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Stihl MB 248, 253, RM 443, 448, RMA 448

Stihl Viking Hexagonal Knife Screw User Manual

Model Series: MB 248, 253, RM 443, 448, RMA 448

Brand: Stihl

Introduction

This manual provides essential information for the proper installation, maintenance, and troubleshooting of the Stihl Viking Hexagonal Knife Screw. This component is designed for securing the knife on various Stihl and Viking lawn mowers, ensuring safe and efficient operation. Please read this manual thoroughly before installation and use.

Product Overview

The Stihl Viking Hexagonal Knife Screw is a critical fastening component featuring a hexagonal head and a specialized screw locking mechanism, indicated by a blue marking on the thread. It is engineered for durability and secure attachment of the mower blade.



Figure 1: The Stihl Viking Hexagonal Knife Screw, showing its full length and the blue thread locking marking.



Figure 2: Close-up view of the hexagonal head of the knife screw, displaying manufacturing markings.

Setup and Installation

Proper installation of the hexagonal knife screw is crucial for the safe operation of your Stihl or Viking lawn mower. Always ensure the mower is turned off and the spark plug cap is removed before beginning any maintenance or installation.

1. **Verify Compatibility:** Ensure the screw is compatible with your specific mower model. This screw is designed for:
   - **Viking devices:** MB 2.2 R, MB 248, MB 248 T, MB 253, MB 253 T, MB 443, MB 443 T, MB 448, MB 448 T
   - **Stihl devices:** RM 2.0, RM 248.0, RM 253, RM 443, RM 448, RMA 2.0, RMA 2.1, RMA 443, RMA 448
2. **Prepare the Mower:** Position the mower on a stable, flat surface. If replacing an old screw, carefully remove the old screw and blade. Clean any debris from the mounting area.
3. **Position the Blade:** Align the new or existing mower blade correctly onto the blade adapter. Ensure it is seated flush and oriented in the correct cutting direction.
4. **Install the Screw:** Insert the hexagonal knife screw through the blade and into the mounting hole. The screw features a thread length of 55 mm and a blue marking indicating a screw locking mechanism.

5. **Tighten Securely:** Using an appropriate wrench, tighten the screw firmly. It is recommended to consult your mower's specific manual for the exact torque specifications. The integrated screw locking mechanism helps prevent loosening during operation.
6. **Final Check:** After tightening, visually inspect the blade and screw to ensure they are securely fastened and there is no wobble.

Operating Considerations

Once installed, the hexagonal knife screw functions as the primary fastener for your mower's blade. Its robust design and integrated locking feature are intended to maintain blade stability during high-speed rotation. No specific "operating" steps are required for the screw itself beyond its secure installation.

Maintenance

Regular inspection of the hexagonal knife screw is vital for safety and performance.

- **Pre-Operation Check:** Before each use of the mower, visually inspect the screw and blade for any signs of loosening, damage, or wear.
- **Tightness Check:** Periodically check the tightness of the screw. If it appears loose, re-tighten it to the manufacturer's specified torque. The blue screw locking mechanism is designed to resist loosening, but extreme vibrations or impacts can affect any fastener.
- **Corrosion Inspection:** Inspect the screw for signs of rust or corrosion, especially if the mower is stored in damp conditions. Replace the screw if significant corrosion is present, as it can compromise its strength.
- **Damage Assessment:** If the mower blade strikes a hard object, immediately turn off the mower and inspect the screw for bending, cracking, or stripping. Replace the screw if any damage is observed.

Troubleshooting

Most issues related to the hexagonal knife screw can be resolved by proper installation and regular inspection.

Problem	Possible Cause	Solution
Blade wobbles or vibrates excessively	Screw is loose; Blade not properly seated; Screw or blade damaged.	Tighten screw to specified torque; Re-seat blade correctly; Inspect and replace damaged screw or blade.
Screw cannot be tightened	Threads are stripped (on screw or mower shaft); Incorrect screw size.	Replace the screw. If mower shaft threads are stripped, professional repair may be required. Verify correct screw model.
Screw is difficult to remove	Corrosion; Over-tightened; Thread locker (blue marking) is effective.	Apply penetrating oil if corroded; Use appropriate tools and leverage. The thread locker is designed for secure fastening.

Specifications

Key technical specifications for the Stihl Viking Hexagonal Knife Screw:

- **Thread Length:** 55 mm
- **Material:** Zinc
- **Thread Size:** M8
- **Exterior Finish:** Zinc
- **Head Style:** Hex
- **Manufacturer Grade:** Heavy-duty

- **Package Dimensions:** 2.76 x 2.76 x 0.67 inches
- **Weight:** 1.41 ounces

Warranty Information

Specific warranty terms for the Stihl Viking Hexagonal Knife Screw are typically provided by the manufacturer, Stihl, or the authorized seller at the time of purchase. Please retain your proof of purchase. For detailed warranty coverage, limitations, and claim procedures, refer to the documentation included with your product or contact Stihl customer service directly.

Customer Support

If you require further assistance, have questions regarding installation, or need to report a defect, please contact your authorized Stihl dealer or the Stihl customer support line. Always provide the product's model information and any relevant purchase details when seeking support.

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