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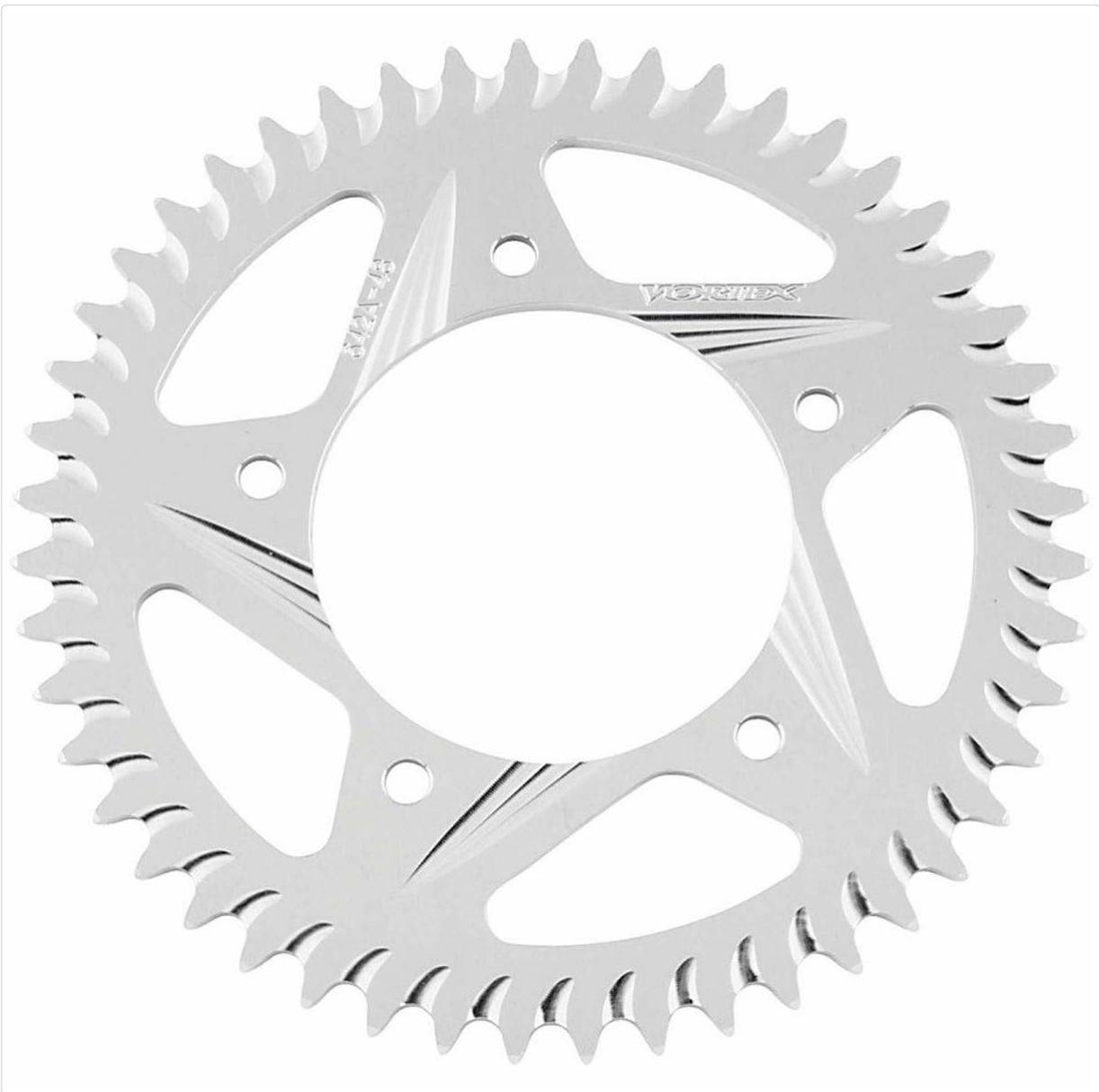
Vortex 452-39

Vortex 452-39 Silver 39-Tooth Rear Sprocket Instruction Manual

Model: 452-39

INTRODUCTION

This manual provides essential information for the installation, maintenance, and optimal performance of your Vortex 452-39 Silver 39-Tooth Rear Sprocket. Designed for motorcycle and powersports applications, this lightweight aluminum racing sprocket is precision-engineered for durability and performance. Please read these instructions carefully before installation and use.



An image showing the Vortex 452-39 Silver 39-Tooth Rear Sprocket, highlighting its lightweight aluminum construction and tooth design.

