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- › [Western Digital](#) /
- › [Western Digital RE4 WD2003FYYS 2TB Enterprise Hard Drive User Manual](#)

Western Digital WD2003FYYS

Western Digital RE4 WD2003FYYS 2TB Enterprise Hard Drive User Manual

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Western Digital RE4 WD2003FYYS 2TB Enterprise Hard Drive. This drive is designed for demanding data center environments, offering high performance and reliability.

The WD RE4 series features a 64 MB cache, dual processors, and advanced power management technology, contributing to improved performance and energy efficiency. It also incorporates enhanced rotary vibration tolerance for stable operation under various conditions.

SAFETY INFORMATION

- Always handle the hard drive by its edges to avoid touching the circuit board or connectors.
- Ensure proper grounding to prevent electrostatic discharge (ESD) damage.
- Disconnect power from your system before installing or removing the hard drive.
- Do not expose the drive to extreme temperatures, humidity, or strong magnetic fields.

PACKAGE CONTENTS

Your package should contain the following:

- Western Digital RE4 WD2003FYYS 2TB Enterprise Hard Drive
- Renewed 3-Year Warranty information

Note: Mounting screws, SATA data cables, and SATA power cables are typically not included and must be purchased separately.

SETUP

1. Physical Installation

1. **Prepare your system:** Power off your computer or server and disconnect the power cord. Open the computer case to access the drive bays.
2. **Mount the drive:** Slide the hard drive into an available 3.5-inch drive bay. Secure it with appropriate screws on both sides to prevent vibration.

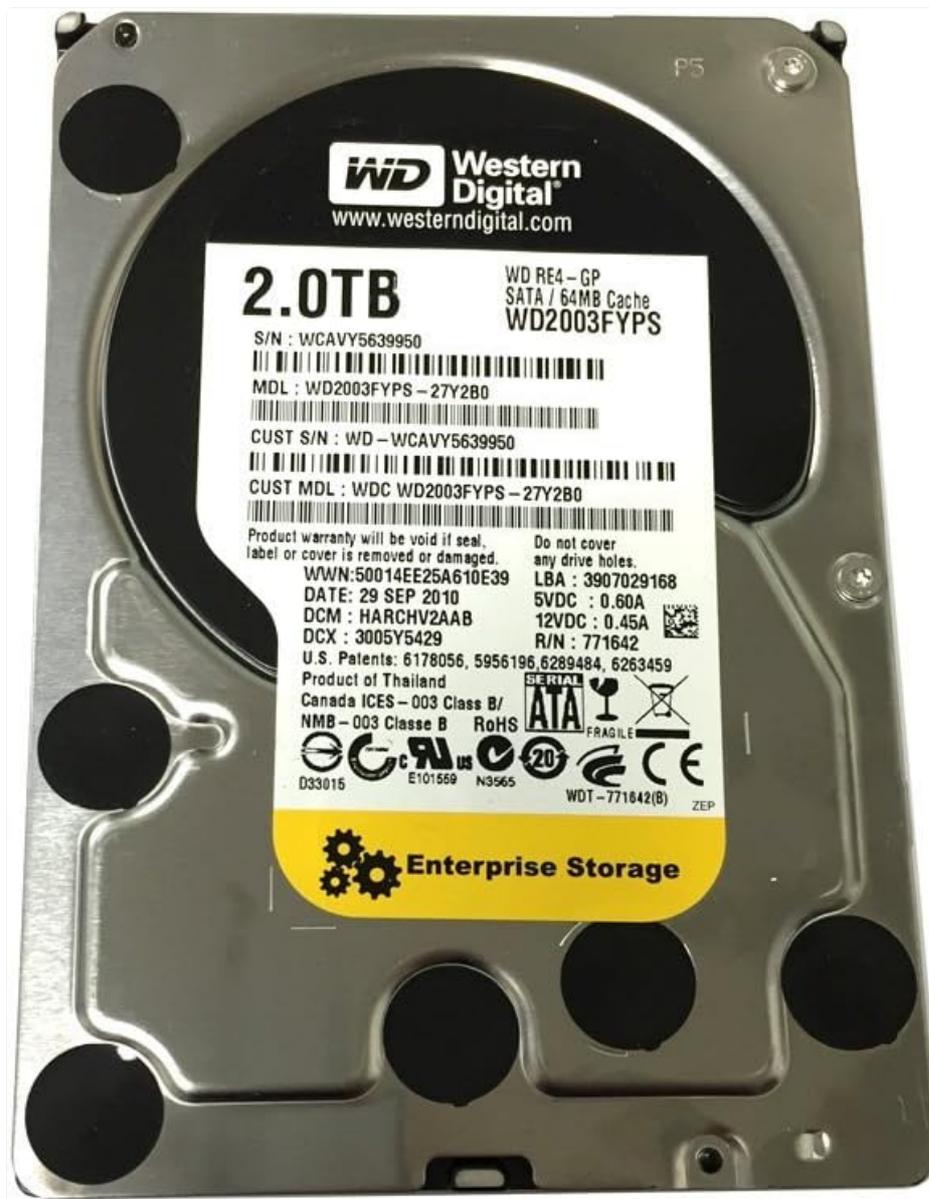


Figure 1: Top view of the Western Digital RE4 WD2003FYYS 2TB Enterprise Hard Drive. This image displays the drive's label, which includes the model number (WD2003FYYS), capacity (2.0TB), and other technical specifications.

