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› [Sunstar](#) /

› Sunstar 2-145655 55-Teeth 420 Chain Size Rear Steel Sprocket User Manual

Sunstar 2-145655

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Model: 2-145655 | Brand: Sunstar

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Sunstar 2-145655 55-Teeth 420 Chain Size Rear Steel Sprocket. This sprocket is constructed from 1045 series high carbon steel, featuring an exclusive heat treatment process for enhanced strength and wear resistance. Its zinc plating and baked-on paint process contribute to a durable and long-lasting appearance. Adhering to the guidelines in this manual will help ensure optimal performance and longevity of the product.

2. PRODUCT FEATURES

- Uses high carbon, 1045 steel material for superior durability.
- Exclusive heat treatment process for added wear and strength, extending product life.
- Zinc plating and baked-on paint process for a long-lasting, corrosion-resistant appearance.
- Designed as a strong and long-lasting standard steel rear sprocket.

3. SETUP AND INSTALLATION

Proper installation is critical for the safety and performance of your motorcycle or powersport vehicle. If you are unsure about any step, it is recommended to seek assistance from a qualified mechanic.

3.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure the vehicle is stable and securely supported on a stand before beginning work.
- Allow the engine and exhaust system to cool down completely to prevent burns.
- Refer to your vehicle's service manual for specific torque specifications and procedures.

3.2 Installation Steps

1. **Remove the Rear Wheel:** Loosen the axle nut and remove the rear wheel from the vehicle according to your vehicle's service manual.

2. **Remove Old Sprocket:** Carefully remove the bolts securing the old sprocket to the wheel hub. Note the orientation of any spacers or washers.
3. **Inspect Hub:** Clean the wheel hub thoroughly and inspect for any damage or wear.
4. **Install New Sprocket:** Place the new Sunstar sprocket onto the wheel hub, ensuring it seats correctly. Align the bolt holes.
5. **Secure Sprocket:** Install the sprocket bolts, washers, and nuts. Tighten them in a star pattern to the manufacturer's specified torque. Use thread-locking compound if recommended by your vehicle's manual.
6. **Reinstall Wheel:** Reinstall the rear wheel onto the vehicle, ensuring the chain is properly routed around the new sprocket.
7. **Adjust Chain Tension:** Adjust the chain tension to the vehicle manufacturer's specifications. Refer to Section 4 for more details.
8. **Final Checks:** Rotate the wheel by hand to ensure smooth operation and proper chain alignment. Double-check all fasteners for tightness.



Figure 1: The Sunstar 2-145655 55-Teeth 420 Chain Size Rear Steel Sprocket. This image shows the silver-colored steel sprocket with 55 teeth, designed for a 420 chain size. The central mounting holes and weight-reducing cutouts are visible.

4. OPERATION CONSIDERATIONS

While a sprocket itself is a static component, its proper function is dependent on the overall drive train system. Key operational considerations involve maintaining correct chain tension and alignment.

4.1 Chain Tension

- **Correct Tension:** Refer to your vehicle's service manual for the exact recommended chain slack. Too tight a chain can cause excessive wear on the sprocket, chain, and transmission bearings. Too loose a chain can lead to chain derailment or damage.
- **Adjustment:** Adjust chain tension by loosening the axle nut and using the chain adjusters on the swingarm. Ensure both sides are adjusted equally to maintain wheel alignment.

4.2 Chain Alignment

- **Proper Alignment:** Ensure the front and rear sprockets are perfectly aligned. Misalignment causes uneven wear on the sprocket teeth and chain, reducing their lifespan.
- **Checking Alignment:** Use a straight edge or a laser alignment tool to verify alignment.

5. MAINTENANCE

Regular maintenance of your drive train components, including the sprocket, is essential for safety and extending the life of your parts.

5.1 Inspection

- **Frequency:** Inspect the sprocket every 500-1000 miles or as recommended by your vehicle's service manual.
- **Wear Patterns:** Look for hooked or pointed teeth, which indicate wear and necessitate replacement. Uneven wear can suggest chain misalignment.
- **Damage:** Check for bent, cracked, or missing teeth.
- **Fasteners:** Ensure all sprocket mounting bolts are tight and secure.

5.2 Cleaning and Lubrication

- **Cleaning:** Regularly clean the sprocket and chain to remove dirt, grime, and old lubricant. Use a suitable chain cleaner and brush.
- **Lubrication:** After cleaning, lubricate the chain with a high-quality chain lubricant. While the sprocket itself doesn't require lubrication, a well-lubricated chain reduces wear on the sprocket teeth.

6. TROUBLESHOOTING

This section addresses common issues related to sprockets and the drive chain system.

Symptom	Possible Cause	Solution
Excessive Sprocket Wear (Hooked Teeth)	Worn chain, improper chain tension, lack of lubrication, misaligned sprockets.	Replace chain and sprockets simultaneously. Adjust chain tension. Ensure proper lubrication. Check and correct sprocket alignment.
Chain Noise or Roughness	Dry or dirty chain, incorrect chain tension, worn sprockets, misaligned sprockets.	Clean and lubricate chain. Adjust chain tension. Inspect sprockets for wear. Check and correct sprocket alignment.

Symptom	Possible Cause	Solution
Chain Derailment	Excessively loose chain, severely worn sprockets, misaligned sprockets, damaged chain.	Adjust chain tension. Inspect and replace worn sprockets and/or chain. Check and correct sprocket alignment.
Loose Sprocket Bolts	Improper torque during installation, lack of thread-locking compound.	Tighten bolts to specified torque. Consider using a medium-strength thread-locking compound if not already used and recommended by vehicle manual.

7. SPECIFICATIONS

Attribute	Detail
Brand	Sunstar
Model Number	2-145655 (SUT2-145655)
Number of Teeth	55-Teeth
Chain Size	420
Material	1045 Series High Carbon Steel
Finish	Zinc Plating and Baked-on Paint
Item Weight	0.01 ounces
Product Dimensions	9 x 9 x 0.1 inches
Manufacturer Part Number	2145655
OEM Part Number	2-145655
Date First Available	March 18, 2008

8. WARRANTY INFORMATION

Specific warranty details for the Sunstar 2-145655 sprocket are not provided in this manual. For comprehensive warranty information, please refer to the official Sunstar website or contact Sunstar customer support directly. Keep your proof of purchase for any warranty claims.

9. SUPPORT AND CONTACT

If you have any questions regarding the installation, operation, or maintenance of your Sunstar sprocket, please contact Sunstar customer support.

Manufacturer: Sunstar

Website: www.sunstar-mc.com (Please note: This is a generic placeholder URL for Sunstar's official website. Always verify the correct URL.)

Customer Service: Refer to the official Sunstar website for contact numbers or email support.

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