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› VARUN Xplorer Raptor Electric Bike User Manual

VARUN X-plorer Raptor 48v 20.8ah

VARUN Xplorer Raptor Electric Bike User Manual

Model: X-plorer Raptor 48v 20.8ah

1. PRODUCT OVERVIEW

The VARUN Xplorer Raptor is a robust electric bike designed for adults, offering powerful performance and versatility across various terrains. Featuring a peak 1000W motor and a long-range battery, it provides an exhilarating and comfortable riding experience.



Image: The VARUN Xplorer Raptor Electric Bike, showcasing its sturdy frame and fat tires.

2. WHAT'S IN THE BOX

Upon unboxing your VARUN Xplorer Raptor Electric Bike, you should find the following components:

- 1 x VARUN Xplorer Raptor Electric Bike (90% pre-assembled)
- 1 x User Manual
- 1 x Charger (54V 2A)
- 1 x Tool Kit

Please inspect all items for any damage or missing parts immediately after opening the package. Contact customer support if any issues are found.

3. KEY FEATURES

- **Powerful 750W Motor (Peak 1000W):** Achieves speeds up to 28 MPH (45 km/h) with ease, suitable for various terrains. Features three riding modes: pure electric, pedal assist, and manual.
- **Long-Lasting 48V 20.8Ah Battery:** High-capacity lithium-ion battery with protective housing, fully charging in 5–6 hours. Provides a riding range of 37–60 miles (60–95 km) in pedal-assist mode.
- **All-Terrain Design:** Constructed with a reinforced carbon steel frame and equipped with 20" x 4.0" ultra-wide fat tires for superior traction on sand, snow, and mud. Dual front and rear spring suspension absorbs shocks for a stable and comfortable ride.
- **Enhanced Safety Features:** Equipped with front and rear mechanical disc brakes for consistent and responsive stopping power. High-intensity LED headlight, taillight, and integrated turn signals improve visibility and rider awareness.
- **Comfortable Control:** A 7-speed drivetrain allows for smooth cadence adjustment, reducing rider fatigue. Ergonomic design ensures a stable and comfortable riding position for longer journeys.
- **Easy Assembly & Dedicated Support:** The bike arrives 90% pre-assembled for quick setup. Includes a one-year warranty and 24/7 customer support.

4. SPECIFICATIONS

Bike Type	Electric Bike
Age Range	Adult
Brand	VARUN
Number of Speeds	7
Color	Black
Wheel Size	20 Inches
Frame Material	Carbon Steel
Suspension Type	Dual
Motor	750W (Peak 1000W)
Battery	48V 20.8Ah Lithium-Ion
Brake Style	Disc (Mechanical)
Max Speed	28 MPH
Range (Pedal Assist)	37–60 Miles

5. SETUP AND ASSEMBLY

Your VARUN Xplorer Raptor Electric Bike comes 90% pre-assembled. Follow these steps to complete the assembly:

1. **Unboxing:** Carefully remove the bike and all components from the packaging.
2. **Front Wheel Installation:** Connect the front wheel to the fork, ensuring the brake rotor aligns correctly with the caliper. Secure the wheel with the provided hardware.

3. **Fender Installation:** Remove the three screws holding the fender in place, position the fender, align the screw holes, and tighten the screws.
4. **Handlebar Adjustment:** Loosen the screws that hold the handlebars. Install the handlebars, adjust to your preferred angle, and tighten the screws securely.
5. **Display Connection:** Unplug the meter connections, unscrew the meter from its temporary position, install it on the handlebar, re-secure the screws, and finally reconnect the meter plug.
6. **Headlight Assembly:** Pre-assemble the headlight by securing the snaps on one side, then attach the other side. Connect the corresponding cables.
7. **Headlight Installation:** Place the assembled headlight in the position shown, installing the tabs on the other side to secure it. Connect the corresponding cable.
8. **Taillight Installation:** Remove the screws from the taillight, place it in the correct position, align the screw holes, and re-secure the screws. Connect the taillight cables and check the lights.
9. **Basket Installation (Optional):** Remove the fixing screws, place the basket in the corresponding position, and retighten the screws.
10. **Pedal Installation:** Install the pedals correctly according to the markings (L for left, R for right) on the pedals and cranks.
11. **Tire Inflation:** Inflate the tires to the recommended PSI (check tire sidewall for details). Ensure the bead is properly seated.
12. **Battery Charging:** Fully charge the battery before your first ride.

