



USER MANUAL

Sakatah™ Trail Boss



TRAIL BOSS

ATTENTION:

Please read this manual carefully
before using the electric bicycle.
If you have any questions, contact
Support@SakatahBikes.com.

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Getting Started

Congratulations on purchasing your Sakatah™ Trail Boss. This manual helps you get the best performance, comfort, enjoyment, and safety from your electric bicycle. It includes care and maintenance procedures to protect you, your bike, and your warranty.

To ensure long-term functionality, it is important to understand your new electric bicycle, its features, and its operation. Please read this manual carefully.

It is suggested that the first ride be taken in a controlled environment.

Enjoy the Ride!

Important Safety Instructions

Cycling involves risks and hazards that may not always be anticipated or prevented. Even under optimal conditions, cycling can be dangerous and may result in injury or death. It is the rider's responsibility to inform themselves, take necessary precautions, and practice safe riding.

It is the customer's responsibility to properly maintain their electric bicycle, which helps mitigate the risk of injury. Sakatah™ advises all customers to have a certified and reputable bicycle mechanic conduct a comprehensive inspection of each component to ensure operational safety. Sakatah™ does not guarantee that any individual components,

parts, or accessories will be securely fastened, correctly adjusted, or precisely calibrated upon delivery.

A. Intended Use

The intended use of your Sakatah™ Trail Boss is to be ridden by one adult rider (age 18+) at an appropriate time and place for transportation or recreation. This bicycle is designed for on-road use and is not suitable for off-road, mountain biking, or jumping activities. Riders should be proficient cyclists and ride on paved surfaces and roadways or trails, only where permitted by local laws. Do not use your bicycle to tow another. Riders must have the coordination, reaction, and mental ability to control a bike and handle traffic. Consult a doctor before use if you are pregnant, have heart or respiratory issues, orthopedic conditions, high blood pressure, or have been advised to limit physical activity.

Keep small parts away from children.

Do not modify your frame or bicycle in any way, whether it is sanding, drilling, filing, removing parts or installing incompatible components or hardware. Doing so could result in injury and would nullify the warranty.

B. Always Wear a Helmet and Proper Equipment

- Helmets greatly reduce head injuries. Always wear a helmet that meets state laws when riding an E-Bike. Check with your local police department for community requirements.
- Increase visibility to vehicles and other cyclists on roads and trails by wearing reflective clothing. Ensure reflectors are clean and properly aligned.
- Utilize head and taillights in low-lighting conditions.

- Wear sturdy shoes and avoid loose-fitting items that could get caught in the chain, spokes, or gears while cycling, such as long laces, loose pants, tassels, or scarves.

C. Know Your Electric Bicycle

This manual contains comprehensive information on the various features and functions of your new electric bicycle. It is recommended to thoroughly review the manual to understand how these features can enhance your riding experience and ensure your safety. Familiarising yourself with these functionalities before your initial ride is advisable.

D. Ride Within Your Limits

- Always be aware of eBike regulations in your area. While these regulations may generally align with those for traditional bicycles, local variations such as permissible riding areas, minimum rider age, required equipment, or licenses may exist. It is your responsibility to understand and comply with these regulations.
- Proceed cautiously until you become familiar with the bicycle and the riding conditions.
- Adverse weather conditions can diminish traction and affect braking performance.
- Never ride faster than the conditions warrant or beyond your riding abilities. When riding at night, be mindful of the increased risks due to reduced visibility for yourself and others on the road. Ensure that lights are turned on for safety and exercise heightened caution.
- Maintain both hands on the handlebar grips and near the brakes while riding.
- Alcohol, drugs, fatigue, and inattention can significantly impair your judgment and ability to ride safely.

- Refrain from riding distracted. Remain vigilant of the conditions at all times. Using the display or other technology such as cell phones and music players can be distracting. Adjust settings on your display only when stationary. Do not use headphones or text while riding.
- Brake sooner – You may travel faster on an eBike, and it is likely heavier compared to a normal bicycle, necessitating earlier braking. Other road or trail users may not anticipate your higher speeds. Be cautious of obstacles. Braking during steering may cause swerving or loss of control.
- Exercise caution when riding in wet conditions, as braking distances may be longer and tires may slip during turns. The possibility of a crash increases in rainy conditions. The electric bicycle can manage light rain and small splashes but should not be exposed to severe weather, heavy showers, or submerged in water. Water damage is not covered by the warranty.

