SachsenRAD F11 MagPuma

SachsenRAD E-Folding Race Bike F11 MagPuma User Manual

Model: F11 MagPuma (BB12163)

Brand: SachsenRAD

1. Introduction

This manual provides essential instructions for the safe and efficient operation, assembly, and maintenance of your SachsenRAD E-Folding Race Bike F11 MagPuma. Please read this manual thoroughly before using your e-bike to ensure proper function and longevity.

The F11 MagPuma features a lightweight, single-cast magnesium frame, a powerful 250W rear hub motor, and a triple folding mechanism for convenient transport and storage. It is equipped with a quality Shimano derailleur and mechanical disc brakes.

2. Important Safety Information

Always prioritize safety when operating your e-bike.

- Wear a helmet and appropriate safety gear at all times.
- Ensure all components are securely fastened before each ride.
- Familiarize yourself with local traffic laws and regulations for e-bikes.
- Perform regular brake checks and ensure tires are properly inflated.
- Do not operate the e-bike under the influence of alcohol or drugs.
- Avoid riding in adverse weather conditions or on slippery surfaces.
- Keep hands and feet clear of moving parts, especially during folding/unfolding.

3. Product Components Overview

The SachsenRAD F11 MagPuma is designed for portability and performance. Key components include:

- **Magnesium Frame:** Lightweight and durable, designed for folding.

- **20-inch Wheels:** Compact size for urban environments and easy storage.
- **250W Rear Hub Motor:** Provides electric pedal assistance up to 25 km/h.
- **Integrated Battery:** Removable for charging, offering a range of up to 80 km.
- **Shimano 6-Speed Derailleur:** For versatile riding on various terrains.
- **Mechanical Disc Brakes:** Front and rear for reliable stopping power.
- **Folding Mechanism:** Triple folding design for compact storage.
- **Transport Bag:** Included for convenient carrying of the folded bike.



Figure 1: The SachsenRAD F11 MagPuma E-Folding Race Bike in its unfolded state. This image displays the full profile of the bike, highlighting its magnesium frame, 20-inch wheels, and overall design.

4. Setup and Initial Assembly

Your SachsenRAD F11 MagPuma comes largely pre-assembled. Follow these steps for final setup:

1. **Unpacking:** Carefully remove the bike from its packaging. Retain packaging for future transport or storage.
2. **Unfolding the Frame:**
    - Release the main frame folding buckle.

- Extend the frame until it locks into place. Ensure the buckle is securely fastened.

3. **Handlebar Setup:**
   - Raise the handlebar stem and secure the quick-release lever.
   - Adjust the handlebar height to a comfortable riding position and tighten.
4. **Seat Post Adjustment:**
   - Insert the seat post into the frame.
   - Adjust the seat height for proper leg extension (slight bend in the knee at the bottom of the pedal stroke).
   - Secure the quick-release clamp firmly.
5. **Pedal Installation:**
   - Identify left (L) and right (R) pedals.
   - Thread the right pedal clockwise into the right crank arm.
   - Thread the left pedal counter-clockwise into the left crank arm.
   - Tighten both pedals securely with a wrench.
6. **Battery Installation & Initial Charge:**
   - Insert the battery into its designated slot in the frame. Ensure it clicks into place.
   - Connect the charger to the battery and a power outlet.
   - Charge the battery fully before the first use (refer to battery indicator for status).
7. **Tire Inflation:** Inflate tires to the recommended pressure indicated on the tire sidewall.
8. **Brake Check:** Test both front and rear brakes to ensure they engage properly and stop the bike effectively.



Figure 2: This image illustrates the patented folding buckle and the compact design of the SachsenRAD F11 MagPuma. The buckle prevents unintended unfolding during rides, and the bike's design allows for folding at the frame, handlebar, and pedals for easy storage.

5. Operating Instructions

5.1 Powering On/Off

Locate the power button on the control panel (usually on the handlebar). Press and hold to turn the e-bike system on or off. The display will show battery level and assist mode.

5.2 Electric Pedal Assist

The F11 MagPuma features a pedal-assist system. The motor provides assistance only when you are pedaling. You can select different assist levels (e.g., 1-3 or 1-5) using the control panel buttons. Higher levels provide more motor power and speed, while lower levels conserve battery life.

- **Level 1:** Minimal assistance, maximum range.

- **Level 3:** Balanced assistance for general riding.
- **Level 5:** Maximum assistance for hills or faster speeds.

