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## DAMSON R5 Single Motor Foldable 1000w 48v 20ah Gray

# DAMSON R5 Single Motor Foldable Electric Bike User Manual

Model: R5 Single Motor Foldable 1000w 48v 20ah Gray

Brand: DAMSON

## 1. INTRODUCTION

Welcome to the user manual for your new DAMSON R5 Single Motor Foldable Electric Bike. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

The DAMSON R5 is designed for adults seeking a versatile and powerful electric bike, featuring a 1000W peak motor, 48V 20Ah removable battery, 26-inch fat tires, and full suspension for various terrains.



Figure 1.1: DAMSON R5 Single Motor Foldable Electric Bike

## 2. SAFETY INFORMATION

Your safety is paramount. Always adhere to local traffic laws and regulations. Failure to follow these guidelines may result in serious injury or property damage.

- Always wear a helmet that meets safety standards.
- Perform a pre-ride inspection before each use, checking brakes, tire pressure, and battery level.
- Be aware of your surroundings and ride defensively.
- Avoid riding in adverse weather conditions, such as heavy rain or snow, unless the bike is specifically designed and equipped for such conditions.
- Do not exceed the maximum weight recommendation of 400 pounds.
- Keep hands and feet clear of moving parts, especially the chain and wheels.

- Ensure the battery is securely locked in place before riding.
- Do not modify the bike's electrical system or components.

### **3. SETUP AND INITIAL ASSEMBLY**

Your DAMSON R5 electric bike comes approximately 95% pre-assembled. Final assembly typically involves attaching the front wheel, handlebars, pedals, and seat. Tools for assembly are included.

#### **3.1 Unpacking and Inspection**

- Carefully remove the bike and all components from the packaging.
- Inspect for any shipping damage. Contact customer support immediately if damage is found.
- Verify all included components are present: Electric Bike, Battery, 1x 3A Charger, Kickstand, 1x Tools.

#### **3.2 Battery Charging**

Fully charge the battery before your first ride. The removable 48V 20Ah lithium battery can be charged on or off the bike using the included 3A fast charger. Charging time is typically 4-6 hours.

# Larger Capacity & Stronger Endurance

48V 20AH



40-50 Miles

Pure Electric Mode



50-75 Miles

Assist Mode



4-6 Hours

Fast Charging



BMS

Intelligent Safety

Figure 3.1: Removable 48V 20Ah Battery

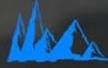
## 3.3 Adjustments

Adjust the seat height and handlebar position for a comfortable and safe riding posture. The handlebar height is adjustable by twisting a screw.

# Easily Handle All Terrains - 26x4.0"



Snow  
Road



Mountain  
Road



Flat  
Road



Beach  
Road



Figure 3.2: Adjustable Handlebar

### 3.4 Folding Mechanism

The R5 features a foldable design for easy storage and transport. To fold the bike, locate the quick-release levers on the frame and handlebar stem. Follow the instructions in the detailed PDF manual for proper folding and unfolding procedures.

# Folding, Portability, Flexibility



Figure 3.3: Folding for Portability

## 4. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and riding modes before operating the bike.

### 4.1 Powering On/Off and Display

Press and hold the power button on the intelligent LCD display to turn the bike on or off. The display shows real-time speed, battery level, pedal assist level, mileage, and other vital statistics. It also includes a USB charging port for your devices.

### 4.2 Riding Modes

The DAMSON R5 offers 5 working modes:

- **E-bike Mode:** Pure electric power using the throttle.
- **Pedal Assist Mode:** Motor provides assistance as you pedal.

- **Normal Bike Mode:** Ride like a traditional bicycle without motor assistance.
- **Cruise Control:** Maintains a set speed without continuous throttle input.
- **Walk Booster:** Provides low-speed assistance for walking the bike.

#### 4.3 Motor and Performance

The R5 is equipped with a 750W upgraded brushless geared hub motor, capable of 1000W peak power, reaching speeds over 30 mph with a max torque up to 85N/m. This powerful motor enhances hill climbing and off-road capability.