Video: Official VARUN E-Bike Store-US assembly guide for the X-Plorer Raptor and Beast models.

6. OPERATING INSTRUCTIONS

Familiarize yourself with the bike's controls and functions before riding.

6.1 Powering On/Off

- **To Power On:** Insert the ignition key and turn it to the ON position. The display will illuminate.
- **To Power Off:** Turn the ignition key to the OFF position.

6.2 Display Functions

The LCD display shows essential riding information:

- **Speed:** Current riding speed.
- **Battery Level:** Indicates remaining battery charge.
- **Pedal Assist Level:** Shows the current assist level (1-3).
- **Voltage Reading:** Displays the battery voltage (e.g., 51.6V when not fully charged, 54.6V when fully charged).

20"×4.0

ELECTRIC BICYCLE ALL TERRAIN TIRE

Suitable for all seasons and
multiple scenarios



Sport
Mode



PAS
Mode



Pure Electric
Mode



Image: Easy-to-operate LCD display showing speed, battery, and other metrics.

6.3 Riding Modes

The bike offers three riding modes:

- **Pure Electric Mode:** Use the throttle for propulsion without pedaling.
- **Pedal Assist Mode:** The motor provides assistance as you pedal. Use the 'S' button on the handlebar to cycle through assist levels (1-3).
- **Manual Mode:** Ride the bike like a traditional bicycle without motor assistance.

6.4 Controls

- **Headlight:** Button to turn the LED headlight on/off.
- **Turn Signals:** Buttons to activate left/right turn signals.
- **Horn:** Button to activate the horn.
- **Brakes:** Front and rear mechanical disc brakes for stopping.

- **Gears:** 7-speed drivetrain for manual gear shifting.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your VARUN Xplorer Raptor Electric Bike.

- **Tires:** Check tire pressure regularly and inflate to recommended PSI. Inspect for wear and tear.
- **Brakes:** Periodically check brake pads and rotors for wear. Ensure brake levers are responsive and cables are not frayed. Adjust as needed.
- **Battery:** Charge the battery fully after each use. Avoid completely draining the battery. Store in a cool, dry place.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Frame:** Clean the frame regularly with a damp cloth. Inspect for any cracks or damage.
- **Fasteners:** Periodically check all bolts and screws for tightness, especially after the first few rides.

8. TROUBLESHOOTING

If you encounter any issues with your electric bike, refer to the following common troubleshooting tips:

- **Bike Not Powering On:** Ensure the battery is properly seated and charged. Check the ignition key is fully inserted and turned to the ON position.
- **Motor Not Assisting:** Verify that pedal assist mode is activated on the display and not set to '0'. Check battery level. Ensure all motor connections are secure.
- **Brakes Squealing/Ineffective:** Inspect brake pads for wear and replace if necessary. Clean brake rotors. Ensure brake cables are properly tensioned.
- **Unusual Noises:** Check for loose components, especially on the wheels, chain, and frame. Lubricate the chain if it's dry.
- **Display Malfunction:** Recheck all display connections. If the issue persists, contact customer support.

For complex issues or repairs, it is recommended to consult a professional bike technician or contact VARUN customer support.

9. WARRANTY AND SUPPORT

The VARUN Xplorer Raptor Electric Bike comes with a **One Year Limited Warranty**. This warranty covers manufacturing defects and ensures your peace of mind.

For warranty claims, technical assistance, or any questions regarding your product, please contact VARUN customer support. Our team is available 24/7 to assist you.

- **Customer Support:** Available 24/7
- **Warranty Type:** Limited
- **Warranty Duration:** One Year

Please retain your proof of purchase for all warranty claims.

10. VISUAL GUIDE

10.1 Motor and Power



POWERFUL
750W MOTOR
Powerful motor, easy climbing
without pressure

Image: Detailed view of the Peak 1000W brushless motor components.

