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› NICHE Drive Sprocket Chain Combo for Kawasaki Ninja ZX6R ZX6RR - Installation and Maintenance Manual

NICHE MK1004179

NICHE Drive Sprocket Chain Combo Instruction Manual

For Kawasaki Ninja ZX6R & ZX6RR (Front 15, Rear 43 Tooth, 520V O-Ring, 110 Links)

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your NICHE Drive Sprocket Chain Combo. Adhering to these instructions will help ensure the longevity and optimal performance of the components. This kit is designed for specific Kawasaki Ninja models.

2. PRODUCT OVERVIEW AND COMPATIBILITY

The NICHE Drive Sprocket Chain Combo includes a drive chain, a front drive sprocket, and a rear drive sprocket. These components are engineered to work together as a complete drive system.

2.1. Included Components

- One (1) Drive Chain (520V O-Ring, 110 Links)
- One (1) Front Drive Sprocket (15 Tooth)
- One (1) Rear Drive Sprocket (43 Tooth)



Image 2.1: The complete NICHE Drive Sprocket Chain Combo, including the O-ring chain, front sprocket, rear sprocket, and master link components.

2.2. Compatibility

This drive sprocket chain combo is compatible with the following motorcycle models:

- 2005-2006 Kawasaki Ninja ZX6R
- 2005-2006 Kawasaki Ninja ZX6RR

It is compatible with the following OEM part numbers:

- Front Sprocket OEM Parts: Kawasaki 13144-1324
- Rear Sprocket OEM Parts: Kawasaki 42041-0010, 42041-0070, 42041-0094
- Drive Chain OEM Parts: Kawasaki 92057-0049, 92057-0089, 92057-0196, 92057-1401, 92057-1410, 92057-1458

3. SPECIFICATIONS

Component	Specification
Front Sprocket	15 Tooth, SAE 1023 structural carbon steel
Rear Sprocket	43 Tooth, SAE 1023 structural carbon steel
Chain Type	520V O-Ring, 110 Links
Chain Material	Steel with O-Rings for sealing
Model Number	MK1004179
Item Weight	4.9 pounds (approximate)
Product Dimensions	15.5 x 11.5 x 3.5 inches (packaging)

MODEL #: 520V
LINKS: 110
CHAIN TYPE: O-RING



OFF ROAD



STREET



ATV

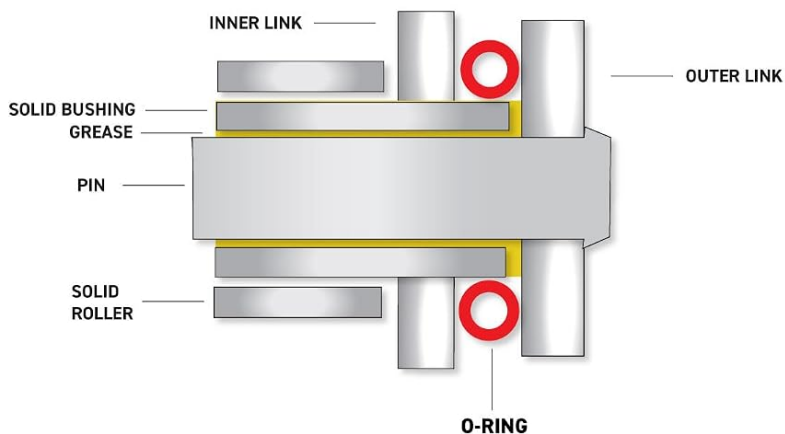
DESIGNED FOR

POWERSPORTS

Image 3.1: Close-up view of the 520V O-Ring chain links, highlighting the O-ring seals.

O-RING

The O-Ring and X-Ring type is used to describe which type of seal you use. This seal is used to keep grease in the bushings and pins, as well as keep dirt and debris out. Therefore, the type you choose is important to the type of durability and performance you need in your chain.



O-RING

- Can last anywhere from 1 - 2 times longer than the regular non O-Ring Chain.
- Tends to stretch less than a standard non O-Ring chain.
- Needs less maintenance than a standard non O-Ring

Image 3.2: A diagram illustrating the internal structure of an O-Ring chain, showing how the O-rings seal grease within the pins and bushings.

4. SETUP AND INSTALLATION

Warning: Drive chain and sprocket installation should only be performed by a certified professional. Incorrect installation can lead to serious injury or damage to the motorcycle.

Always refer to your motorcycle's service manual for specific torque specifications and detailed installation procedures. The following is a general guide and does not replace professional advice.

