

VARUN C20-1 PRO

VARUN C20-1 PRO 20-inch Folding Electric Bicycle User Manual

Model: C20-1 PRO

1. INTRODUCTION

Thank you for choosing the VARUN C20-1 PRO 20-inch Folding Electric Bicycle. This manual contains important information regarding the safe assembly, operation, maintenance, and troubleshooting of your e-bike. To ensure your safety and prolong the lifespan of your bicycle, please read this manual carefully before your first ride and keep it for future reference.

2. SAFETY INFORMATION

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Familiarize yourself with local traffic laws and regulations regarding electric bicycles. Avoid riding in adverse weather conditions or on uneven terrain without proper caution.

- Always wear a certified helmet.
- Ensure all components are securely fastened before each ride.
- Do not exceed the maximum recommended weight of 100 kg.
- Be aware of your surroundings and ride defensively.
- Avoid riding under the influence of alcohol or drugs.
- Regularly check tire pressure, brakes, and battery charge.

3. PRODUCT OVERVIEW

The VARUN C20-1 PRO is a versatile 20-inch folding electric bicycle designed for urban commuting and leisure. It features a powerful motor, a long-lasting removable battery, and a convenient folding design.

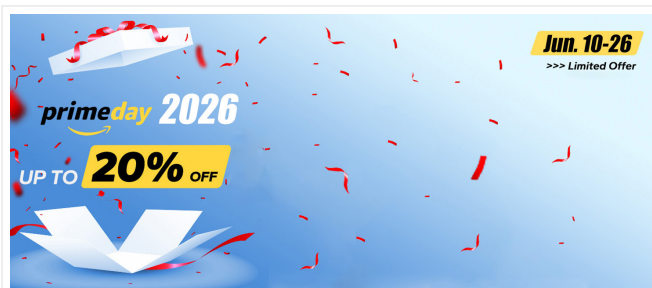


Image: The VARUN C20-1 PRO Folding Electric Bicycle in its full form.



Image: Close-up of the handlebar with LCD display, gear shifter, front suspension, and LED headlight.

Key Features:

- **Long-lasting Removable Battery:** 48V 13Ah (624Wh) battery offering 60-100 km range, 4-6 hours charging time, and IP54 waterproof rating.
- **Powerful Motor:** 250W brushless motor with a maximum speed of 25 km/h and ability to climb inclines up to 30 degrees.
- **Versatile Riding Modes:** 7-speed gear system combined with 3 riding modes: Pedal Assist, Boost, and Pedal Only.
- **Enhanced Safety:** Front suspension for shock absorption, bright LED headlight, and intelligent LCD display for clear riding data.
- **Convenient Folding Design:** Quick 3-second folding mechanism for easy storage and transport.

Components Included:

The VARUN C20-1 PRO arrives 85% assembled. The package includes:

- VARUN C20-1 PRO E-bike
- Mudguard
- User Manual
- LCD Meter
- Battery
- Charger
- Saddle
- Pedals

- Rear Light
- Tool Kit (Phillips screwdriver, wrench, Allen key)

4. SETUP AND ASSEMBLY

Your VARUN C20-1 PRO electric bicycle is 85% pre-assembled. Follow these steps to complete the assembly and prepare for your first ride.

4.1 Unfolding the Bicycle

Carefully remove the bicycle from its packaging. Locate the folding mechanism on the frame and handlebar stem. Release the safety latches and unfold the frame and handlebar until they lock securely into place. Ensure all quick-release levers are tightened.



Image: Illustrated steps for folding and unfolding the bicycle frame.



Image: A man demonstrating how to store the folded e-bike in a car trunk.

4.2 Installing Pedals and Saddle

1. **Pedals:** Identify the left (L) and right (R) pedals. The left pedal screws counter-clockwise, and the right pedal screws clockwise. Apply a small amount of grease to the threads and tighten them firmly with a wrench.
2. **Saddle:** Insert the seat post into the frame's seat tube. Adjust the saddle height to a comfortable position where your feet can touch the ground when stopped. Secure the seat post with the quick-release clamp.

4.3 Initial Battery Charge

Before your first ride, fully charge the battery. Refer to the "Battery Management" section for detailed charging instructions.

5. OPERATING INSTRUCTIONS

Understand how to operate your VARUN C20-1 PRO for an optimal riding experience.

5.1 Powering On/Off

To power on the e-bike, press and hold the power button on the LCD display. To power off, press and hold the same button until the display turns off.

5.2 LCD Display Functions

The intelligent LCD display provides real-time information:

- Current Speed
- Battery Level
- Assistance Level (1-3)
- Trip Distance
- Total Distance
- Headlight Indicator

Use the buttons on the display to cycle through information and adjust assistance levels.



Image: Detailed view of the LCD display and front LED headlight.

5.3 Riding Modes

The VARUN C20-1 PRO offers three distinct riding modes:

1. **Pedal Assist Mode:** The motor provides assistance as you pedal. Adjust the assistance level (1-3) via the LCD display.
2. **Boost Mode:** Provides maximum motor assistance, ideal for climbing hills or quick acceleration.
3. **Pedal Only Mode:** The motor is disengaged, and the bicycle functions as a traditional pedal bike.

3 Modalità

7 modalità di velocità per un controllo preciso con un semplice tocco



Pedal Assist



Modalità Bici



Modalità Boost



Image: A rider enjoying the VARUN C20-1 PRO in pedal assist mode.

