SHIMANO IGPM8250UPG07

Shimano DEORE XT M8250 Di2 Drivetrain Upgrade Kit

Instruction Manual

Introduction Components Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Shimano DEORE XT M8250 Di2 Drivetrain Upgrade Kit. This kit is designed to enhance your cycling experience with precise, wireless electronic shifting and robust durability for challenging trail conditions. It features advanced Di2 technology for accurate gear changes, an Automatic Impact Recovery system to protect the derailleur, and Shadow ES technology for reduced snagging.

2. Kit Components

The Shimano DEORE XT M8250 Di2 Drivetrain Upgrade Kit includes the following main components:

- XT SW-M8250 Rapid ES Wireless Shifter
- Rear Derailleur (specific cage length as purchased)
- Integrated BT-DN320 Battery
- Charging Cable



Figure 1: Shimano XT SW-M8250 Rapid ES Wireless Shifter. This image shows the top view of the wireless shifter with its ergonomic paddles.



Figure 2: Shimano XT SW-M8250 Rapid ES Wireless Shifter, side view. This image displays the side profile of the shifter, highlighting its compact design.

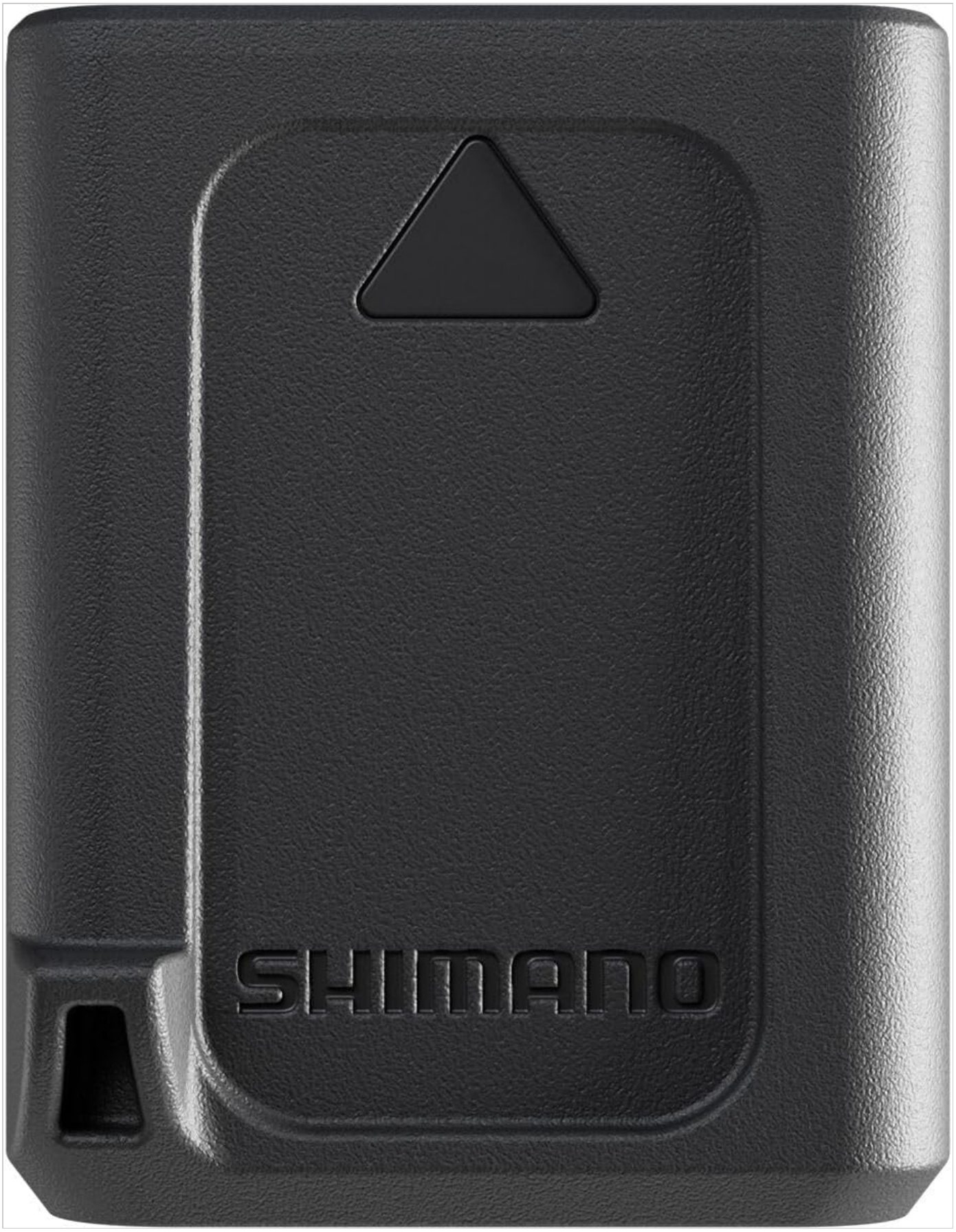


Figure 3: Shimano DEORE XT M8250 Rear Derailleur. This image shows the robust construction of the rear derailleur, designed for trail use.