VARUN X-PLOER RAPTOR E-BIKE SIZE

A: Handlebar wide
B: Seat Height
C: Handlebar Height
D: Bike Length

Recommended Height
5.0ft-6.5ft

Bicycle Weight
111LB

Maximum load
330LB

6.5ft
5.0ft

A	Handlebar wide	18.11 in
B	Seat Height	32.87 in
C	Handlebar Height	40.94 in
D	Bike Length	70.00 in

Image: Illustration of the powerful 750W motor, designed for easy climbing.

10.2 Battery System

48V 20.8AH BATTERY

Upgraded high-capacity removable battery



37-60+MILES

Long Range



5-6H

Fast Charging



IPX5

Waterproof



BMS

Safety Protection

Image: Close-up of the 48V 20.8Ah high-capacity removable battery.

48V 20.8AH

LONG RANGE BATTERY

Large-capacity battery for long-lasting battery life, ultra-fast charging for immediate departure



37-60Miles
Mileage Range



5-6H
Full Charge



Lockable
Anti-Theft



IPX5
Waterproof

Image: The 48V 20.8Ah long-range battery being charged, highlighting its features like mileage range, fast charging, anti-theft, and IPX5 waterproof rating.

10.3 Suspension and Tires



Image: The VARUN Xplorer Raptor Electric Bike with a rider, demonstrating its full suspension system.

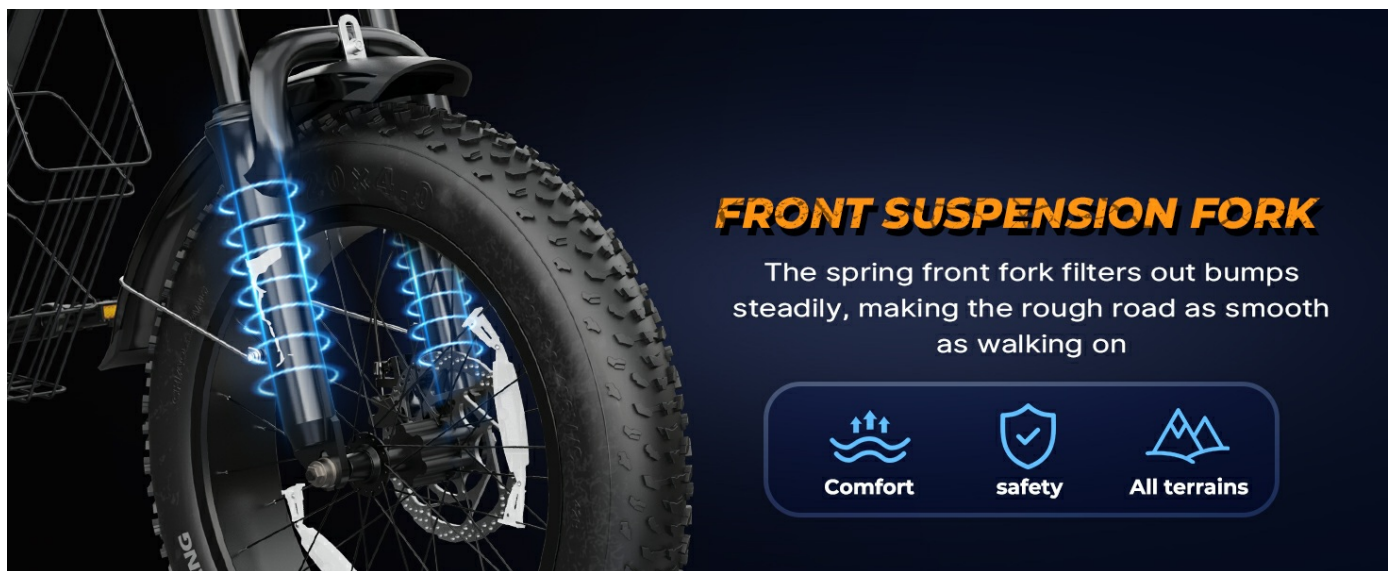


Image: Close-up of the full fork suspension, designed for stable driving on all terrains.



Image: Detailed view of the front suspension fork, highlighting comfort, safety, and all-terrain capability.



Image: The 20"x4.0" all-terrain fat tires, suitable for all seasons and multiple scenarios including sport, pedal assist, and pure electric modes.

10.4 Braking and Gearing



Image: Illustration of the front and rear mechanical disc brakes, providing stable full-speed and safe driving.



