

Tracer Raptor Pro DS

Tracer Raptor Pro DS Electric Bike User Manual

Model: Raptor Pro DS

INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your Tracer Raptor Pro DS Electric Bike. Please read this manual thoroughly before your first ride and retain it for future reference. Understanding the features and proper use of your e-bike will ensure a safe and enjoyable riding experience. The Tracer Raptor Pro DS is an electric mountain bike designed for adults, featuring a powerful motor, long-range battery, full suspension, and hydraulic disc brakes for versatile terrain performance.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in serious injury or death.

- Always wear a helmet that meets CPSC or equivalent safety standards.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and all fasteners.
- Do not ride under the influence of alcohol or drugs.
- Obey all local traffic laws and regulations.
- Be aware of your surroundings and ride defensively.
- Do not exceed the maximum weight capacity of 300 lbs.
- Ensure the battery is securely locked in place before riding.
- Avoid riding in extreme weather conditions or on excessively slippery surfaces.
- Keep hands and feet away from moving parts.
- Familiarize yourself with the operation of the hydraulic disc brakes for effective stopping.



Image: The hydraulic disc brake system provides stable and efficient braking power, crucial for safety in various conditions.

SETUP AND ASSEMBLY

Your Tracer Raptor Pro DS Electric Bike arrives approximately 85% pre-assembled. The remaining assembly steps are straightforward and can be completed with the included tools. It is recommended to watch the provided step-by-step video for visual guidance.

Initial Assembly Steps:

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging materials for potential future transport or returns.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring they are centered and tightened securely.
3. **Front Wheel Installation:** Install the front wheel, ensuring the disc brake rotor is correctly aligned with the caliper.
4. **Pedal Attachment:** Attach the pedals. Note that pedals are typically marked 'L' for left and 'R' for right, and thread in opposite directions.
5. **Seatpost and Saddle Adjustment:** Insert the seatpost with the saddle into the frame and adjust to a comfortable riding height. Secure tightly.
6. **Battery Installation:** Insert the fully charged battery into its compartment and lock it securely.
7. **Final Checks:** Double-check all bolts, nuts, and quick releases for tightness. Ensure tires are inflated to the recommended pressure.



Image: Overview of the Tracer Raptor Pro DS components, useful for identifying parts during assembly and operation.

OPERATING INSTRUCTIONS

Battery and Charging:

The e-bike is equipped with a 48V 20Ah (960Wh) removable lithium battery. For optimal performance and longevity, fully charge the battery before the first use and after every ride. The detachable design allows for convenient charging at home or in the office.

- To charge, remove the battery or plug the charger directly into the bike's charging port.
- Use only the charger provided by Tracer.
- Do not overcharge the battery; disconnect once fully charged.
- Store the battery in a cool, dry place when not in use.

Image: The 48V 20Ah removable battery, providing extended range for commuting and exploration.

LCD Display and Riding Modes:

The multifunction LCD display provides real-time information such as speed, mileage, and battery level. Use the control panel to select your preferred riding mode:

- **Full Electric Mode:** Provides motor assistance without pedaling.
- **PAS (Pedal Assist System) Mode:** Offers customizable motor assistance while you pedal, extending your range.
- **Bike Mode:** Operates as a traditional bicycle with no motor assistance.