E. Keep Your Electric Bicycle in Safe Condition

To maintain your electric bicycle and ensure its longevity, inspect it regularly. Follow the inspection and safety guidelines provided in this manual, and check critical safety equipment before each ride.

F. Cleaning

Use a soft, damp cloth with mild soap and water to clean your SAKATAH™ Trail Boss.

Do not submerge the eBike or its components in water.

Do not use a pressure washer.

Maintenance Check List

Component or Condition	Inspect Before Every Ride	Inspect Periodically*	Clean and/or Lubricate	Adjust or Tighten	Repair/Replace If Necessary
Tire Pressure (20 psi)	X			X	
Tire Wear / Damage	X			X	
Brake Pad Adjustment	X			X	
Head and Taillights	X				X
Controls and Displays	X				
Seat Post quick release adjustment	X			X	
Brake Pad Wear		X		X	X
Brake Cable Tension / Wear		X		X	X
Wheel True		X		X	
Hub Bearings		X	X	X	
Chain Lubrication		X	X		
Derallieur Adjustment		X	X	X	
Reflectors		X			X
Battery & Charger		X			X
Headset Adjustment		X	X	X	
Bottom Bracket Adjustment		X	X	X	
All Bolts, Nuts, Moving Hardware		X		X	X
* Periodically = Every 5 to 10 Rides, depending on length and condition of ride					

Bike Overview



Left Handlebar



- A. Brake (front tire)
- B. Handle Grip
- C. Displayer
- D. Headlights (On/Off)
- E. Turn Signals (Left/Right)
- F. Horn

Right Handlebar



- A. Brake (rear tire)
- B. Handle Grip
- C. Throttle
- D. Gear Shifter

Component Installation

1. Install Handlebars



1. Pull back lever and lift handlebar stem.



2. Position the handlebar stem as shown.



3. Squeeze the latch until the stem locks into position.



4. Locate the hardware on top of the handlebar stem.



5. Remove the lever by turning the nut on the bottom and open.



6. Place handlebar inside and close hinge.



7. Attach the lever as shown and secure with nut at the bottom.

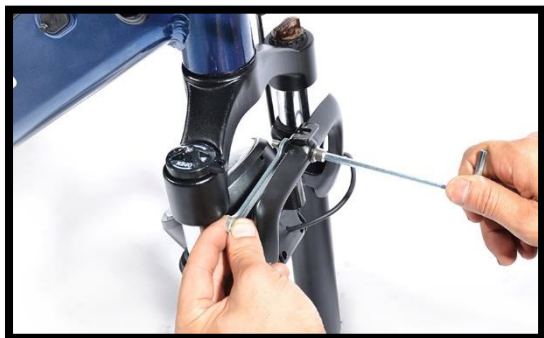


8. Once the nut is secure, press down on the lever to lock in place.

2. Install the Mudguard and Front Headlight



1. **Locate the headlight, front mudguard and accessories.**



2. **Install the light on the support bracket, located on the fork of the front tire.**



3. **Complete Installation, both headlight and mudguard brackets are tightened with the same bolt.**

3. Install the Front Wheel



1. Locate the stud bolt that is attached to the front wheel.

2. Remove the plastic protector attached on the front fork and line up the front wheel into the front fork mount.



3. It is important to align the disc brake rotor with the caliper.



4. Insert the front wheel stud bolt through the front wheel center shaft, starting on the side with the disc brake.



5. Securely tighten the stud bolt.



6. Put the front wheel screw covers on both ends of the front wheel stud bolt.

4. Assemble Pedals

1. Identify the pedals: “L” for left and “R” for right.



2. Attach the “L” Pedal to the left crank, fixing it counter-clockwise.



3. Attach the “R” Pedal to the right crank, fixing it clockwise.



Ensure all bike fastening and locking mechanisms are secure before riding.

