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Middle Atlantic HW500

Middle Atlantic HW500 #10-32 x 3/4" Rack Screws Instruction Manual

Model: HW500

1. PRODUCT OVERVIEW

The Middle Atlantic HW500 rack screws are designed for securely mounting equipment into standard rack enclosures. This package contains 500 heat-treated, #10-32 threaded screws, each 3/4 inch long, featuring a Phillips trim-head and factory-installed captive-cup nylon washers. The black oxide finish provides durability and a professional appearance.



Figure 1: Middle Atlantic HW500 rack screws, 500 pieces, in a reusable jar with a white lid. The label on the jar indicates "HW500 500PC 10-32 SCREW W/CAPT. WASH" and a date of 04/27/2015. Individual screws are shown at the bottom.

Key Features:

- **Length:** 3/4 inch
- **Thread:** #10-32
- **Head Style:** Phillips Trim-head
- **Washer:** Factory-installed captive-cup nylon washers
- **Durability:** Heat-treated for resistance to stripping
- **Finish:** Black Oxide
- **Quantity:** 500 pieces per reusable jar

2. SETUP AND INSTALLATION

These rack screws are designed for use with standard 19-inch equipment racks that feature #10-32 threaded mounting holes.

Installation Steps:

1. **Identify Mounting Points:** Locate the threaded mounting holes on your equipment rack where the device will be installed.
2. **Align Equipment:** Position your rack-mountable equipment against the rack rails, aligning its mounting holes with the threaded holes on the rack.
3. **Insert Screws:** Insert a Middle Atlantic HW500 rack screw through the equipment's mounting hole and into the corresponding threaded hole on the rack rail. The captive-cup nylon washer should be positioned between the screw head and the equipment's mounting flange.
4. **Tighten Screws:** Using a Phillips head screwdriver, carefully tighten each screw. Tighten until the equipment is secure and there is no movement. Avoid over-tightening, which can strip the threads or damage the equipment or rack.
5. **Verify Security:** Gently attempt to move the installed equipment to ensure it is firmly secured to the rack.



Figure 2: A close-up view of a large pile of Middle Atlantic HW500 black oxide rack screws, showing their Phillips trim-heads and integrated washers.

3. OPERATING (USAGE GUIDELINES)

While rack screws do not have "operation" in the traditional sense, proper usage ensures the longevity and stability of your rack-mounted equipment.

- Always use the correct size and thread type of screw for your rack and equipment. The HW500 screws are #10-32 threaded.
- Ensure the captive-cup nylon washer is properly seated to prevent scratching equipment finishes and to provide a secure, vibration-resistant connection.
- Do not use power tools for tightening unless specifically designed for delicate fastening and set to a very low torque. Manual tightening with a Phillips head screwdriver is recommended.
- When removing equipment, loosen all screws evenly before detaching the device.

4. MAINTENANCE

Middle Atlantic HW500 rack screws require minimal maintenance.

- **Storage:** Store unused screws in their original reusable jar in a dry environment to prevent corrosion and keep them organized.

- **Inspection:** Before reuse, inspect screws for any signs of damage, such as stripped threads or deformed heads. Discard any damaged screws.
- **Cleaning:** If necessary, clean screws with a dry cloth. Avoid abrasive cleaners or solvents.

5. TROUBLESHOOTING

- **Screw does not fit:**
Ensure your rack has #10-32 threaded holes. These screws are not compatible with unthreaded square holes (which require cage nuts) or different thread sizes (e.g., #12-24). Verify the equipment's mounting holes are also compatible.
- **Screw head strips easily:**
This can occur from using an incorrect size Phillips head screwdriver, excessive torque, or a worn screwdriver bit. Always use the correct size Phillips head screwdriver and apply firm, even pressure while turning. Avoid over-tightening.
- **Equipment feels loose after tightening:**
Ensure all screws are properly engaged and tightened. Check if the captive-cup nylon washers are correctly seated. If the rack's threads are damaged, consider using a different mounting hole or repairing the thread if possible.

6. SPECIFICATIONS

Feature	Detail
Brand	Middle Atlantic
Model Number	HW500
Thread Size	#10-32
Length	3/4 inch
Head Style	Phillips Trim-head
Washer Type	Captive-cup Nylon Washer (factory-installed)
Material	Alloy Steel / Carbon Steel
Finish	Black Oxide
Heat Treatment	Yes, for durability and stripping resistance
Quantity	500 pieces per jar
Item Weight	3.9 pounds (total package)
UPC	656747008733

7. WARRANTY AND SUPPORT

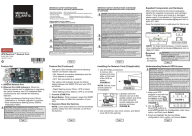

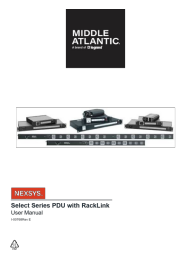

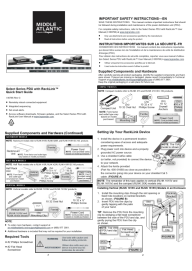

For specific warranty information or technical support regarding Middle Atlantic products, please refer to the official Middle Atlantic website or contact their customer service department.

Manufacturer: Middle Atlantic Products

Website: www.middleatlantic.com



Related Documents - HW500

	<p>Middle Atlantic NEXSYS UPS RackLink Network Card Quick Start Guide</p> <p>Quick start guide for the Middle Atlantic NEXSYS UPS RackLink Network Card (Model 100-00073 RevA), detailing installation, feature set, network access, and configuration for UPS systems.</p>
	<p>Middle Atlantic NEXSYS UPS Communication Protocol User Manual</p> <p>This user manual details the communication protocol for Middle Atlantic NEXSYS UPS systems, covering TCP/IP and SSH interfaces, command structures, control commands, and status read commands for remote management and monitoring.</p>
	<p>Middle Atlantic Select Series PDU with RackLink User Manual</p> <p>Comprehensive user manual for the Middle Atlantic Select Series PDU with RackLink, detailing installation, configuration, and operation. Includes safety instructions, feature sets for various models, and troubleshooting.</p>
	<p>Middle Atlantic NEXSYS Series Rackmount PDU User Manual (Model 100-00060)</p> <p>Comprehensive user manual for the Middle Atlantic NEXSYS Series Rackmount PDU, covering installation, features, specifications, and warranty for models PDX-915R, PDX-920R, PDX-915R-SP, and PDX-920R-SP.</p>
	<p>Middle Atlantic Select Series PDU with RackLink Quick Start Guide</p> <p>A concise guide to installing and setting up the Middle Atlantic Select Series PDU with RackLink, covering features, components, network configuration, and troubleshooting.</p>
	<p>The Brandywine Festival 2025 Costume Guide</p> <p>A comprehensive guide for participants attending The Brandywine Festival 2025, offering detailed instructions, inspiration, and requirements for creating authentic Hobbit costumes. Covers garments, fabrics, accessories, and adherence to the Middle-earth aesthetic.</p>