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Race-Driven RDR-9080-43

Race-Driven Rear Sprocket User Manual

Model: RDR-9080-43

1. Product Overview

This manual provides essential information for the installation, maintenance, and safe operation of your Race-Driven 43 Tooth Rear Steel Sprocket, designed specifically for the 1980 Suzuki DR400. This sprocket is manufactured from hardened S45C steel to meet or exceed OEM specifications, ensuring reliable performance and durability.



Figure 1: Front view of the Race-Driven 43 Tooth Rear Steel Sprocket.

2. Safety Information

WARNING:

- Motorcycle maintenance and part replacement should only be performed by individuals with appropriate mechanical knowledge and tools. If you are unsure, consult a qualified motorcycle mechanic.
- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when

working on your motorcycle.

- Ensure the motorcycle is stable and securely supported before beginning any work. Use a proper stand.
- Improper installation of drive train components can lead to serious injury or death. Double-check all fasteners and ensure proper torque specifications are met.
- Keep hands and clothing clear of moving parts, especially the chain and sprockets.

3. Package Contents

Verify that all items are present and undamaged upon opening the package:

- 1 x Race-Driven 43 Tooth Rear Steel Sprocket (520 Pitch)



Figure 2: Angled view of the sprocket, showing the model number RDR-9080-43.

4. Specifications

Attribute	Detail
Brand	Race-Driven
Model Number	RDR-9080-43
Manufacturer Part Number	813707
Application	1980 Suzuki DR400
Tooth Count	43 Tooth
Chain Pitch	520 Pitch
Material	Hardened S45C Steel
Item Weight	1.64 pounds
Product Dimensions	14.5 x 12.5 x 1 inches

5. Installation

This section provides a general guide for rear sprocket replacement. Refer to your motorcycle's official service manual for specific torque values and detailed procedures for the 1980 Suzuki DR400.

1. **Preparation:** Park the motorcycle on a stable, level surface using a center stand or appropriate lift. Ensure the engine is off and cool.
2. **Remove Rear Wheel:** Loosen the axle nut and any chain adjusters. Remove the rear brake caliper (if necessary) and carefully slide the axle out. Remove the rear wheel from the swingarm.
3. **Remove Old Sprocket:** On the rear wheel, locate the bolts securing the old sprocket to the wheel hub. Loosen and remove these bolts. Carefully detach the old sprocket. Inspect the wheel hub and damper rubbers for wear and replace if necessary.
4. **Install New Sprocket:** Align the Race-Driven 43 Tooth Rear Steel Sprocket with the mounting holes on the wheel hub. Ensure it sits flush. Insert the sprocket bolts and hand-tighten them.
5. **Torque Sprocket Bolts:** Using a torque wrench, tighten the sprocket bolts to the manufacturer's specified torque. Tighten in a crisscross pattern to ensure even seating. *Consult your Suzuki DR400 service manual for the correct torque specification.*
6. **Reinstall Rear Wheel:** Carefully reinstall the rear wheel into the swingarm, ensuring the chain is properly routed over the new sprocket and the brake caliper is correctly positioned.
7. **Adjust Chain Tension:** Adjust the chain tension according to your motorcycle's service manual specifications. Ensure proper slack.
8. **Final Checks:** Tighten the axle nut to the specified torque. Rotate the wheel by hand to ensure smooth operation and no binding. Check brake function before riding.

It is highly recommended to replace the chain and front sprocket when replacing the rear sprocket to ensure optimal performance and longevity of the entire drive train system.

6. Maintenance

Proper maintenance will extend the life of your Race-Driven sprocket and entire drive train:

- **Regular Cleaning:** Clean your chain and sprockets regularly, especially after riding in dirty or wet conditions. Use a dedicated chain cleaner and brush.
- **Lubrication:** Lubricate your chain frequently with a high-quality chain lubricant. This protects both the chain and sprockets from wear.
- **Chain Tension:** Periodically check and adjust chain tension to the manufacturer's specifications. An overly tight or loose chain can accelerate sprocket wear.
- **Inspection:** Regularly inspect the sprocket teeth for signs of wear, such as hooked or pointed teeth. Also, check for bent or damaged teeth. Replace the sprocket if significant wear is observed.
- **Full Drive Train Replacement:** For optimal performance and safety, it is best practice to replace the front sprocket, rear sprocket, and chain as a complete set.

7. Troubleshooting

Problem	Possible Cause	Solution
Excessive noise from drive train	Worn chain, misaligned wheel, incorrect chain tension, worn sprocket.	Inspect chain and sprockets for wear. Adjust chain tension and wheel alignment. Replace worn components.
Rapid sprocket wear	Lack of lubrication, incorrect chain tension, worn chain, riding conditions (e.g., excessive dirt).	Ensure regular cleaning and lubrication. Correct chain tension. Consider replacing chain with sprocket.
Chain skipping or jumping	Severely worn sprocket teeth, stretched chain, incorrect chain tension.	Immediately inspect chain and sprockets. Replace worn components. Adjust chain tension. Do not ride with a skipping chain.

8. Warranty and Support

Race-Driven is committed to providing high-quality products. For any questions regarding your Race-Driven sprocket, or for information on warranty coverage, please contact Race-Driven customer support directly. Refer to the packaging or the official Race-Driven website for contact details.
You can visit the Race-Driven store on Amazon for more information:Race-Driven Store

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