Charging the Battery

Your Sakatah™ Trail Boss comes equipped with two batteries. One battery is located on the front frame and the other battery is located behind the seat post. Both batteries charge using the same charger. Do not use other battery chargers to charge the batteries, doing so could damage the battery and would void the warranty. Locate the battery charger and plug the cable from the charger into the port on the side of the battery pack and plug the power cable into an electrical wall socket. Charger pictured below:



Both batteries can be charged on the frame, or you may remove the battery using the keys.

For the battery located on the frame of the bike, locate the small charging port, pull out the rubber cover and plug in.



For the battery located behind the seat post, locate the charging port and plug in.



When the charger light is red, the battery is charging. When it turns green, the battery is fully charged.

Sakatah™ bikes come with one charger. Additional chargers are available at www.SakatahBikes.com. With two chargers, you can charge both batteries simultaneously while they remain on the bike. Only use Sakatah chargers, as incompatible chargers can cause safety issues due to overcharging or undercharging.

Battery and Charger Care

- Store the battery with 40-50% charge if unused for long periods; recharge every two months.
- Avoid complete discharge of the battery.
- Ideal charging temperatures: 50°F to 77°F. Storage/operation temperatures: 40°F to 95°F.
- Use the battery and charger only for their intended purposes.
- Do not use damaged batteries or chargers. Stop charging if the battery becomes too hot or emits an odor.
- Remove the battery before working on the bike to prevent accidental activation.

- Do not puncture, modify, or crush the battery; it can cause fire or explosion risks.
- Keep the battery away from flammable materials and ensure it's dry and on a fireproof surface while charging.
- Keep the battery out of reach of children and avoid contact with metal objects to prevent short circuits.
- Always remove the key from the battery before use to prevent damage, unauthorized use, and theft.
- Charging should take 4-6 hours; this may increase as the battery ages.
- Keep the rubber plug in the battery when not charging to prevent water intrusion.

Brakes

It is crucial for your safety to instinctively know which brake lever controls which brake. The front brake is located on the left handlebar, while the rear brakes are on the right handlebar. Your eBike is equipped with disc brakes for maximum reliability and stopping power. Applying hand pressure to the brake lever will cause the brake pad to create friction against the brake disc, thereby slowing the wheel. The more pressure applied, the faster the eBike will decelerate. The stopping distance varies depending on multiple conditions, such as speed, load weight, and road conditions. It is crucial to understand the operation of the brakes and become familiar with the typical braking distances at different speeds in order to ensure confident and effective use.

The rear brake should always be applied before or simultaneously with the front brake. Applying only the front brake to decelerate or stop at high speeds may result in the rider being

ejected from their seat or losing control of the eBike. It is advisable to apply even pressure to both brake levers when slowing down or stopping.

All Sakatah™ bikes are equipped with brake levers that have an integrated safety switch that automatically cuts off motor power during normal braking application. This feature ensures safe unpowered stopping and protects the motor.

Bicycles equipped with disc brakes might occasionally produce a slight scraping noise when the wheels turn without the brakes being applied. This occurrence is normal and adjustments can be made to prevent persistent scraping. Brake pads will eventually wear down with use and need to be replaced.

Ensure the brake lever does not contact the handlebar when full hand pressure is applied.

Warning: Disc brake rotors become hot during use. Do not touch or come in contact with the disc rotor shortly after use.

Wet weather can impact braking performance, requiring a longer distance to stop. Ride cautiously and allocate extra time to stop in wet conditions.

Folding Buckle

Your Sakatah™ Trail Boss can be completely folded by folding the bike and disassembling the handlebar if necessary.

To fold your bike, pull the lever forward and detach the buckle from the frame. This allows you to fold the bike in half for transport or storage.



Please ensure all components are securely fastened before riding again to avoid injury.

Keys

The Sakatah™ Bicycle includes two keys for the battery locks, which allow for removal from the bike. It is important to store the keys in a secure location to prevent loss or damage. Ensure the keys are kept out of reach of children.

Operation

1. Activate the power button, which is situated on the power control panel on the left handlebar. To activate, press and hold the  button for 3 seconds.
2. When activated, the color LCD display will illuminate. The Pedal-Assist Setting (PAS) is indicated in a box on the right side of the screen.



