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> [MOLLIFII WHM-500-A Internal Retaining Ring User Manual](#)

MOLLIFII WHM-500-A

MOLLIFII WHM-500-A Internal Retaining Ring User Manual

Model: WHM-500-A | Brand: MOLLIFII

1. INTRODUCTION

This manual provides essential instructions for the proper setup, installation, maintenance, and troubleshooting of your MOLLIFII WHM-500-A Internal Retaining Ring. Please read this manual thoroughly before use to ensure safe and effective application. This retaining ring is designed for internal applications within a bore, providing axial retention of components.

2. PRODUCT OVERVIEW



Figure 1: MOLLIFII WHM-500-A Internal Retaining Ring. This image displays the MOLLIFII WHM-500-A internal retaining ring. It is a circular, flat steel ring with an oil finish, designed to fit into a bore. One end of the ring is slightly offset to allow for installation and removal.

The WHM-500-A is an internal spiral retaining ring manufactured from steel with an oil finish. It is designed for a 5-inch bore diameter and adheres to ANSI material quality standards. Key features include:

- **Material:** Steel
- **Finish:** Oil
- **Thickness:** 0.111 inches
- **System of Measurement:** Inch
- **For Bore Diameter:** 5 inches

3. SETUP

Before installing the retaining ring, ensure you have the necessary tools and that the bore is clean and free of debris.

3.1 Required Tools

- Retaining ring pliers (appropriate size for 5-inch bore rings)
- Safety glasses
- Clean cloth

3.2 Preparation

1. Inspect the retaining ring for any damage or deformities. Do not use damaged rings.
2. Ensure the bore and groove where the ring will be seated are clean and dry. Remove any oil, grease, or

foreign particles.

3. Verify that the bore diameter matches the retaining ring's specifications (5 inches).

4. OPERATING INSTRUCTIONS (INSTALLATION)

Follow these steps for safe and correct installation of the internal retaining ring:

1. **Wear Safety Glasses:** Always wear appropriate eye protection during installation to prevent injury from spring-loaded components.
2. **Position Pliers:** Insert the tips of the retaining ring pliers into the holes or notches on the retaining ring.
3. **Compress Ring:** Gently compress the retaining ring with the pliers, reducing its outside diameter sufficiently to fit into the bore.
4. **Insert into Bore:** Carefully guide the compressed ring into the bore.
5. **Seat in Groove:** Once inside the bore, release the pliers slowly, allowing the ring to expand and seat firmly into the designated groove. Ensure the ring is fully seated in the groove around its entire circumference.
6. **Verify Installation:** After installation, apply slight pressure to the component being retained to confirm the ring is securely in place and preventing axial movement.

Note: For removal, reverse the installation process, compressing the ring with pliers to extract it from the bore.

5. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of the retaining ring.

- **Regular Inspection:** Periodically inspect installed retaining rings for signs of wear, corrosion, or deformation. Replace any ring showing damage.
- **Cleaning:** If removed for maintenance, clean the ring and its groove thoroughly before reinstallation.
- **Lubrication:** The ring comes with an oil finish. If operating in corrosive environments, consider additional compatible lubrication or protective coatings as needed, ensuring it does not interfere with the ring's function.
- **Storage:** Store unused retaining rings in a dry environment to prevent corrosion.

6. TROUBLESHOOTING

This section addresses common issues encountered with retaining rings.

- **Difficulty Installing:**
 - Ensure you are using the correct size and type of retaining ring pliers.
 - Verify the bore and groove dimensions match the ring's specifications.
 - Check for burrs or obstructions in the bore or groove.
- **Ring Not Seating Properly:**
 - Confirm the ring is fully expanded into the groove.
 - Inspect the groove for damage, debris, or incorrect dimensions.
 - Ensure the ring is not bent or deformed.
- **Component Movement After Installation:**
 - The ring may not be fully seated in the groove.
 - The groove or ring may be worn or damaged.
 - The wrong size ring may have been used for the application.

7. SPECIFICATIONS

Detailed technical specifications for the MOLLIFII WHM-500-A Internal Retaining Ring.

Specification	Value
Manufacturer	MOLLIFII
Model Number	WHM-500-A
Fastener Type	Retaining Ring
Location Style	Internal
Material	Steel
Finish	Plain (Oil)
System of Measurement	Inch
Thickness	0.111 in
For Bore Diameter	5 in
Fits Groove Diameter	5.26 in
Fits Groove Width	0.12 in
Fits Groove Depth	0.13 in
Free Outside Diameter	5.297 in
Material Grade/Class	Ungraded
Tensile Strength	211,000 psi
Ring Type	Spiral Retaining Ring
Material Quality Standards	ANSI
Product Dimensions (L x W x H)	5 x 1 x 1 inches

8. WARRANTY AND SUPPORT

MOLLIFII products are manufactured to high-quality standards. For specific warranty information or technical support regarding your WHM-500-A Internal Retaining Ring, please refer to the manufacturer's official website or contact their customer service department. Keep your purchase receipt for warranty claims.

For further assistance, please visit the MOLLIFII support page or contact your retailer.