**1000W Peak Powerful Motor**  
**750W Average Brushless motor**

**30 MPH**  
MAX SPEED

**90 N.M**  
Torque

**30-40°**  
Gradeability

Figure 4.1: 1000W Peak Powerful Motor

#### 4.4 Suspension System

The dual suspension system, including an adjustable front fork alloy hydraulic lockout suspension and rear suspension, reduces bumps by 80% for a comfortable ride on various terrains.

# Full Suspension System

Reduces bumps by 80% when riding on rough roads

# 80% ↑



Figure 4.2: Full Suspension System

## 4.5 Braking System

The 160mm dual hydraulic disc brakes provide superior stopping power in all conditions, ensuring safety and control.

## 4.6 Lighting

The bike is equipped with an 800lm super bright LED headlight and an integrated taillight indicator to enhance visibility and safety, especially during night rides.

## ADJUSTABLE HANDLEBAR HEIGHT BY TWISTING THE SCREW



Figure 4.3: Super Bright Headlight and Integrated Taillight

### 4.7 Riding Video

Watch the official product video to see the DAMSON R5 in action, demonstrating its capabilities on various terrains.

Video 4.1: Forge your path to explore with the DAMSON R5 Electric Bike.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your electric bike.

### 5.1 Routine Checks (Before Each Ride)

- **Brakes:** Test front and rear brakes for proper function and responsiveness.
- **Tires:** Check tire pressure (26"x4" fat tires) and inspect for wear or damage.
- **Fasteners:** Ensure all bolts, nuts, and quick releases are securely tightened.

- **Battery:** Verify battery is fully charged and securely seated.
- **Lights:** Confirm headlight and taillight are working.

## 5.2 Cleaning and Storage

- Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- Store the bike in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery to 50-70% and recharge every 1-2 months.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, please contact customer support.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not connected; loose wiring.	Charge battery; ensure battery is properly seated; check all cable connections.
Motor not assisting	Pedal Assist System (PAS) level is 0; brake levers engaged; motor connection issue.	Increase PAS level on display; release brake levers; check motor cable connection.
Brakes feel weak	Brake pads worn; air in hydraulic lines.	Inspect and replace brake pads if necessary; consult a professional for hydraulic brake bleeding.
Unusual noises	Loose components; chain issues; suspension squeak.	Check all fasteners; lubricate chain; inspect suspension components.

## 7. SPECIFICATIONS

Detailed technical specifications for the DAMSON R5 Electric Bike.

Feature	Specification
Bike Type	Full Suspension Ebike, Mountain Electric Bike, Cruiser E Bike
Motor	750W Upgraded Brushless Geared Hub Motor (1000W Peak)
Max Torque	85 N.m
Battery	48V 20Ah Removable Lithium Battery
Pure Electric Range	Up to 50 miles
Pedal Assist Range	Up to 75 miles
Charger	3A Fast Charger

Feature	Specification
Wheel Size	26 Inches (26"x4" Fat Tires)
Frame Material	Aluminum
Suspension Type	Dual (Front Hydraulic Lockout, Rear Suspension)
Brake Style	Dual Hydraulic Disc Brakes (160mm)
Number of Speeds	7 (Shima 7-speed)
Max Load Capacity	400 Pounds
Item Weight	74 LBS (Battery Only 8.5LBS)
Recommended Height	5'4"-6'5"
Dimensions (L x H)	79.5 inches x 43.3 inches (unfolded)



Figure 7.1: Key Dimensions of the DAMSON R5

## 8. WARRANTY AND SUPPORT

DAMSON provides comprehensive support for your electric bike.

### 8.1 Warranty Information

Your DAMSON R5 Electric Bike comes with a **2-year warranty** for the electric motor, battery, and charger. Please retain your original packaging and proof of purchase for warranty claims.

### 8.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your DAMSON R5, please contact our customer support team. We offer lifelong technical support to ensure your satisfaction.

You can also refer to the official PDF User Manual for more detailed instructions [Download PDF User Manual](#)