Wheeler 545454

Wheeler Scope Mounting Kit Combo and Professional Reticle Leveling System

MODEL: 545454

Introduction

This manual provides detailed instructions for the proper use and maintenance of your Wheeler Scope Mounting Kit Combo and Professional Reticle Leveling System. Achieving precise scope installation is crucial for firearm accuracy. This kit includes tools designed to ensure optimal alignment, contact, and secure fastening of your scope to your rifle.

Your browser does not support the video tag.

Video: Overview of the Wheeler Professional Scope Mounting Kit. This video demonstrates the components and their general application in mounting a scope, including alignment, lapping, leveling, and torquing procedures.

Kit Components

The Wheeler Scope Mounting Kit Combo includes the following essential tools:

- Scope Ring Alignment Bars
- Lapping Bars (1-inch and 30mm)
- 220 Grit Lapping Compound
- F.A.T. Wrench (Firearm Accurizing Torque Wrench)
- Professional Grade Driver Bits
- Level-Level-Level System (for reticle leveling)
- Thread Locking Compound
- Molded Storage Case



Image: The complete Wheeler Scope Mounting Kit Combo, showcasing all tools neatly organized within its durable molded storage case.

Setup and Installation

Proper scope installation involves several critical steps to ensure maximum accuracy and stability.

1. Ring Alignment

Ensure your scope rings are perfectly aligned to prevent stress on the scope tube and maintain accuracy.

1. Mount the scope rings onto your rifle's base according to the ring manufacturer's instructions. Do not fully tighten.
2. Insert the Wheeler Alignment Bars into the rings. The pointed ends should meet precisely in the middle if the rings are aligned.
3. Adjust the rings until the alignment bars meet without any gaps or misalignment.
4. Once aligned, carefully remove the alignment bars.


0.1 MIL
0.1 MIL

Image: A user checking the alignment of scope rings using the Wheeler Alignment Bars. Proper alignment ensures the scope is held perfectly in line with the barrel.

2. Ring Lapping

Lapping ensures uniform contact between the scope tube and the rings, preventing damage and improving grip.

1. Apply a small amount of the 220 Grit Lapping Compound to the lapping bar.
2. Insert the lapping bar into the aligned rings.
3. Rotate and move the lapping bar back and forth within the rings to evenly remove material from the ring interiors. Continue until a uniform contact pattern is observed.
4. Clean the rings thoroughly to remove all lapping compound residue.

3. Scope Leveling

A level reticle is essential for accurate long-range shooting, especially when making elevation adjustments.

1. Place the rifle in a stable rest or vise.
2. Use the smaller Level-Level-Level unit on a flat surface of the rifle (e.g., receiver or scope base) to ensure the rifle itself is level.
3. Place the larger Level-Level-Level unit on the top turret of the scope.
4. Rotate the scope within the rings until the bubble in the scope-mounted level indicates it is perfectly level.
5. Carefully tighten the scope rings, ensuring the scope does not rotate during tightening.

4. Fastener Torquing

Use the F.A.T. Wrench to apply precise and repeatable torque to all fasteners, preventing over-tightening or under-tightening.

1. Consult your scope ring and rifle manufacturer's specifications for recommended torque values. The F.A.T. Wrench provides settings from 10 in-lbs to 65 in-lbs.
2. Select the appropriate driver bit and insert it into the F.A.T. Wrench.
3. Set the desired torque value on the F.A.T. Wrench.
4. Apply thread locking compound to the screw threads if recommended by the manufacturer.
5. Tighten each screw until the F.A.T. Wrench clicks, indicating the set torque has been reached. Tighten screws in a crisscross pattern for even pressure.



Image: A user applying precise torque to scope ring screws using the Wheeler F.A.T. Wrench, ensuring secure and consistent fastening.

Maintenance

To ensure the longevity and performance of your Wheeler Scope Mounting Kit tools:

- Clean all tools after each use, especially the lapping bars and any components that come into contact with lapping compound.
- Store all components in the provided molded case to protect them from damage and loss.
- Keep the F.A.T. Wrench clean and dry. Do not use it as a standard screwdriver or for tasks requiring excessive force beyond its rated torque range.
- Periodically check driver bits for wear and replace as needed to prevent stripping screw heads.

Troubleshooting

If you encounter issues during scope mounting, consider the following:

- **Scope not holding zero:** Re-check all torque settings using the F.A.T. Wrench. Ensure rings are properly aligned and lapped. Verify the scope itself is not damaged.
- **Stripped screw heads:** This often results from using incorrect bit sizes or excessive force without a torque wrench. Always use the correct bit and the F.A.T. Wrench.
- **Scope canting (not level):** Re-perform the leveling procedure carefully, ensuring both the rifle and scope are level before tightening.
- **Rings not aligning:** Ensure the scope base is correctly installed and that the rings are designed for your specific base type.

Specifications

Brand	Wheeler
Model Number	545454
Product Dimensions	34.5L x 26.2W x 8.6H Centimetres
Item Weight	1.1 Kilograms
Material	Blend
Compatible Devices	Rifle
Mounting Type	Ring assembly
Objective Lens Diameter	30 Millimeters
F.A.T. Wrench Torque Range	10 in-lbs to 65 in-lbs

Warranty Information

For specific warranty details regarding your Wheeler Scope Mounting Kit Combo, please refer to the warranty card included with your product or visit the official Wheeler website. Keep your proof of purchase for any warranty claims.

Customer Support

If you require further assistance or have questions not covered in this manual, please contact Wheeler customer support through their official website or the contact information provided in your product packaging. Online resources, including FAQs and additional instructional videos, may also be available.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question