

SachsenRAD BB12191

SachsenRAD Foldable Electric Bike F12.16" User Manual

Model: BB12191

1. IMPORTANT SAFETY INFORMATION

Read this manual thoroughly before operating the SachsenRAD F12.16" Foldable Electric Bike. Failure to follow instructions can result in serious injury or property damage. Keep this manual for future reference.

- **Helmet Use:** Always wear a certified helmet when riding.
- **Local Regulations:** Adhere to all local traffic laws and regulations regarding electric bikes.
- **Pre-Ride Check:** Before each ride, inspect brakes, tires, battery level, and ensure all quick releases are securely fastened.
- **Weather Conditions:** Exercise caution when riding in wet conditions. Braking distance may increase.
- **Weight Limit:** Do not exceed the maximum weight capacity of the bike.
- **Folding Mechanism:** Ensure the folding mechanism is fully engaged and locked before riding.
- **Battery Safety:** Do not attempt to open or modify the battery pack. Use only the provided charger.

2. PRODUCT OVERVIEW

The SachsenRAD F12.16" is a lightweight, foldable electric bike designed for urban commuting and leisure. It features a magnesium frame, 16-inch wheels, and three driving modes.



Figure 2.1: The SachsenRAD F12.16" Electric Bike in its fully unfolded state, showcasing its compact design and lagoon blue color.



Figure 2.2: Two SachsenRAD F12.16" Electric Bikes, one unfolded and one in its compact folded configuration, demonstrating its portability.

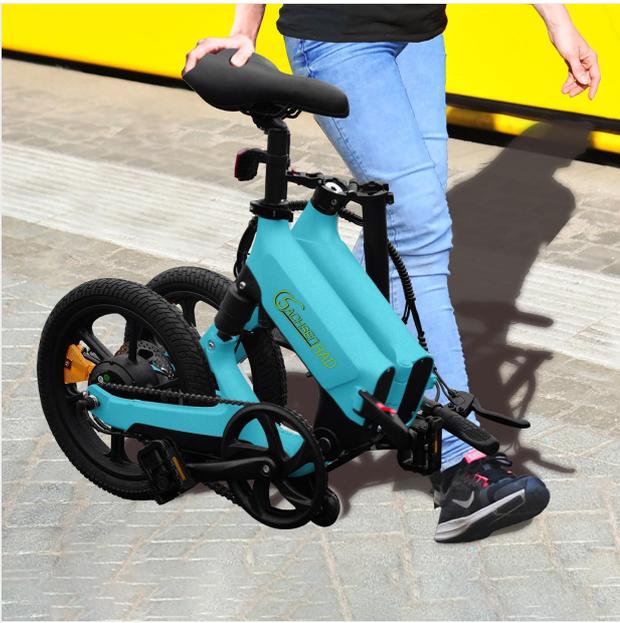


Figure 2.3: A person easily transporting the SachsenRAD F12.16" Electric Bike in its folded state, highlighting its lightweight and portable design.

Key Components:

- **Magnesium Frame:** Lightweight and durable.
- **16-inch Wheels:** Compact for urban environments.
- **Disc Brakes:** For reliable stopping power.
- **Integrated Motor:** Seamlessly integrated for assistance.
- **Telescopic Saddle Support:** 2-step adjustable for various rider heights.
- **Rear Suspension:** Enhances ride comfort.
- **Folding Mechanism:** Single-click folding for portability.

3. SETUP AND ASSEMBLY

The SachsenRAD F12.16" comes largely pre-assembled. Follow these steps for initial setup:

1. Unfolding the Bike:

- Place the folded bike on a flat surface.
- Locate the main frame hinge release lever.
- Carefully unfold the frame until it locks into place. Ensure the safety latch is engaged.
- Unfold the handlebars and secure the stem latch.

2. Adjusting Saddle Height:

- Open the quick-release lever on the seat post.
- Adjust the saddle to a comfortable height, ensuring your leg has a slight bend at the knee when the pedal is at its lowest point.
- Close the quick-release lever securely. The F12.16 features a 2-step telescopic saddle rail for extended adjustment.

3. Inflating Tires:

- Check the recommended tire pressure (PSI) on the tire sidewall.

- Inflate tires using a suitable pump.

4. Battery Charging:

- Before first use, fully charge the battery.
- Connect the charger to the bike's charging port and then to a power outlet.
- The indicator light on the charger will change when charging is complete.