3. Connect cables:

- Connect one end of a SATA data cable to the data port on the hard drive and the other end to an available SATA port on your motherboard or RAID controller.
- Connect a SATA power cable from your power supply unit (PSU) to the power connector on the hard drive.



Figure 2: Side view of the Western Digital RE4 WD2003FYYS 2TB Enterprise Hard Drive. This image highlights the standard SATA data and power connectors, essential for connecting the drive to a system.

4. **Close system and power on:** Replace the computer case cover and reconnect the power cord. Power on your system.

2. Initializing and Formatting the Drive

After physical installation, the operating system needs to recognize and prepare the drive for use.

1. Access Disk Management (Windows):

- Right-click on the Start button and select "Disk Management".
- The new drive should appear as "Unallocated" or "Not Initialized".

2. **Initialize the drive:** Right-click on the new drive and select "Initialize Disk". Choose MBR (Master Boot Record) for drives up to 2TB or GPT (GUID Partition Table) for drives larger than 2TB (though this drive is 2TB, GPT is often preferred for modern systems).

3. **Create a new simple volume:** Right-click on the "Unallocated" space, select "New Simple Volume", and follow the wizard to assign a drive letter, file system (e.g., NTFS), and volume label.

4. **For Linux/macOS:** Use appropriate disk utility tools (e.g., `fdisk`, `gparted` on Linux; Disk Utility on macOS) to partition and format the drive.

OPERATING THE HARD DRIVE

Once installed and formatted, your Western Digital RE4 WD2003FYYS drive functions like any other internal storage device.

- **Data Storage:** Use the drive to store files, applications, and operating system data. Its 2TB capacity provides ample space for large datasets.
- **Performance:** The drive's 7200 RPM rotational speed and 64MB cache are designed for high-performance applications, making it suitable for servers, workstations, and demanding storage tasks.
- **Enterprise Reliability:** Engineered for 24x7 operation, this drive is built to withstand continuous use in enterprise environments.

MAINTENANCE

Regular maintenance helps ensure the longevity and reliability of your hard drive.

- **Data Backup:** Regularly back up critical data to another storage device or cloud service. Hard drives can fail, and backups are essential for data recovery.
- **Monitor Drive Health:** Utilize S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) tools to monitor the drive's health status. Many operating systems and third-party utilities offer this functionality. Early detection of potential issues can prevent data loss.
- **Environmental Control:** Ensure your system's environment is well-ventilated and maintains a stable temperature. Excessive heat can reduce drive lifespan.
- **Firmware Updates:** Periodically check the Western Digital support website for any available firmware updates for your specific model. Firmware updates can improve performance, stability, and compatibility.

TROUBLESHOOTING

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

Drive Not Detected

- **Check Cables:** Ensure both the SATA data cable and SATA power cable are securely connected to the drive and the motherboard/PSU. Try different cables if available.
- **BIOS/UEFI Settings:** Verify that the SATA port to which the drive is connected is enabled in your system's BIOS/UEFI settings.
- **Power Supply:** Confirm your power supply unit (PSU) has sufficient wattage and available connectors for the drive.
- **Disk Management (Windows):** Check Disk Management to see if the drive appears as "Not Initialized" or "Unallocated". If so, initialize and format it as described in the Setup section.

Slow Performance

- **Cable Integrity:** A faulty SATA data cable can degrade performance. Try replacing it.
- **Drive Fragmentation:** For traditional hard drives, fragmentation can slow down access times. Use disk defragmentation tools (Windows) or ensure proper file system management (Linux/macOS).
- **S.M.A.R.T. Status:** Check the drive's S.M.A.R.T. status. Warnings or errors can indicate impending drive failure.
- **System Resources:** Ensure your system has adequate RAM and CPU resources, as these can impact overall storage performance.

Unusual Noises

- **Clicking or Grinding:** These sounds often indicate a mechanical failure. Immediately back up any accessible data and consider replacing the drive.
- **Vibration:** Ensure the drive is securely mounted in its bay. Loose mounting can cause excessive vibration and noise.

SPECIFICATIONS

Feature	Detail
Model Number	WD2003FYYS
Capacity	2 TB (2000 GB)
Interface	SATA 3.0Gb/s (SATA II)
Form Factor	3.5-inch
Rotational Speed	7200 RPM
Cache	64 MB
Dimensions (LxWxH)	5.8 x 4 x 1 inches
Weight	1.94 pounds
Reliability (MTBF)	1.2 million hours
Hardware Platform	Mac, PC



Figure 3: Bottom view of the Western Digital RE4 WD2003FYYS 2TB Enterprise Hard Drive. This image displays the exposed circuit board, which contains the drive's controller and other electronic components.

WARRANTY INFORMATION

This Western Digital RE4 WD2003FYYS hard drive comes with a **3-Year Renewed Warranty**. This warranty covers defects in materials and workmanship under normal use during the warranty period.

For specific terms, conditions, and to initiate a warranty claim, please refer to the warranty documentation provided with your renewed product or contact the seller directly.

Note: Data recovery services are typically not covered under standard product warranties. It is highly recommended to maintain regular data backups.

SUPPORT

For further assistance, technical support, or warranty inquiries, please refer to the following resources:

- **Seller Support:** Contact the seller from whom you purchased this renewed product for direct support and warranty claims.
- **Western Digital Website:** Visit the official Western Digital support website for general product information, drivers, and firmware updates. (www.westerndigital.com/support)



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