

Sunstar 5-349746

Sunstar 5-349746 Works Triplestar Rear Aluminum Sprocket Instruction Manual

1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and care of your Sunstar 5-349746 Works Triplestar Rear Aluminum Sprocket. Adhering to these instructions will ensure optimal performance and longevity of the product. Please read this manual thoroughly before installation or use.

2. PRODUCT OVERVIEW

The Sunstar 5-349746 Works Triplestar Rear Aluminum Sprocket is engineered for high performance and durability. It features a 46-tooth configuration for 520 chain size applications.

- **Material:** Constructed from high-quality aerospace-grade 7075-T6 aluminum for superior strength and reduced weight.
- **Design:** Incorporates computer-designed weight reduction holes for optimal balance and lightness.
- **Durability:** Features an exclusive tooth-and-valley design that increases chain contact area by 24%, leading to more efficient power transfer and extended sprocket life. A hard anodized coating provides a super durable finish, increasing durability by 15-20%.
- **Compatibility:** Designed for 520 chain conversion on various Suzuki models, including DL1000 V-STROM (2002-2008), GSX-R1000 (2001-2008), GSX-R600 (2001-2009), GSX-R750 (2000-2009), and SV1000 (2003-2007, including 1000S).



Image 1: Sunstar 5-349746 Works Triplestar Rear Aluminum Sprocket. This image displays the Sunstar 5-349746 Works Triplestar rear aluminum sprocket. It features a gold hard-anodized finish, 46 teeth, and multiple computer-designed weight reduction holes. The 'SUNSTAR' logo is visible on the face.

3. SAFETY INFORMATION

Always prioritize safety when working with motorcycle components. Improper installation or maintenance can lead to serious injury or damage to your vehicle.

- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure the motorcycle is securely supported on a stand before beginning any work.
- Allow the engine and exhaust to cool completely before handling components.
- Refer to your motorcycle's service manual for specific torque specifications and procedures.
- If you are unsure about any step, consult a qualified motorcycle mechanic.

4. SETUP AND INSTALLATION

Installation of a rear sprocket requires mechanical aptitude and specific tools. It is highly recommended that installation be performed by a certified professional.

General Installation Steps:

1. **Preparation:** Secure the motorcycle on a rear stand. Remove the rear wheel according to your motorcycle's service manual.
2. **Sprocket Removal:** Carefully remove the old rear sprocket from the wheel hub. Note the orientation and any spacers.
3. **Inspection:** Inspect the wheel hub, sprocket carrier, and mounting bolts for any wear or damage. Replace any worn components.
4. **Sprocket Installation:** Mount the new Sunstar sprocket onto the wheel hub, ensuring proper alignment with the bolt holes.
5. **Fastening:** Install the sprocket bolts and nuts. Tighten them in a star pattern to the manufacturer's specified torque. *Refer to your motorcycle's service manual for exact torque values.*
6. **Wheel Reinstallation:** Reinstall the rear wheel onto the motorcycle.
7. **Chain Adjustment:** Adjust chain tension to the motorcycle manufacturer's specifications. Ensure proper chain alignment.
8. **Final Check:** Rotate the wheel by hand to ensure smooth operation and no binding. Double-check all fasteners for proper torque.

5. USAGE CONSIDERATIONS

The rear sprocket is a critical component of your motorcycle's drivetrain. Proper selection and maintenance directly impact performance and safety.

- **Chain Compatibility:** Always use a 520 chain with this sprocket. Ensure the chain is in good condition and properly lubricated.
- **Gearing Changes:** Changing the number of teeth on your rear sprocket will alter your motorcycle's gearing ratio, affecting acceleration and top speed. Be aware of these changes and adjust your riding style accordingly.
- **Break-in Period:** A new sprocket and chain combination may require a short break-in period. Monitor for any unusual noises or wear during initial use.

6. MAINTENANCE

Regular maintenance is crucial for extending the life of your sprocket and ensuring safe operation.

- **Inspection:** Periodically inspect the sprocket teeth for signs of wear, such as hooking, thinning, or bending. Replace the sprocket if significant wear is observed.
- **Cleaning:** Keep the sprocket clean from dirt, grime, and old chain lubricant buildup. Use a suitable chain cleaner and brush.
- **Chain Lubrication:** Ensure your drive chain is regularly cleaned and lubricated according to its manufacturer's recommendations. A well-maintained chain reduces wear on the sprocket.
- **Chain Tension:** Regularly check and adjust chain tension to the motorcycle manufacturer's specifications. Incorrect tension can accelerate sprocket wear.
- **Sprocket Bolts:** Periodically check the torque of the sprocket mounting bolts to ensure they are secure.

7. TROUBLESHOOTING

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

- **Excessive Wear:** If the sprocket teeth show rapid or uneven wear, check your chain for wear, proper lubrication, and correct tension. Ensure the front sprocket is also in good condition.
- **Noise/Vibration:** Unusual noises or vibrations from the drivetrain can indicate improper chain tension, a worn chain, misaligned sprockets, or loose mounting bolts. Inspect all components thoroughly.
- **Chain Derailment:** If the chain frequently derails, check for proper chain tension, alignment, and excessive wear on both sprockets and the chain itself.

For persistent issues, consult a qualified motorcycle mechanic.

8. SPECIFICATIONS

Model Number	5-349746
Brand	Sunstar
Material	Aerospace Grade 7075-T6 Aluminum
Teeth Count	46
Chain Size	520
Coating	Hard Anodized (Gold)
Product Dimensions (LxWxH)	37.6 x 30 x 0.8 Centimeters
Item Weight	372 g

9. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your Sunstar 5-349746 Works Triplestar Rear Aluminum Sprocket, please refer to the official Sunstar website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

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