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Race-Driven RDF-231-16, RDR-321-46

Race-Driven Front & Rear Sprockets User Manual

For 2006-2008 Kawasaki Ninja 650R EX650

Product Overview

This manual provides essential information for the installation, maintenance, and troubleshooting of your Race-Driven Front and Rear Sprockets. These sprockets are designed to meet or exceed OEM specifications for the specified Kawasaki Ninja 650R EX650 models.

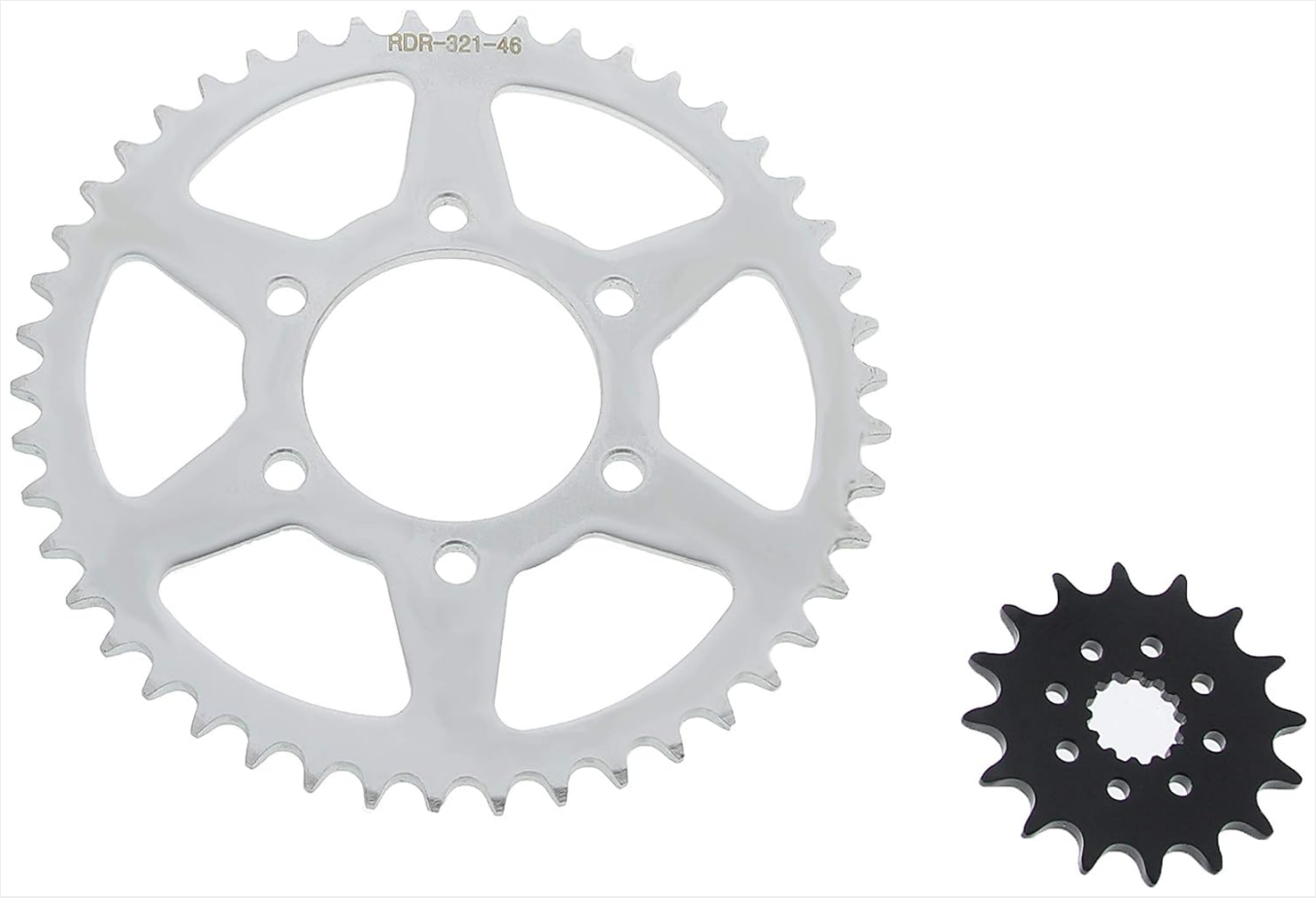

Image: Race-Driven Front and Rear Sprockets. The image displays both the silver rear sprocket (larger) and the black front sprocket (smaller) on a white background.

Setup and Installation

Proper installation of sprockets is critical for safety and performance. It is recommended that installation be performed by a qualified motorcycle mechanic. Always refer to your motorcycle's service manual for specific torque specifications and procedures.

