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› [Middle Atlantic HW500 #10-32 x 3/4" Rack Screws Instruction Manual](#)

## Middle Atlantic HW500

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

Model: HW500

## 1. PRODUCT OVERVIEW

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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

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- **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

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

## 7. WARRANTY AND SUPPORT

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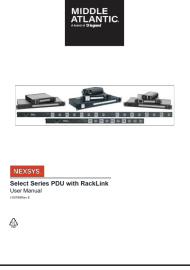
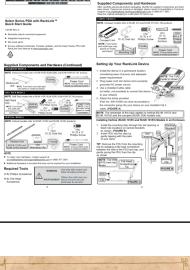
For specific warranty information or technical support regarding Middle Atlantic products, please refer to the official Middle Atlantic website or contact their customer service department.

**Manufacturer:** Middle Atlantic Products

**Website:** [www.middleatlantic.com](http://www.middleatlantic.com)



## Related Documents - HW500

	<p><a href="#">Middle Atlantic NEXSYS UPS RackLink Network Card Quick Start Guide</a></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><a href="#">Middle Atlantic NEXSYS UPS Communication Protocol User Manual</a></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><a href="#">Middle Atlantic Select Series PDU with RackLink User Manual</a></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><a href="#">Middle Atlantic NEXSYS Series Rackmount PDU User Manual (Model 100-00060)</a></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><a href="#">Middle Atlantic Select Series PDU with RackLink Quick Start Guide</a></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><a href="#">The Brandywine Festival 2025 Costume Guide</a></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>