3. Level 0 disables the motor, regardless of pedaling or throttling. Adjust PAS level using the + or – buttons on the control panel near the power button on the left handlebar.
4. When you begin to pedal, you will feel the motor kick in if the PAS level is set 1-5. 1 is the lowest level, with the lowest top speed, while pedaling and 5 is the maximum top speed. Please note that the PAS speed levels only apply when you pedal. If you turn the throttle on the right handle grip, it will accelerate like it is on PAS 5. The throttle is particularly handy if you are at a complete stop and are having a hard time getting started or just need to accelerate quickly.
5. When you brake, the motor will automatically stop running until you release the brake and either continue to pedal again or use the throttle.

Shifting the Bike

Your Sakatah™ Trail Boss comes with a 7-Speed Shimano shifter. Shift to a higher gear for easier riding or a lower gear for more resistance, such as going up hills.



A. Press the thumb lever or the paddle towards the handlebars to shift to a higher gear. This moves the chain to a larger cog on the cassette (rear sprockets), making pedaling easier.

B. Pull the thumb lever or the paddle away from the handlebars to shift to a lower gear. This moves the chain to a smaller cog on the cassette, providing more resistance for climbing or when you need more power.

Tips for smooth shifting:

- Keep a steady pedal speed to make shifting smoother.
- Slightly reduce pressure on the pedals as you shift to avoid chain slippage.
- Anticipate changes in terrain and shift gears proactively.
- Avoid shifting too many gears at one time
- Only shift while pedaling and the bike is moving or you can put too much torque on the chain and it can come off.
- When you are done riding, we recommend putting your bike into PAS 0, this prevents the rider from accidentally triggering the throttle and moving while trying to get off the bike or later, when trying to get on it. LCD Display

Riding Modes:

Power Assist System (PAS)	-	Max Speeds
PAS 1: Low Speed Level	-	8-9 mph
PAS 2: Medium Speed Level	-	11-12 mph
PAS 3: High Speed Level	-	15-16 mph
PAS 4: Very High Speed Level	-	17-18 mph
PAS 5: Maximum Speed Level	-	21-22 mph

Riding Speeds are estimates and will vary.

Tires / Inner Tubes

Tires should be deflated only when needed. To reduce tire wear and ensure safe, comfortable, and effective riding, maintain the recommended tire pressure. The recommended pressure can be found on the sidewall of the tires. Use a reliable pressure gauge to check inflation before each ride. Additionally, inspect tires for excessive wear and cracks. Replace the tire if necessary.

FAQ

Q: How long does it take to charge the battery?

A: It depends on the state of depletion but around 3-6 hours if completely depleted.

Q: Can I ride up hills and against strong headwinds?

A: Yes, one of the main advantages of cycling on your Sakatah™ Trail Boss is that it flattens hills and increases your average speed when tackling hills and wind.

Q: Do I have to pedal?

A: No but it helps prolong the battery life. The motor on the trike is both pedal-assist and throttle, which allows you to decide how much effort you require. Think of pedal-assist like pedaling downhill on your normal bicycle. It is easier getting up to and maintaining speed without as much effort.

Q: How far will my Sakatah™ Trail Boss Take me?

A: This depends on a few factors, including the load (weight of the rider and gear), road conditions, inclines, wind, and how much pedaling the rider does. The key feature of your Sakatah™ Trail Boss is that the bicycle comes equipped with 2 batteries,

meaning it can go twice as far as other similar e-bikes. If both batteries are fully charged, and the rider is cycling using pedal assist, along a straight road, under normal weather and wind conditions, the batteries should last between 60-80 miles.

Q: What happens if I get a flat tire?

A: The tires on the Sakatah™ Trail Boss are the same as a conventional bicycle. Simply replace the tube with a tube of the right size and inflate it. No special tires or parts are needed.

Q: How do I know when the battery is low?

A: There is a visible indicator on the LCD screen that shows power level of the battery with the most capacity. The motor will automatically detect and draw power from the battery with the highest charge, so both batteries will be drawn from evenly. If you need to check the power capacity of the individual battery, there is an indicator on each battery.