Required Tools and Materials:

- Appropriate wrenches and sockets
- Torque wrench
- Chain breaker and riveting tool (if replacing chain)
- New chain (recommended when replacing sprockets)
- Thread-locking compound (e.g., Loctite)
- Shop rags and cleaning solution

Installation Steps (General Guide):

1. Secure the motorcycle on a stand to lift the wheels off the ground.
2. Remove the chain guard and any covers obstructing access to the sprockets.
3. Loosen the rear axle nut and adjust the chain tensioners to allow slack.
4. Remove the old chain. It is highly recommended to replace the chain when replacing sprockets to ensure optimal performance and longevity of the new components.
5. Remove the old front sprocket by unbolting its retaining plate or nut.
6. Remove the old rear sprocket by unbolting it from the wheel hub.
7. Clean the mounting surfaces thoroughly on both the wheel hub and the engine output shaft.
8. Install the new Race-Driven rear sprocket onto the wheel hub, ensuring proper alignment. Apply thread-locking compound to the bolts and torque them to the manufacturer's specifications.
9. Install the new Race-Driven front sprocket onto the engine output shaft, ensuring proper orientation. Apply thread-locking compound to the retaining bolts/nut and torque them to the manufacturer's specifications.
10. Install the new drive chain, ensuring it is routed correctly.
11. Adjust chain tension according to your motorcycle's service manual.
12. Reinstall all covers and chain guards.
13. Perform a final check of all fasteners and chain tension before riding.



Image: Race-Driven Front Sprocket. A close-up view of the black 16-tooth front sprocket, showing its splined center hole and mounting bolt holes.



Image: Race-Driven Rear Sprocket. A close-up view of the silver 46-tooth rear sprocket, showing its bolt pattern and the "RDR-321-46" model number stamped on it.

Operating Considerations

Once installed, the sprockets work in conjunction with the drive chain to transmit power from the engine to the rear wheel. The 16/46 tooth count provides a specific gear ratio. Always ensure your chain is properly tensioned and lubricated for optimal performance and to prevent premature wear of both the chain and sprockets.
Avoid sudden, harsh acceleration or deceleration, as this can put excessive stress on the drivetrain components. Regular inspection is key to safe operation.

Maintenance

Regular maintenance extends the life of your sprockets and ensures safe operation.

Chain and Sprocket Inspection:

- **Frequency:** Inspect every 500-1000 miles or before long rides.
- **Chain Tension:** Check and adjust chain slack according to your motorcycle's manual. Incorrect tension can lead to rapid wear.
- **Sprocket Wear:** Look for hooked or pointed teeth on both front and rear sprockets. This indicates wear and

necessitates replacement.

- **Chain Condition:** Check for tight spots, rust, bent links, or excessive stretch. A worn chain will accelerate sprocket wear.
- **Alignment:** Ensure the front and rear sprockets are perfectly aligned. Misalignment causes uneven wear.

Cleaning and Lubrication:

- **Cleaning:** Clean the chain and sprockets regularly, especially after riding in dirty or wet conditions. Use a dedicated chain cleaner and brush to remove dirt and old lubricant.
- **Lubrication:** After cleaning, apply a high-quality chain lubricant evenly to the entire chain, ensuring it penetrates the rollers and side plates. This protects against wear and corrosion.

Troubleshooting

Symptom	Possible Cause	Solution
Excessive Noise (Whining/Grinding)	• Worn sprockets or chain • Improper chain tension • Lack of lubrication • Misaligned sprockets	• Inspect and replace worn components. • Adjust chain tension. • Clean and lubricate chain. • Check and correct sprocket alignment.
Chain Slipping/Skipping	• Severely worn sprockets (hooked teeth) • Stretched or worn chain • Incorrect chain tension	• Replace sprockets and chain. • Adjust chain tension.
Rapid Sprocket Wear	• Worn chain (not replaced with sprockets) • Improper chain tension • Lack of lubrication • Misalignment • Riding conditions (e.g., excessive dirt)	• Always replace chain with sprockets. • Maintain proper chain tension and lubrication. • Ensure correct alignment. • Clean drivetrain regularly.

Specifications

Attribute	Detail
Brand	Race-Driven
Model Numbers	RDF-231-16 (Front), RDR-321-46 (Rear)
Front Sprocket Teeth	16
Rear Sprocket Teeth	46
Material	S45C Hardened Steel
Compatibility	2006, 2007, 2008 Kawasaki Ninja 650R EX650
Item Weight	3.5 pounds

Attribute	Detail
Product Dimensions	14.5 x 12.5 x 1 inches
Manufacturer Part Number	P-42864

Warranty and Support

For specific warranty information or technical support regarding your Race-Driven sprockets, please contact Race-Driven directly. You can often find contact details on their official website or through the retailer where the product was purchased.

Manufacturer: Race-Driven

Seller: Race-Driven Inc

For general inquiries or to explore other products, visit theRace-Driven Store on Amazon.

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