Image: Close-up of the 7-speed drivetrain, enhancing both riding comfort and efficiency.

10.5 Frame and Design

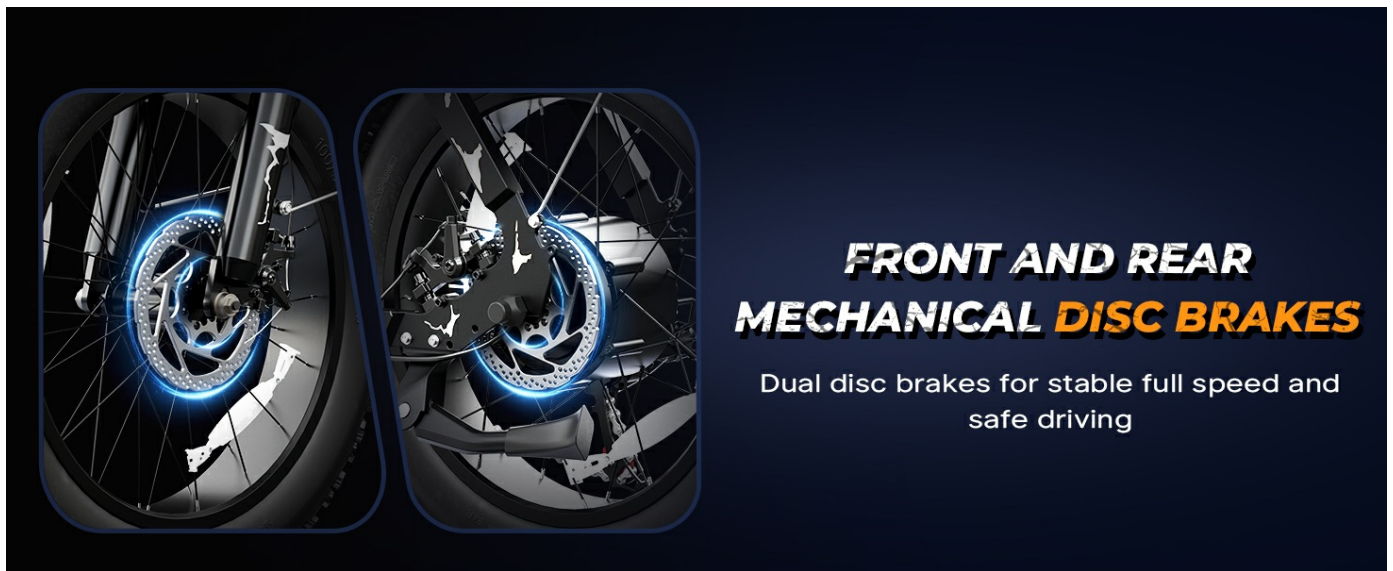
A woman with brown hair, wearing a blue blazer and a headset, is smiling and holding a tablet. The tablet displays a grid of four icons: '90% pre-installation', 'Security', 'One-year Support', and '24-Hour Rapid Response'.

24/7 Customer Support

Top-notch Customer Care

Four images of the electric motorcycle are shown in a 2x2 grid. Each image shows the bike from a side profile, with different color schemes and configurations. The top-left image has a black frame with yellow accents. The top-right image has a black frame with white accents. The bottom-left image has a black frame with black accents. The bottom-right image has a black frame with black accents.

Image: Diagram highlighting the strong and durable aircraft-grade carbon steel frame.



FRONT AND REAR MECHANICAL **DISC BRAKES**

Dual disc brakes for stable full speed and safe driving

Image: The bike featuring front and rear blinkers for enhanced visibility and safety.

10.6 Dimensions

A smiling woman with brown hair, wearing a blue blazer and a headset, holds a tablet. The tablet displays four icons: '90% pre-installation', 'Security', 'One-year Support', and '24-Hour Rapid Response'.

24/7 Customer Support

Top-notch Customer Care

Four different models of the VARUN X-Plorer Raptor E-Bike are shown in a grid. Each model is a black e-bike with different frame designs and colors. To the right of each bike are three colored circles (black, white, orange) representing different size options.

Image: Detailed size chart and recommended rider height for the VARUN X-Plorer Raptor E-Bike.

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