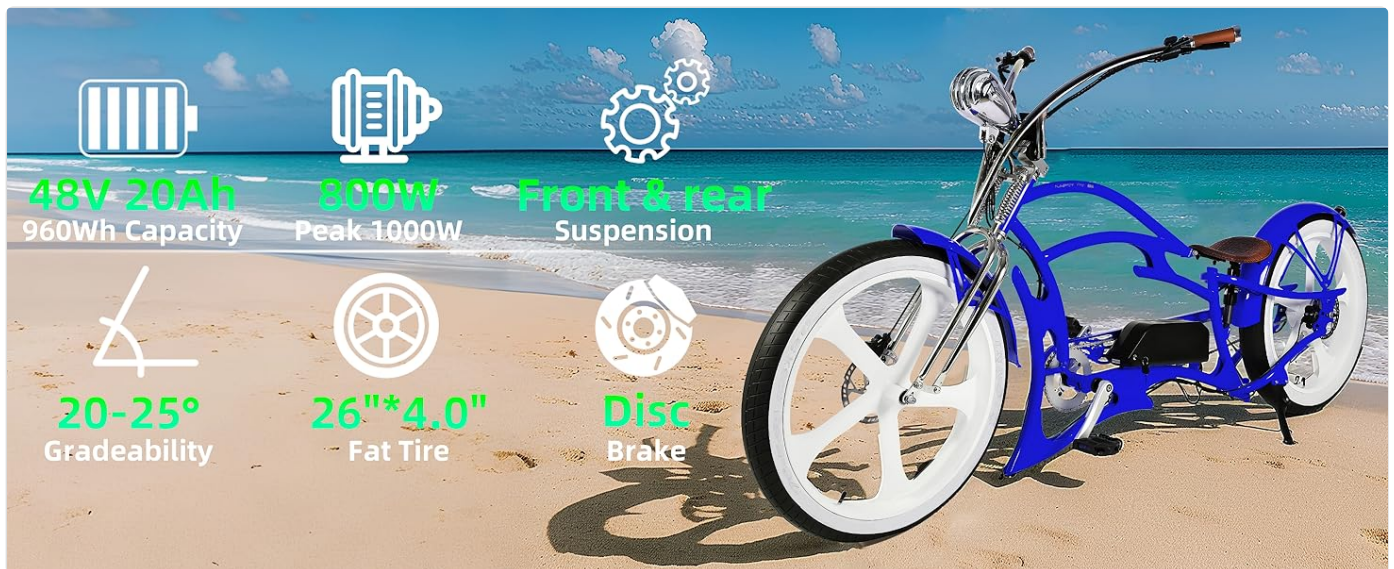


Image: The Tracer Raptor Pro DS is suitable for various terrains and rider heights, offering different riding styles.

Motor and Performance:

The 800W brushless motor, with a peak power of 1000W, allows for speeds up to 30 MPH. The bike features dual suspension (front and seatpost) and 26-inch fat tires for enhanced comfort and traction across diverse terrains.



-  LCD Display
-  Thumb Throttle
-  Sturdy Crankset
-  Comfortable Saddle
-  Bright Headlight

Image: The powerful 800W motor (1000W peak) provides robust performance and speed.



-  LCD Display
-  Thumb Throttle
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Image: The full suspension system enhances ride comfort and safety on varied road conditions.



-  LCD Display
-  Thumb Throttle
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-  Bright Headlight

Image: The 26-inch fat tires provide superior traction and adaptability for various terrains, including sand, snow, and rocky paths.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Tracer Raptor Pro DS Electric Bike.

- **Tires:** Check tire pressure before each ride. Recommended pressure is typically printed on the tire sidewall. Inspect for wear and punctures.
- **Brakes:** Regularly inspect brake pads for wear and ensure hydraulic disc brakes are responsive. Adjust or replace components as needed.
- **Battery Care:** Keep the battery charged. Avoid fully discharging it. Clean battery contacts periodically.
- **Chain and Drivetrain:** Keep the chain clean and lubricated. Inspect for rust or damage.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness.
- **Cleaning:** Clean the bike with a damp cloth. Avoid high-pressure washing directly on electrical components.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged, battery not properly seated, power cable loose.	Charge battery, ensure battery is fully inserted and locked, check all electrical connections.
Motor not assisting.	PAS level set to zero, full electric mode not engaged, brake levers engaged, motor error.	Increase PAS level, switch to full electric mode, ensure brake levers are fully released, check display for error codes.
Brakes feel weak or spongy.	Worn brake pads, air in hydraulic line, low fluid level.	Inspect and replace brake pads, bleed hydraulic system, check fluid level (professional service recommended).
Unusual noises during riding.	Loose components, chain issues, wheel bearing problems.	Inspect all fasteners, clean and lubricate chain, consult a professional if noise persists.

SPECIFICATIONS

Feature	Detail
Model Name	Raptor Pro DS
Bike Type	Electric Bike
Motor	800W Brushless (1000W Peak)
Max Speed	Up to 30 MPH
Battery	48V 20Ah (960Wh) Removable Lithium
Max Range	50+ miles (PAS Mode), 30 miles (Pure Electric Mode)
Tires	26" Fat Tires
Brakes	Hydraulic Disc Brake (Dual)
Suspension	Dual (Front and Seatpost)

Feature	Detail
Frame Material	Iron
Number of Speeds	1
Max Load Capacity	300 lbs
Recommended Rider Height	5.4 - 6.2 ft
E-bike Net Weight	130 lbs
Certification	UL 2849 Certified

Raptor Pro DS

White



 LCD Display

 Thumb Throttle

 Sturdy Crankset

 Comfortable Saddle

 Bright Headlight

Image: Key specifications of the Tracer Raptor Pro DS, including battery, motor, suspension, and tire details.