4.1. Required Tools and Materials

- Motorcycle service manual
- Chain breaker and riveting tool
- Torque wrench
- Socket set and wrenches
- Chain lubricant (specifically designed for O-ring chains)
- Cleaning supplies (e.g., chain cleaner, wire brush)
- Safety glasses and gloves

4.2. Installation Steps (General)

1. **Preparation:** Secure the motorcycle on a stand. Remove the chain guard and front sprocket cover.
2. **Remove Old Components:** Break the old chain using a chain breaker. Remove the front and rear sprockets.

3. **Inspect:** Thoroughly inspect the swingarm, chain sliders, and wheel bearings for wear or damage. Replace any worn components.
4. **Install New Sprockets:** Install the new front and rear sprockets. Ensure they are correctly oriented and tightened to the manufacturer's specified torque.
5. **Install New Chain:** Route the new chain over the sprockets. Use the provided master link to connect the chain ends. Ensure the master link is installed correctly and securely, following the instructions for your specific master link type (clip or rivet).
6. **Adjust Chain Slack:** Adjust the chain tension according to your motorcycle's service manual specifications. Proper chain slack is critical for performance and safety.
7. **Final Checks:** Reinstall chain guards and covers. Rotate the wheel manually to ensure smooth operation and no binding. Double-check all fasteners for correct torque.



Image 4.1: The 15-tooth front drive sprocket, made from SAE 1023 structural carbon steel.



Image 4.2: The 43-tooth rear drive sprocket, also made from SAE 1023 structural carbon steel.



Image 4.3: The master link components, including pins, outer plate, and O-rings, used to connect the chain ends.

5. OPERATING CONSIDERATIONS

Once installed, the drive system requires minimal operational considerations beyond regular maintenance. Ensure that the chain slack is checked periodically, especially after the first few rides, as new chains can stretch slightly. Avoid sudden, harsh acceleration or braking that can put excessive stress on the chain and sprockets.

6. MAINTENANCE

Proper maintenance is crucial for extending the life of your drive chain and sprockets and ensuring safe operation. Neglecting maintenance can lead to premature wear and potential failure.

6.1. Regular Inspection

- **Sprockets:** Always ensure that your sprockets are in good condition and properly aligned. Check for hooked teeth, excessive wear, or damage.
- **Chain:** Inspect the chain for tight spots, rust, kinks, or damaged O-rings. Check chain slack regularly and adjust as needed.



Image 6.1: Regular inspection of the drive chain for wear, damage, or proper tension is essential for safety and longevity.

6.2. Cleaning and Lubrication

Lubricate your chain at every 300-350 miles with a lubricant specifically designed for O-ring chains. Do not let chain maintenance slip; a broken chain can compromise safety and riding experience.

- **Cleaning:** Clean your chain if it comes into contact with salt water or rock salt. Do not use harsh solvents or chemicals such as Benzene to clean your chain, as these can damage the O-rings.
- **Lubrication:** Apply lubricant evenly to the inner and outer plates, ensuring it penetrates the rollers and O-rings.



Image 6.2: Proper cleaning of the motorcycle chain helps remove dirt and debris, preventing premature wear.



Image 6.3: Applying appropriate chain lubricant is vital for reducing friction and protecting the chain components.

6.3. Special Conditions

- **Battery Acid Contact:** Replace the chain immediately if it comes into contact with battery acid.

7. TROUBLESHOOTING

This section addresses common issues that may arise with your drive chain and sprockets.

7.1. Excessive Noise or Vibration

- **Cause:** Improper chain slack, worn sprockets, dry chain, or misaligned components.
- **Solution:** Check and adjust chain slack. Inspect sprockets for wear and replace if necessary. Clean and lubricate the chain. Verify sprocket and wheel alignment.

7.2. Premature Wear

- **Cause:** Lack of lubrication, improper chain tension, riding in harsh conditions without adequate cleaning, or worn sprockets.
- **Solution:** Adhere to the recommended cleaning and lubrication schedule. Ensure chain slack is within specifications. Clean the chain after exposure to corrosive elements. Replace sprockets and chain as a set if significant wear is observed.

7.3. Chain Kinks or Stiff Links

- **Cause:** Insufficient lubrication, dirt ingress, or damage to O-rings.
- **Solution:** Thoroughly clean and lubricate the affected links. If the issue persists or O-rings are visibly damaged, the chain may need replacement.

8. WARRANTY INFORMATION

This NICHE product is covered by a 2-year warranty. For specific terms and conditions, please refer to the official NICHE Industries warranty policy or contact customer support.



Image 8.1: NICHE Industries offers a 2-year warranty on this product.

9. SUPPORT

For further assistance, technical questions, or warranty claims, please contact NICHE Industries customer support through their official website or the retailer where the product was purchased.

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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