

SHIMANO IGPM9250UPG03

Shimano XTR M9250 Di2 Wireless 12-Speed Drivetrain Upgrade Kit Instruction Manual

Model: IGPM9250UPG03

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Shimano XTR M9250 Di2 Wireless 12-Speed Drivetrain Upgrade Kit. This advanced system is designed for elite-level performance, offering fully wireless electronic shifting for precise and fast gear changes. Please read this manual thoroughly before use to ensure proper function and longevity of your components.

2. WHAT'S IN THE BOX

Your Shimano XTR M9250 Di2 Wireless 12-Speed Drivetrain Upgrade Kit includes the following components:

- Rear Derailleur
- Front Derailleur
- Shifter
- Battery / Charger
- Chain



Image 1: Shimano XTR M9250 Di2 Rear Derailleur (RD-M9250-SGS). This component is central to the 12-speed wireless shifting system, featuring a low-profile SHADOW ES design for protection and Automatic Impact Recovery.



Image 2: Shimano XTR M9250 Di2 Shifter (SW-M9250). This wireless shifter allows for customizable setup with adjustable paddles and programmable controls.



Image 3: Shimano Di2 BT-DN320 Battery and EC-DN100 Charger. The battery powers the system, offering extended ride time, and the compact charger ensures quick recharging.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. If you are unsure about any steps, consult a professional bicycle mechanic.

3.1. Battery Installation and Initial Charge

1. Locate the BT-DN320 battery and EC-DN100 charger.
2. Install the battery into its designated frame location (typically seatpost or downtube, refer to your bike frame's manual). Ensure it is securely seated.
3. Connect the EC-DN100 charger to the battery.
4. Plug the charger into a power outlet. Charge the battery fully before first use. A full charge can provide up to 340 km of ride time.

3.2. Rear Derailleur (RD-M9250-SGS) Installation

1. Attach the RD-M9250-SGS rear derailleur to your bike's derailleur hanger. Ensure the mounting bolt is tightened to the manufacturer's specified torque.
2. Route the chain through the derailleur cage.

3. Connect the Di2 wire from the battery to the rear derailleur. Ensure a secure connection.

3.3. Shifter (SW-M9250) Installation

1. Mount the SW-M9250 shifter to your handlebar in a comfortable and accessible position. Tighten the clamp bolt to the specified torque.
2. The shifter communicates wirelessly with the drivetrain components. No physical cable connection is required between the shifter and the derailleur.

3.4. Initial Pairing and Adjustment

1. Turn on the system (refer to the specific power-on procedure for your Di2 system, usually a button press on the junction box or battery).
2. Initiate the pairing process between the shifter and the rear derailleur. Consult the detailed Shimano Di2 pairing guide for your specific components.
3. Perform initial gear adjustments to ensure smooth and precise shifting across all 12 speeds. This typically involves setting the high and low limits and fine-tuning indexing.
4. For advanced customization and fine-tuning, connect to the Shimano E-TUBE Project app via a compatible device.

4. OPERATING INSTRUCTIONS

The Shimano XTR M9250 Di2 system offers intuitive and precise electronic shifting.

4.1. Shifting Gears

- Use the SW-M9250 shifter paddles to change gears. Typically, one paddle shifts to a harder gear (smaller cog), and the other shifts to an easier gear (larger cog).
- The system provides lightning-fast, ultra-precise gear changes with minimal effort.
- Avoid shifting under extreme load to prolong component life, although the system is designed for robust performance.

4.2. Customization with E-TUBE Project

- Connect your Di2 system to the Shimano E-TUBE Project app (available for PC/Mac and mobile devices).
- **Adjustable Paddles:** Customize the position and feel of the shifter paddles to match your riding style.
- **Programmable Controls:** Assign functions to the four-way paddle and the programmable third button on the shifter for personalized control.
- **Di2 RAPID ES Shifter Modes:** Configure shifting speed and multi-shift options for rapid gear changes.

4.3. Automatic Impact Recovery

The RD-M9250-SGS rear derailleur features Automatic Impact Recovery. In the event of an impact, the derailleur intelligently resets to its optimal position, ensuring consistent shifting performance. After a significant impact, it is advisable to visually inspect the derailleur for any damage and check shifting performance.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Di2 system.

5.1. Cleaning

- Keep your drivetrain components (chain, cassette, derailleurs) clean and lubricated. Use appropriate bike cleaning products.
- Wipe down the derailleurs and shifter with a damp cloth. Avoid high-pressure washing directly on electronic

components.

5.2. Battery Care

- Charge the BT-DN320 battery regularly, especially after long rides or if the charge indicator shows low power.
- Store the battery in a cool, dry place if the bike is not used for extended periods. Avoid extreme temperatures.
- The battery is sealed and internal for maximum safety; do not attempt to open or modify it.

5.3. Firmware Updates

Periodically check for firmware updates using the Shimano E-TUBE Project app. Updates can improve performance, add features, or fix bugs.

5.4. Regular Inspections

- Regularly inspect all components for signs of wear, damage, or loose connections.
- Ensure the derailleur hanger is straight and not bent, as this can affect shifting performance.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Di2 system.

6.1. Shifting Issues

- **No Shifting Response:**
 - Check battery charge level.
 - Ensure all connections are secure (for wired components).
 - Verify shifter and derailleur are paired correctly.
- **Inaccurate Shifting:**
 - Perform fine-tuning adjustments using the E-TUBE Project app or the system's adjustment mode.
 - Check for a bent derailleur hanger.
 - Ensure the chain and cassette are clean and not excessively worn.

6.2. Battery Not Charging

- Ensure the charger is properly connected to the battery and a working power outlet.
- Check the charger cable for damage.
- If the issue persists, the battery or charger may need replacement.

6.3. Wireless Connection Problems

- Ensure no strong electromagnetic interference sources are nearby.
- Re-attempt the pairing process between the shifter and derailleur.
- Check for firmware updates for all components.

For more complex issues, consult the official Shimano Di2 dealer manual or contact Shimano customer support.

7. SPECIFICATIONS

Feature	Detail
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Brand	SHIMANO
Model Name	XTR
Model Number	IGPM9250UPG03
Drivetrain Speed	12-Speed
Derailleur Type	Wireless Di2 Rear Derailleur (RD-M9250-SGS)
Shifter Type	Wireless Shifter (SW-M9250)
Battery	BT-DN320 (Internal, Sealed)
Charger	EC-DN100 (Compact)
Battery Life (Approx.)	Up to 340 km per charge
Cage Size	GS - Medium Cage
Material	Carbon Fiber (for certain components)
Item Weight	2.4 Pounds (total package)
Product Dimensions	17"L x 12"W x 5.5"H (package)
Mounting Type	Clamp-On Mount (for shifter)

8. WARRANTY INFORMATION

This Shimano XTR M9250 Di2 Wireless 12-Speed Drivetrain Upgrade Kit comes with a manufacturer's warranty. The warranty period is **2 Years** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For full details regarding warranty claims, exclusions, and procedures, please refer to the official Shimano warranty policy documentation or contact Shimano customer support.

9. SUPPORT

For additional support, technical assistance, or to explore other Shimano products, please visit the official SHIMANO store or website.

[Visit the SHIMANO Store on Amazon](#)

Always ensure you are using genuine Shimano parts and accessories for optimal performance and safety.