If you do not think you will make it to your destination, you can turn the power off on the bike to save power for more difficult terrain.

Q: Do I have to wait until empty before I charge the battery?

A: No, the batteries are lithium-ion, which means they do not suffer from battery “memory.” You can charge the battery at any time without reducing voltage or battery life. We recommend recharging the battery after every use, regardless of how far you rode.

Q: What is the maximum weight capacity for the Sakatah™ Trail Boss?

A: The Sakatah™ Trail Boss will hold a maximum capacity of 400 pounds, this includes rider and cargo.

Legal

Warranty:

All Sakatah™ Electronic Bicycles and Bicycles and their components carry a 1-Year manufacturer warranty with the original registered owner. Please carefully read our terms and conditions below. If you feel you have a warranty-related issue, please contact Support@SakatahBikes.com.

- All Sakatah™ bikes carry the following 1-year warranty with the original registered owner including frame, battery, electronics, and most parts. Items, including the chain, tires, inner tubes, brake rotors, brake pads, cables & housing, grips and spokes are considered wear items. These items wear over time with normal use and are not covered under warranty. The owner is responsible for maintaining and replacing wear items, if necessary.
- Our support team will work to determine whether a covered component must be replaced. We will need photos and possibly video of the defective part before the process claim.
- Replacement parts will be shipped free of charge. The owner is responsible for the installation and labor of any replaced parts. You will NOT be refunded as compensation for your time or efforts replacing damaged parts.
- Warranty coverage only applies to the original registered owner and is not transferable.
- Warranty exclusions include:
 - Normal Wear and Tear
 - Any damage or failure resulting from failure to follow instructions in the owner's manual.
 - Damage or failure from abuse, neglect, misuse, or improper repairs.
 - Damage resulting from accidents

- Damage or failure resulting from modification of any of the bike systems
- Damage or failure of any part of the electrical system resulting from improper storage or charging of the battery. Necessary precautions must be taken to ensure batteries and bike are not exposed to severe weather conditions. Exposures to very wet, hot or cold conditions will void the warranty.
- Damage or failure resulting from replacement of any original components or installing aftermarket accessories.
- Lost or Damaged Keys
- Shipping Damage (such claims must be presented directly to the shipper)
- The warranty does not cover stolen bikes

Legal Disclaimer

1. **Bike Performance:** Bike performance will vary depending on the rider and conditions. The range of the eBike and top speeds mentioned are estimates of expected performance and are not guaranteed. Performance will vary with rider weight, cargo weight, rider/cargo shape contributing to wind drag, terrain, tire pressure, brake use and adjustments, throttle or PAS usage, pedal power, battery power level, battery age, weather temperature, and wind conditions. It is possible to get different results from the estimates provided.
2. **Insurance:** Note that your insurance coverage may not provide insurance for accidents involving e-bikes. Contact your insurance provider, company, or agent
3. **Liability Disclaimer:** Riding any type of bicycle or e-bike comes with inherent risks that cannot always be predicted or avoided. The dangers resulting from riding could result in a

serious accident, injury, or death to the rider. It is the sole responsibility of the riders to educate themselves regarding their bikes and how to ride safely. Sakatah™ strongly recommends and urges all customers to have a certified bicycle technician inspect each component to ensure its safe operation and condition. Sakatah™ does not guarantee that any of the bike components will be secured or properly adjusted upon arrival. We recommend and encourage riders to inspect their bicycles before every ride.

Sakatah™, its affiliates, or distributors shall not be held liable for any damages resulting from damaged, defective, or improperly secured parts. This includes, but is not limited to, damage to personal property, personal injury or death.

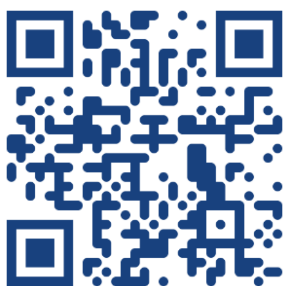
Notes:

DATE OF PURCHASE: _____

MODEL # _____

SERIAL # _____

Please Make Note of Your Serial Number as it will be required for any warranty issues:



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