SETUP AND INSTALLATION

Proper installation is crucial for the safety and longevity of your sprocket and motorcycle. It is highly recommended that installation be performed by a qualified motorcycle mechanic.

Pre-Installation Checks:

- **Compatibility:** Ensure the Vortex 452-39 sprocket is compatible with your specific motorcycle make and model.
- **Inspection:** Visually inspect the new sprocket for any manufacturing defects or shipping damage.
- **Tools:** Gather all necessary tools, including a torque wrench, socket set, and chain breaker/riveter if replacing the chain.

Installation Steps (General):

1. **Secure Motorcycle:** Place the motorcycle on a stand to lift the rear wheel off the ground.
2. **Remove Old Sprocket:** Loosen and remove the rear wheel. Carefully remove the old sprocket and any associated hardware.

3. **Clean Hub:** Thoroughly clean the wheel hub and mounting surface to ensure proper seating of the new sprocket.
4. **Install New Sprocket:** Position the Vortex 452-39 sprocket onto the wheel hub, ensuring it sits flush. Install the sprocket bolts and nuts.
5. **Torque Bolts:** Tighten the sprocket bolts to the manufacturer's specified torque values for your motorcycle. Refer to your motorcycle's service manual for exact specifications. *Do not overtighten.*
6. **Reinstall Wheel:** Reinstall the rear wheel, ensuring proper chain alignment and tension.
7. **Final Checks:** Rotate the wheel manually to check for any binding or misalignment.

USAGE CONSIDERATIONS

While a sprocket does not have 'operating' controls, its performance is directly linked to proper setup and ongoing care.

- **Chain Compatibility:** Always use a chain that is compatible with the sprocket's pitch and tooth count.
- **Chain Tension:** Maintain correct chain tension as specified by your motorcycle manufacturer. Incorrect tension can lead to premature wear of both the chain and sprocket.
- **Regular Inspection:** Periodically inspect the sprocket for signs of wear, damage, or loose fasteners.
- **Break-in Period:** New sprockets and chains may require a short break-in period. Avoid aggressive riding immediately after installation.

MAINTENANCE

Regular maintenance will extend the life of your Vortex sprocket and ensure safe operation.

- **Cleaning:** Keep the sprocket clean from dirt, grime, and old chain lubricant. Use a suitable chain cleaner and brush.
- **Lubrication:** While the sprocket itself doesn't require lubrication, ensure your drive chain is regularly cleaned and lubricated according to its manufacturer's recommendations. A well-lubricated chain reduces wear on the sprocket.
- **Wear Inspection:** Regularly check the sprocket teeth for signs of wear, such as hooking, thinning, or bending. Replace the sprocket if significant wear is observed. It is often recommended to replace the chain and both sprockets (front and rear) simultaneously for optimal performance and longevity.
- **Fastener Torque:** Periodically check the torque of the sprocket mounting bolts to ensure they remain tight.

TROUBLESHOOTING

If you encounter issues, consider the following common problems and solutions:

- **Excessive Noise:**
 - **Cause:** Incorrect chain tension, worn chain, misaligned wheel/sprocket, or debris.
 - **Solution:** Adjust chain tension, inspect chain and sprockets for wear, check wheel alignment, clean drive components.
- **Premature Wear:**
 - **Cause:** Lack of lubrication, incorrect chain tension, misaligned components, or using a worn chain with a new sprocket.
 - **Solution:** Ensure proper chain lubrication and tension, verify alignment, replace chain and sprockets as a set.

- **Sprocket Wobble:**

- **Cause:** Improper installation, loose mounting bolts, damaged hub, or defective sprocket.
- **Solution:** Recheck mounting bolt torque, inspect hub for damage, ensure sprocket is seated correctly. If wobble persists, consult a professional.

SPECIFICATIONS

Feature	Specification
Model Number	452-39
Material	7075 T6 Billet Aluminum
Tooth Count	39-Tooth
Color	Silver (Anodized)
Manufacturing	100% CNC Manufactured in the USA
Special Features	Saber tooth grooves, unique tooth design for longevity, corrosion prevention, lightweight
Approximate Item Weight	2.2 pounds
Approximate Package Dimensions	12 x 12 x 0.5 inches

SUPPORT

For further assistance, technical support, or warranty inquiries, please contact Vortex directly through their official website or authorized dealers. Always refer to your motorcycle's service manual for specific torque values and maintenance schedules.