewlett-Packard Official Website: www.hp.com/support

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Related Documents - 465643-001

	<p><u>Hewlett-Packard 8350A Sweep Oscillator Operating and Service Manual</u></p> <p>Comprehensive operating and service manual for the Hewlett-Packard (HP) Model 8350A Sweep Oscillator, detailing installation, operation, testing, adjustments, and repair. Includes specifications, safety, and HP-IB control information.</p>
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