Figure 4: Shimano BT-DN320 Battery. This image shows the compact, rectangular battery unit with the Shimano logo.



Figure 5: Shimano BT-DN320 Battery with Charging Cable. This image illustrates the battery unit alongside its charging cable, demonstrating how it connects for power.

3. Setup and Installation

Proper installation is crucial for optimal performance and safety. It is recommended that installation be performed by a qualified bicycle mechanic.

3.1 Rear Derailleur Installation

1. Attach the rear derailleur to the derailleur hanger on your bicycle frame. Ensure the mounting bolt is tightened to the manufacturer's specified torque.
2. Route the chain through the derailleur pulleys.
3. Connect the Di2 wire from the derailleur to the BT-DN320 battery.

3.2 Shifter Installation

1. Mount the XT SW-M8250 Rapid ES wireless shifter to your handlebar. Position it for comfortable access.
2. Tighten the clamp bolt securely.

3.3 Battery Installation and Charging

1. Insert the BT-DN320 battery into its designated housing, typically within the rear derailleur body.
2. To charge, connect the charging cable to the battery and a compatible USB power source. The charging indicator will illuminate.
3. A full charge typically takes approximately 1.5-2 hours.

3.4 Initial Pairing and Adjustment

1. Turn on the system by pressing the function button on the rear derailleur.

2. Initiate pairing mode on the shifter and derailleur according to the detailed instructions in the full Shimano Di2 manual.
3. Perform initial gear adjustments using the micro-adjustment function on the shifter to ensure smooth and precise shifting across all gears.

4. Operation

4.1 Shifting Gears

The XT SW-M8250 Rapid ES wireless shifter provides intuitive control over your drivetrain.

- **Up-shift:** Press the upper paddle to shift to a larger cog (easier gear).
- **Down-shift:** Press the lower paddle to shift to a smaller cog (harder gear).
- **Multi-shift:** Hold down a paddle to shift multiple gears simultaneously. The number of gears shifted can be customized via the E-TUBE PROJECT app.

4.2 Automatic Impact Recovery

The M8250 rear derailleur features Automatic Impact Recovery. In the event of an impact, the derailleur is designed to temporarily disengage and then automatically return to its correct position, minimizing damage and maintaining shifting performance.

4.3 Battery Level Check

To check the battery level, briefly press the function button on the rear derailleur. The LED indicator will display the current charge status:

- **Green (Solid):** 100% - 50%
- **Green (Flashing):** 49% - 25%
- **Red (Solid):** 24% - 0% (Charge immediately)

5. Maintenance

5.1 Cleaning

- Regularly clean the derailleur and shifter with a mild detergent and water. Avoid high-pressure washing directly on electronic components.
- Ensure all connections are free from dirt and debris.

5.2 Firmware Updates

Periodically check for firmware updates using the Shimano E-TUBE PROJECT app. Updates can improve performance, add features, and resolve issues.

5.3 Battery Care

- Charge the battery regularly, especially before long rides.
- Avoid fully discharging the battery for extended periods.
- Store the battery in a cool, dry place if not in use for a long time.

6. Troubleshooting

Problem	Possible Cause	Solution
No shifting response	Low battery, disconnected wire, system error, shifter not paired.	Charge battery. Check all connections. Re-pair shifter and derailleur. Consult full Di2 manual.
Inaccurate shifting	Derailleur adjustment needed, bent derailleur hanger, dirty components.	Perform micro-adjustment. Check derailleur hanger alignment. Clean drivetrain components.
Battery not charging	Faulty cable, power source issue, battery fault.	Try a different charging cable and USB power source. Contact Shimano support if issue persists.

For more detailed troubleshooting, refer to the complete Shimano Di2 technical manual or contact a certified Shimano service center.

7. Specifications

Feature	Detail
Model	Shimano DEORE XT M8250 Di2 Drivetrain Upgrade Kit
Part Number	IGPM8250UPG07
Shifting Type	Wireless Di2 Electronic
Rear Derailleur Cage	Medium Cage (specific to kit)
Battery	Integrated BT-DN320 (rechargeable)
Compatibility	Shimano 12-speed cassettes and cranksets
Special Features	Automatic Impact Recovery, Shadow ES Technology, Customizable Shifter Paddles
Weight (Kit)	Approximately 2.79 Pounds
Dimensions (Packaging)	14"L x 10"W x 8"H

8. Warranty and Support

8.1 Warranty Information

This Shimano product is covered by a **Limited Warranty**. For specific terms and conditions, please refer to the warranty documentation included with your product or visit the official Shimano website.
The warranty typically covers manufacturing defects for a specified period from the date of purchase. It does not cover damage resulting from improper installation, misuse, neglect, accidents, or normal wear and tear.

8.2 Customer Support

For technical assistance, service, or warranty claims, please contact your authorized Shimano dealer or visit the official Shimano support website:

- **Shimano Official Website:** bike.shimano.com
- **E-TUBE PROJECT Software:** For firmware updates and customization, download the E-TUBE PROJECT app from the Shimano website or your device's app store.

When contacting support, please have your product model number (IGPM8250UPG07) and proof of purchase readily available.

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Question

Example: How do I reset this device or fix this error?

Details

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Submit question