The 250-watt rear hub motor is designed for discreet and hidden integration. An innovative sensor system recognizes terrain conditions and adjusts motor performance accordingly, providing powerful assistance up to 25 km/h.



Figure 3: Detailed view of the SachsenRAD F11 MagPuma's rear wheel, showcasing the powerful 250-watt rear hub motor, the Shimano 6-speed gear system, and the mechanical disc brake.

5.3 Gear Shifting

Your e-bike is equipped with a Shimano 6-speed derailleur. Use the shifter on the handlebar to change gears. Shift to lower gears for climbing hills and higher gears for flat terrain or downhill riding. Shift smoothly to avoid strain on the drivetrain.

5.4 Braking

The F11 MagPuma uses mechanical disc brakes on both the front and rear wheels. Apply both brakes simultaneously and

gradually for controlled stopping. Avoid sudden, hard braking, especially at high speeds or on loose surfaces.

5.5 Folding and Transporting

The triple folding technology allows for quick and compact storage. To fold your bike:

1. Lower the seat post completely.
2. Fold the pedals inward (if foldable).
3. Release the handlebar stem quick-release and fold the handlebar down.
4. Release the main frame folding buckle and fold the frame in half. The magnetic holder helps prevent unintended unfolding during transport.
5. Once folded, the bike can be placed in the included transport bag for easy carrying or stored in a car trunk, train, or office.



Figure 4: A person carrying the folded SachsenRAD F11 MagPuma e-bike at a train station, demonstrating its portability for commuting.



Figure 5: The folded SachsenRAD F11 MagPuma e-bike neatly stored in the trunk of a car, illustrating its compact size for transport.



Figure 6: The SachsenRAD F11 MagPuma e-bike stored within its dedicated transport bag, highlighting the convenience for carrying.

6. Maintenance and Care

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

- **Cleaning:** Wipe the frame with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Lubrication:** Regularly lubricate the chain and other moving parts with bicycle-specific lubricant.
- **Tires:** Check tire pressure before each ride. Inspect tires for wear and damage.
- **Brakes:** Check brake pads for wear and replace as needed. Ensure brake levers are responsive.
- **Battery Care:**
  - Charge the battery regularly, even if not in use, to maintain its health.
  - Store the battery in a cool, dry place.
  - Avoid fully discharging the battery frequently.
- **Fasteners:** Periodically check all bolts and screws for tightness.

7. Troubleshooting

This section addresses common issues you might encounter with your F11 MagPuma.

Problem	Possible Cause	Solution
E-bike does not power on.	Battery is not charged or not properly installed.	Ensure battery is fully charged and securely seated in the frame. Check connections.
Motor not providing assistance.	Assist level is set to zero, battery low, or sensor issue.	Increase assist level. Check battery charge. Ensure pedals are rotating.
Brakes feel weak or noisy.	Worn brake pads, misaligned calipers, or contaminated rotors.	Inspect brake pads and replace if worn. Clean rotors. Adjust caliper alignment. Consult a bike mechanic if unsure.
Gears are skipping or not shifting smoothly.	Derailleur out of adjustment, bent hanger, or dirty chain.	Clean and lubricate the chain. Check derailleur alignment. Adjust gear cables. Professional adjustment may be required.
Reduced battery range.	Under-inflated tires, high assist level usage, cold weather, or aging battery.	Ensure tires are properly inflated. Use lower assist levels. Charge battery fully. Battery capacity naturally decreases over time.

8. Technical Specifications

Feature	Detail
Model	F11 MagPuma (BB12163)
Brand	SachsenRAD
Frame Material	Magnesium
Bike Type	Folding E-Bike
Wheel Size	20 Inches

Feature	Detail
Motor Power	250 Watts (Rear Hub Motor)
Max Speed (Assisted)	Up to 25 km/h
Battery Type	Lithium-ion (Integrated, Removable)
Estimated Range	Up to 80 km (depending on assist level, terrain, rider weight)
Gears	Shimano 6-Speed
Brakes	Mechanical Disc Brakes (Front & Rear)
Suspension	None
Weight	Approximately 19 kg
Dimensions (Unfolded)	152 x 108 x 65 cm (L x H x W)
Included Components	Bike, Battery, Charger, Transport Bag, Kickstand

9. Warranty and Support

For detailed warranty information, please refer to the official SachsenRAD website or the warranty card included with your purchase. Keep your proof of purchase for any warranty claims.
For technical support, spare parts, or service inquiries, please contact SachsenRAD customer service through their official channels. Contact information can typically be found on the manufacturer's website or in your product documentation.

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