5.4 Gear Shifting

The 7-speed gear system allows you to adapt to various terrains and riding conditions. Use the trigger shifter on the handlebar to change gears smoothly. Shift to a lower gear for climbing and a higher gear for speed on flat surfaces.



Image: Close-up of the 7-speed gear system on the rear wheel.

5.5 Braking System

The e-bike is equipped with front and rear dual disc brakes for reliable stopping power. Squeeze both brake levers simultaneously for effective and controlled braking. Test your brakes before each ride.

6. BATTERY MANAGEMENT

Proper battery care ensures optimal performance and longevity.

6.1 Battery Removal and Installation

The 48V 13Ah battery is removable for convenient charging or storage. Use the provided key to unlock and slide the battery out of its compartment. To reinstall, align the battery with the rails and slide it in until it locks securely. Always ensure the battery is locked before riding.



Image: The removable 48V 624Wh battery being charged while detached

from the bike.



Image: Illustrated steps showing how to remove and install the battery.

6.2 Charging Procedure

1. Connect the charger to a standard power outlet.
2. Connect the charger's output plug to the battery's charging port. The battery can be charged while installed on the bike or removed.
3. The indicator light on the charger will show the charging status (usually red for charging, green for fully charged).
4. Charging typically takes 4-6 hours for a full charge. Do not overcharge.
5. Disconnect the charger once charging is complete.

6.3 Battery Care

- Store the battery 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 2-3 months.
- Do not expose the battery to water or moisture beyond its IP54 rating.
- Only use the original charger provided with your e-bike.

7. MAINTENANCE

Regular maintenance is crucial for the performance, safety, and longevity of your VARUN C20-1 PRO.

7.1 General Cleaning

Clean your e-bike regularly with a damp cloth and mild soap. Avoid using high-pressure washers directly on electrical components, motor, or battery.

7.2 Brake System

- Inspect brake pads for wear and replace them if necessary.
- Check brake cables for fraying or damage.
- Ensure brake levers are firm and responsive. Adjust cable tension if brakes feel loose.



Freno a Doppio Disco Sensibile

Freni a doppio disco per frenate rapide e sicure e un'eccellente stabilità. Guida in tutta sicurezza e frena in modo fluido per una maggiore sicurezza in ogni situazione.

Image: Close-up of the dual disc brake system on the VARUN C20-1 PRO.

7.3 Tires

- Check tire pressure before each ride. Recommended pressure is usually indicated on the tire sidewall.
- Inspect tires for cuts, punctures, or excessive wear.

7.4 Chain and Drivetrain

- Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- Check the chain for proper tension and adjust if too loose or tight.

7.5 Bolts and Fasteners

Periodically check all bolts, nuts, and quick-release levers for tightness. Loose components can affect safety and performance.



Forcella Anteriore Aggiornata Sospensione

Affrontate le strade più impervie con facilità! La nostra avanzata forcella a sospensione anteriore assicura una guida sempre fluida e confortevole.

Image: Detailed view of the front suspension fork.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your VARUN C20-1 PRO. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
E-bike does not power on	Battery not charged or not properly installed; loose electrical connection.	Ensure battery is fully charged and securely locked in place. Check all visible cable connections.
Motor not assisting	Low battery; assistance level set to 0; sensor issue.	Charge battery. Increase assistance level on the LCD display. Check for any visible damage to sensors.
Brakes feel weak or noisy	Worn brake pads; loose brake cables; dirty rotors.	Inspect and replace brake pads. Adjust brake cable tension. Clean brake rotors with a suitable cleaner.
Difficulty shifting gears	Derailleur out of adjustment; dirty or dry chain.	Clean and lubricate the chain. Adjust derailleur settings (consult a bike mechanic if unsure).
Battery range is shorter than expected	Riding conditions (hills, headwind); high assistance level usage; low tire pressure; battery age.	Maintain proper tire pressure. Use lower assistance levels when possible. Ensure full charge before each ride.

9. SPECIFICATIONS

Detailed technical specifications for the VARUN C20-1 PRO Folding Electric Bicycle.

Feature	Specification
Model Name	C20-1 Pro
Type	Folding Electric Bicycle
Brand	VARUN
Wheel Size	20 Inches
Frame Material	High-Carbon Steel
Motor Power	250 Watts
Battery	48V 13Ah (624Wh) Removable Lithium Battery
Charging Time	4-6 Hours
Max Range	60-100 km
Max Speed	25 km/h
Number of Speeds	7
Braking System	Dual Disc Brake
Suspension Type	Front Suspension
Item Weight	25.5 kg
Max Recommended Weight	100 kg
Minimum User Height	150 cm

Feature	Specification
Special Features	Folding, Portable, Rechargeable, Multi-speed, Dual Disc Brake

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The VARUN C20-1 PRO Folding Electric Bicycle comes with a **1-year limited warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship. It does not cover damage due to misuse, accidents, normal wear and tear, or unauthorized modifications.

10.2 Customer Support

If you have any questions, concerns, or require assistance with your VARUN e-bike, please do not hesitate to contact our customer service team. We are committed to responding to your inquiries within 24 hours. For support, please visit the VARUN store on Amazon or refer to the contact information provided in your purchase documentation.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question