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## SHIMANO IRDRX825A

# SHIMANO GRX RD-RX825 12-Speed Di2 Rear Derailleur User Manual

Model: IRDRX825A

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your SHIMANO GRX RD-RX825 12-Speed Di2 Rear Derailleur. Please read this manual thoroughly before use to ensure proper function and safety.

The SHIMANO GRX RD-RX825 is designed for fast and reliable shifting, especially in mixed-terrain conditions. It features an integrated wireless unit, charging port, and a SHIMANO SHADOW RD+ chain stabilization system.

## PRODUCT OVERVIEW



**Figure 1:** Front view of the SHIMANO GRX RD-RX825 12-Speed Di2 Rear Derailleur. This image shows the main body of the derailleur, including the GRX branding and the pulley cage.



**Figure 2:** Angled view of the SHIMANO GRX RD-RX825 12-Speed Di2 Rear Derailleur. This perspective highlights the compact design and the various attachment points.

## SETUP AND INSTALLATION

### 1. Compatibility Check

Ensure your bicycle frame and cassette are compatible with a 12-speed Di2 system. This derailleur is compatible with 11-34t and 11-36t 12-speed cassettes.

### 2. Tools Required

- Hex wrenches (various sizes)
- Torque wrench
- Chain tool
- Cable cutters (if applicable for wiring)

- SHIMANO Di2 E-Tube Project software (for firmware updates and customization)

### **3. Mounting the Derailleur**

1. Attach the derailleur to the derailleur hanger on your bike frame.
2. Tighten the mounting bolt to the manufacturer's specified torque.
3. Route the chain through the derailleur pulleys.

### **4. Di2 System Connection**

Connect the Di2 wires to the derailleur's port. Ensure secure connections to prevent water ingress and signal loss. The integrated wireless unit simplifies connectivity.

### **5. Initial Setup and Adjustment**

Perform initial limit screw adjustments (High and Low) and B-tension adjustment. Use the SHIMANO E-Tube Project software for fine-tuning and firmware updates. Refer to the official SHIMANO E-Tube Project manual for detailed software instructions.



**Figure 3:** The SHIMANO GRX RD-RX825 Rear Derailleur installed on a bicycle, showing its integration with the cassette and chain. This image demonstrates the derailleur's position relative to the rear wheel and drivetrain components.

## OPERATING INSTRUCTIONS

### 1. Shifting Operation

The Di2 system provides precise and consistent electronic shifting. Use your compatible Di2 shifters to change gears. The system is designed for quick and reliable shifts even under load.

### 2. SHADOW RD+ Stabilizer

The SHIMANO SHADOW RD+ features a switch stabilizer with an ON/OFF function. This stabilizer helps prevent chain slap and reduces chain drops, especially on rough terrain.

- **ON:** Engage the stabilizer for gravel and rough terrain to minimize chain movement.
- **OFF:** Disengage the stabilizer for smoother roads or when removing the wheel to ease the process.

### 3. Charging the Battery

The derailleur features a built-in charging port. Connect the SHIMANO Di2 charger to this port to recharge the system battery. Refer to the Di2 battery manual for charging indicators and times.

## MAINTENANCE

### 1. Cleaning

Regularly clean the derailleur, especially the pulleys, to remove dirt and grime. Use a mild detergent and water, avoiding high-pressure washing directly on electronic components.

### 2. Lubrication

Lubricate the chain regularly. The derailleur pulleys generally do not require additional lubrication beyond what the chain provides, but ensure they spin freely.

### 3. Firmware Updates

Periodically check for and install firmware updates using the SHIMANO E-Tube Project software. Updates can improve performance and add new features.

### 4. Inspection

Inspect the derailleur for any signs of damage, wear, or loose bolts before each ride. Pay attention to the pulley wheels, cage, and mounting area.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Shifting is slow or inconsistent	Low battery, misaligned derailleur, outdated firmware, dirty components.	Charge battery, check derailleur alignment and limit screws, update firmware, clean derailleur and chain.
Chain drops frequently	SHADOW RD+ stabilizer OFF, worn chain/cassette, incorrect B-tension.	Ensure stabilizer is ON for rough terrain, inspect and replace worn drivetrain components, adjust B-tension.
No power to derailleur	Disconnected wire, dead battery, faulty component.	Check all Di2 connections, charge battery, consult a professional bike mechanic if problem persists.

## SPECIFICATIONS

- **Model Number:** IRDRX825A
- **Series:** GRX Di2 12-Speed
- **Compatibility:** 12-speed drivetrains
- **Cassette Compatibility:** 11-34t, 11-36t
- **Features:** SHIMANO SHADOW RD+, Integrated wireless unit, Charging port
- **Weight:** Approximately 1.1 Pounds (0.5 kg)
- **Color:** Black

## WARRANTY AND SUPPORT

For warranty information and detailed support, please refer to the official SHIMANO website or contact your authorized SHIMANO dealer. Keep your proof of purchase for warranty claims.

**SHIMANO Official Website:** [bike.shimano.com](http://bike.shimano.com)

For technical assistance, it is recommended to consult a certified bicycle mechanic.