4. OPERATING INSTRUCTIONS

The SachsenRAD F12.16" offers three driving modes for versatile riding.

4.1 Powering On/Off

- **To Power On:** Press and hold the power button on the control panel (usually located on the handlebars) for a few seconds.
- **To Power Off:** Press and hold the power button again until the display turns off.

4.2 Driving Modes

Switch between modes using the mode selection button on the control panel.

- **Mode 1: Pedal Assist (Low)**
Provides minimal motor assistance, ideal for light exercise or extending battery range. You must pedal for the motor to engage.
- **Mode 2: Pedal Assist (Medium)**
Offers moderate motor assistance, suitable for general commuting and slight inclines. Requires pedaling.
- **Mode 3: Pedal Assist (High)**
Delivers maximum motor assistance, perfect for tackling steep hills or when you desire less effort. Requires pedaling.

4.3 Braking

The bike is equipped with disc brakes for effective stopping. Apply both brake levers simultaneously for balanced braking. Practice braking in a safe area before riding in traffic.

4.4 Folding the Bike

The single-click folding mechanism allows for quick and easy storage or transport.

1. Ensure the bike is powered off.
2. Lower the saddle to its lowest position.
3. Locate and release the main frame hinge safety latch, then the main hinge lever.
4. Fold the frame in half.
5. Fold down the handlebars and pedals if applicable.
6. Secure any folding clamps or straps to keep the bike compact.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your SachsenRAD F12.16" electric bike.

- **Cleaning:**
Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components or

bearings. Do not use harsh chemicals.

- **Lubrication:**

Lubricate the chain periodically with bicycle chain lubricant, especially after riding in wet conditions. Wipe off excess lubricant.

- **Brakes:**

Check brake pads for wear and replace them when necessary. Ensure brake levers have proper tension and responsiveness.

- **Tires:**

Maintain correct tire pressure as indicated on the tire sidewall. Inspect tires for cuts, punctures, or excessive wear.

- **Battery Care:**

Store the battery in a cool, dry place. If storing for extended periods, charge the battery to 50-70% every 2-3 months to maintain its health. Avoid fully discharging the battery frequently.

- **Fasteners:**

Periodically check all bolts, nuts, and quick releases to ensure they are tight and secure.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your SachsenRAD F12.16" electric bike.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is discharged or not properly connected.	Charge the battery fully. Ensure the battery is securely seated in its compartment.
Motor not providing assistance.	Battery low, pedal assist level too low, or brake levers are engaged.	Check battery level. Increase pedal assist level. Ensure brake levers are fully released.
Brakes feel spongy or ineffective.	Brake pads worn, cable loose, or air in hydraulic system (if applicable).	Inspect brake pads for wear and replace if needed. Adjust brake cable tension. For hydraulic brakes, professional service may be required.
Unusual noises from the bike.	Loose components, dry chain, or worn bearings.	Check all bolts and nuts for tightness. Lubricate the chain. If noises persist, consult a qualified bike technician.

7. SPECIFICATIONS

Detailed technical specifications for the SachsenRAD F12.16" Foldable Electric Bike.

Feature	Detail
Model Number	BB12191
Frame Material	Magnesium
Wheel Size	16 inches
Bike Type	Multi-Use Bike, Electric Bike

Feature	Detail
Brake Type	Disc
Suspension	Rear
Driving Modes	3 Pedal Assist Modes
Foldable	Yes, single-click mechanism
Adjustable Saddle	2-step telescopic saddle rail
Product Dimensions (Unfolded)	152 x 108 x 65 cm
Item Weight	19 kg (41.8 lbs)
Color	Lagoon Blue
Included Components	Instruction Manual

8. WARRANTY AND SUPPORT

SachsenRAD provides a limited warranty for the F12.16" Foldable Electric Bike against manufacturing defects. Please refer to the warranty card included with your purchase for specific terms and conditions, including warranty period and coverage details.

For technical support, spare parts, or warranty claims, please contact SachsenRAD customer service through the following channels:

- **Online Support:** Visit the official SachsenRAD website for FAQs and support contact forms.
- **Email:** Refer to your purchase documentation for the customer service email address.
- **Phone:** Refer to your purchase documentation for the customer service phone number.

When contacting support, please have your model number (BB12191) and proof of purchase readily available.



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