WARRANTY AND SUPPORT

The Tracer Raptor Pro DS Electric Bike comes with a**12-month warranty**. For specific terms and conditions, please refer to your purchase documentation or the official Tracer website. Note that some components may have a shorter warranty period, such as the 30-day warranty mentioned for certain parts.

Tracer offers 24/7 customer support to assist with any questions or issues you may encounter. Please contact customer service through the retailer where you purchased the bike or visit the official Tracer website for support contact information.

Related Documents - Raptor Pro DS

User's Manual



MPPT Max PV Input Voltage 30V



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1 Protection

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Possible reasons	Faults	Troubleshooting
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<p>PV array disconnection</p> <p>Battery voltage is lower than 5V</p>	<p>LCD display during daytime</p> <p>Wee connection is correct. The controller is not working.</p>	<p>Confirm that PV-wee connections are correct and tight.</p> <p>Please check the voltage of battery. At least 5V voltage to activate the controller.</p>
<p>Battery over voltage</p>	<p> Battery level shows full, battery frame blink, shut can blink</p>	<p>Check if battery voltage is higher than 6V (power voltage disconnected voltage), and disconnected the PV.</p>
<p>Battery over discharged</p>	<p> Battery level shows empty, battery frame is blink</p>	<p>When the battery voltage is restored to 0 or above 10V (low-voltage recovered voltage), the load will recover</p>

Regular cleaning of the scanner bed and rollers is recommended at least once a month for best performance.

- Make sure controller firmly installed in a clean and dry ambient.
 Make sure the fan blades are free to flow around the controller. Clean up any dirt and fragments on controller.
 Check all the related wires to make sure insulation is not damaged for starvation, electrical wear, stress, frays, insects or rats etc. Repair or replace some wires if it is damaged.
 Tighten all the terminals. Inspect for loose, broken, or burnt wire connections.
 Check and confirm that LED is not connected to incorrect supply. Pay attention to any color coding and wiring diagram.
 Confirm that all the system components are ground connected tightly and correctly.
 Check that all the terminals have no corrosion, insulation damaged, high temperature or burn/disco/short sign. Tighten terminal screws to the suggested torque.
 Check for dirt, heating smells and corrosion. If so, clean up in time.
 Check and confirm that lightning arrester is in good condition. Replace a new one in time to avoid damaging of the controller and even other equipments.
 Make sure that all the power is turned off before above operations, and then follow the corresponding inspections and operations.

Technical Specifications

System nominal voltage	12V DC
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System nominal voltage	12V DC
Rated charge current	10 A
Battery voltage range	8 ~ 14V
Max. PV open circuit voltage	≤ 40V
MPPT voltage range	≤ 30V
Battery voltage range	Battery voltage = 12V ~ 40V
Battery Type	Sealed/Lead-acid/AGM/Gel/OPzS LiFePO4/Li-ion case
Rated charge power	120W/200W
LiFePO4	11.2V/40A 10V ~ 12V
Li-ion	12.8V/40A 11V ~ 13.5V
Load voltage	3.0V/40A 13V ~ 17V
Boost voltage	14.4V ~ 42V/4A ~ 17V; Battery voltage less than Boost; Boost voltage Start/Stop charging
Self-consumption	≤ 10mA/20VDC
Temperature compensation	± 0.5mV/°C
Coefficient (α)	4mV/°C
Working environment	-20°C ~ +55°C (100% input and output)
Storage temperature	-20°C ~ +75°C
Relative humidity	0%~95%
Altitude	≤ 3000m

When a lithium battery is used, the system voltage can't be identified automatically.

- (A) minimum operating environment temperature
- (B) 25°C environment temperature

When a lithium battery is used, the temperature compensate coefficient will be 0.

The controller can work under full load in the working environment temperature. When the ambient temperature is more than 50°C, the reducing power otherwise made is turned on.

