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**JT JTR809.50**



# JT Sprockets JTR809.50 50T Steel Rear Sprocket Instruction Manual

Model: JTR809.50

## 1. PRODUCT OVERVIEW

The JT Sprockets JTR809.50 is a 50-tooth steel rear sprocket designed for powersports applications. Manufactured from C49 high carbon steel, it is engineered for durability and performance. Each sprocket undergoes rigorous quality control to ensure it meets or exceeds industry standards.

### Key Features:

- Constructed from C49 high carbon steel for maximum durability.
- Accurate machining for optimal performance.
- Heat-treated and hand-finished for precision.
- Designed to meet or exceed powersports industry quality standards.



Image 1: JT Sprockets JTR809.50 50T Steel Rear Sprocket. This image displays the black steel sprocket with 50 teeth, featuring a central mounting hole and five smaller bolt holes for attachment to a motorcycle or ATV hub.

## 2. SAFETY INFORMATION

Always prioritize safety when working with vehicle components. Improper installation or maintenance can lead to serious injury or damage. If you are unsure about any step, consult a qualified mechanic.

- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure the vehicle is stable and securely supported before beginning any work.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Keep hands and clothing clear of moving parts.
- Dispose of old parts and materials responsibly.

## 3. SETUP AND INSTALLATION

This section outlines the general steps for installing the JT Sprockets JTR809.50 rear sprocket. Specific procedures may vary depending on your vehicle model. Always consult your vehicle's service manual for detailed instructions.

1. **Prepare the Vehicle:** Park the vehicle on a level surface. Engage the parking brake and place the transmission in neutral. Lift the rear wheel off the ground using a suitable stand.
2. **Remove the Rear Wheel:** Loosen and remove the axle nut. Carefully slide the axle out and remove the rear wheel from the swingarm.
3. **Remove the Old Sprocket:** Locate the sprocket bolts on the wheel hub. Loosen and remove these bolts. Detach the old sprocket from the hub.
4. **Inspect Components:** Examine the wheel hub, sprocket bolts, and chain for any signs of wear or damage. Replace any worn components before installing the new sprocket.

5. **Install the New Sprocket:** Align the JT Sprockets JTR809.50 with the bolt holes on the wheel hub. Insert the sprocket bolts and hand-tighten them.
6. **Torque Sprocket Bolts:** Refer to your vehicle's service manual for the correct torque specifications for the sprocket bolts. Tighten the bolts in a star pattern to ensure even seating.
7. **Reinstall the Rear Wheel:** Carefully re-mount the rear wheel onto the swingarm, ensuring the chain is properly seated on the new sprocket. Insert the axle and hand-tighten the axle nut.
8. **Adjust Chain Tension:** Adjust the chain tension according to your vehicle's specifications. Ensure proper alignment of the rear wheel.
9. **Torque Axle Nut:** Tighten the axle nut to the manufacturer's specified torque.
10. **Final Check:** Rotate the wheel by hand to ensure smooth operation and proper chain alignment. Verify all fasteners are securely tightened.

## 4. OPERATING CONSIDERATIONS

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Once installed, the sprocket operates as part of your vehicle's drivetrain. Proper operation relies on regular maintenance of the entire chain and sprocket system.

- Ensure the chain is always properly lubricated and tensioned.
- Avoid sudden, harsh acceleration or braking that can put excessive stress on the drivetrain.
- Regularly inspect the sprocket for wear, especially after off-road use or in dusty conditions.

## 5. MAINTENANCE

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Regular maintenance is crucial for extending the life of your JT Sprockets JTR809.50 and ensuring safe operation.

- **Chain Cleaning and Lubrication:** Clean and lubricate your drive chain regularly, typically every 300-500 miles or after riding in wet/dirty conditions. A clean, well-lubricated chain reduces wear on both the chain and sprockets.
- **Sprocket Inspection:** Periodically inspect the sprocket teeth for signs of wear, such as hooked or pointed teeth. Worn sprockets can accelerate chain wear and lead to poor drivetrain performance.
- **Chain Tension Check:** Verify chain tension frequently. An overly tight chain can cause premature wear on sprockets and bearings, while a loose chain can derail.
- **Component Replacement:** It is recommended to replace both the front sprocket, rear sprocket, and chain as a set. Replacing only one component can lead to accelerated wear of the new part due to incompatibility with worn components.

## 6. TROUBLESHOOTING

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This section addresses common issues related to sprockets and the drivetrain.

- **Excessive Noise from Drivetrain:**
  - *Possible Cause:* Dry or dirty chain.
  - *Solution:* Clean and lubricate the chain.
  - *Possible Cause:* Incorrect chain tension.
  - *Solution:* Adjust chain tension to vehicle specifications.
  - *Possible Cause:* Worn sprockets or chain.
  - *Solution:* Inspect and replace worn components.

- **Chain Derailment:**

- *Possible Cause:* Loose chain tension.
- *Solution:* Adjust chain tension.
- *Possible Cause:* Misaligned rear wheel.
- *Solution:* Check and correct rear wheel alignment.
- *Possible Cause:* Severely worn sprockets or chain.
- *Solution:* Replace worn components.

- **Premature Sprocket Wear:**

- *Possible Cause:* Insufficient chain lubrication.
- *Solution:* Increase frequency of chain cleaning and lubrication.
- *Possible Cause:* Incorrect chain tension.
- *Solution:* Ensure chain tension is within specifications.
- *Possible Cause:* Operating with a worn chain.
- *Solution:* Always replace chain and sprockets as a set.

## 7. SPECIFICATIONS

Attribute	Value
Brand	JT Sprockets
Model Number	JTR809.50
Number of Teeth	50
Material	C49 High Carbon Steel
Item Weight	9.6 ounces (approx. 272 grams)
Product Dimensions	8.2 x 8.2 x 5 inches (approx. 20.8 x 20.8 x 12.7 cm)

## 8. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your JT Sprockets JTR809.50, please refer to the official JT Sprockets website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

**Manufacturer:** JT Sprockets

**Website:** [www.jtsprockets.com](http://www.jtsprockets.com) (Note: This is a placeholder link, please verify the official website)

**Contact:** Refer to the manufacturer's website for contact details.