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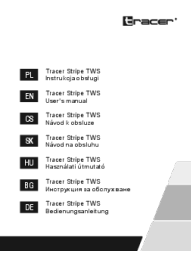
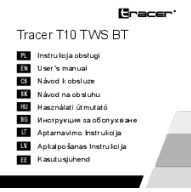

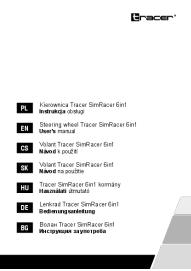

Item	TD1185
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Item	TD1385
Dimension (L*W*H)	120*75*43mm
Terminal Size	5mm/10A/40G
Mounting hole size	Ø4mm
Weight	25g



Any changes without
prior notice
Version TD50V V1.1

Your battery guard

 <p>Tracer Stripe TWS Instrukcja obsługi</p> <p>PL Tracer Stripe TWS User's manual</p> <p>EN Tracer Stripe TWS Návod k obsluze</p> <p>SK Tracer Stripe TWS Návod na obsluhu</p> <p>HU Tracer Stripe TWS Használati útmutató</p> <p>RO Tracer Stripe TWS Instrucțiune de utilizare</p> <p>DE Tracer Stripe TWS Bedienungsanleitung</p>	<p>Tracer Stripe TWS Bluetooth Speaker User Manual</p> <p>Comprehensive user manual for the Tracer Stripe TWS Bluetooth speaker, covering setup, modes (Bluetooth, TF, USB, AUX, FM Radio), TWS pairing, light effects, safety guidelines, and technical specifications.</p>
 <p>Tracer T10 TWS BT</p> <p>PL Instrukcja obsługi</p> <p>EN User's manual</p> <p>SK Návod k obsluze</p> <p>HU Návod na obsluhu</p> <p>RO Instrucțiune de utilizare</p> <p>DE Bedienungsanleitung</p>	<p>Tracer T10 TWS BT User Manual and Specifications</p> <p>Comprehensive user manual for the Tracer T10 TWS BT earbuds, covering setup, operation, charging, specifications, and safety guidelines. Learn how to pair, use voice assistants, manage calls, and optimize your listening experience.</p>
 <p>TRACER FM RTX200</p> <p>PL Radio FM Instrukcja obsługi</p> <p>EN Radio FM User Manual</p> <p>SK Rádio FM Návod k obsluze</p> <p>HU Rádió FM Használati útmutató</p> <p>RO Radio FM Instrucțiune de utilizare</p> <p>DE FM radio Bedienungsanleitung</p>	<p>Tracer FM RTX200 Portable FM Radio User Manual</p> <p>Comprehensive user manual for the Tracer FM RTX200 portable FM radio, covering setup, operation, safety, and specifications. Learn about Bluetooth connectivity, USB/TF playback, and more.</p>
 <p>PL Kierownica Tracer SimRacer 6in1 Instrukcja obsługi</p> <p>EN Steering wheel Tracer SimRacer 6in1 User's manual</p> <p>SK Volant Tracer SimRacer 6in1 Návod k obsluze</p> <p>HU Volant Tracer SimRacer 6in1 Használati útmutató</p> <p>RO Volant Tracer SimRacer 6in1 Instrucțiune de utilizare</p> <p>DE Lenkrad Tracer SimRacer 6in1 Bedienungsanleitung</p>	<p>Kierownica Tracer SimRacer 6in1 - Instrukcja Obsługi i Przewodnik</p> <p>Poznaj funkcje, konfigurację i obsługę kierownicy wyścigowej Tracer SimRacer 6in1. Szczegółowy przewodnik dla graczy na PC, PlayStation i Xbox.</p>
 <p>Tracer Gamezone Mobile Hybrid BT+2.4G</p> <p>PL Instrukcja obsługi</p> <p>EN Instruction for use</p> <p>SK Návod k obsluze</p> <p>HU Használati útmutató</p> <p>RO Instrucțiune de utilizare</p> <p>DE Bedienungsanleitung</p>	<p>Tracer Gamezone Mobile Hybrid BT+2.4G - Instrukcja obsługi</p> <p>Instrukcja obsługi dla słuchawek Tracer Gamezone Mobile Hybrid BT+2.4G, zawierająca informacje o bezpieczeństwie, specyfikacje techniczne, opis rysunku, instrukcje użytkowania w trybie przewodowym, 2.4G i Bluetooth, a także informacje o ładowaniu i stanie baterii.</p>