



[Manuals.plus](#) /

› [TS TST GRP LLC](#) /

› TST Electric Bike X6 User Manual

TS TST GRP LLC X6

TST Electric Bike X6 User Manual

Model: X6 | Brand: TS TST GRP LLC

1. IMPORTANT SAFETY INFORMATION

Read this manual thoroughly before operating your TST Electric Bike X6. Failure to follow instructions and safety guidelines can result in serious injury or property damage. Always wear a helmet (one is included with your purchase) and appropriate safety gear when riding.

- **Helmet Use:** Always wear a certified helmet.
- **Pre-Ride Check:** Before each ride, inspect brakes, tire pressure, battery charge, and ensure all quick releases and fasteners are secure.
- **Local Laws:** Adhere to all local traffic laws and regulations regarding electric bicycles.
- **Weather Conditions:** Exercise caution when riding in wet conditions, as braking distance may increase. Avoid riding in heavy rain or snow.
- **Weight Limit:** Do not exceed the maximum weight recommendation of 450 pounds.
- **Age Range:** This electric bike is designed for adult use.

2. PRODUCT OVERVIEW

The TST Electric Bike X6 is a robust off-road e-bike designed for versatile terrain. It features a powerful motor, long-range battery, and dual suspension for a comfortable ride.



Figure 2.1: TST Electric Bike X6 with its removable 48V 15AH battery charging.

Key Features:

- **Motor:** 1500W Peak (750W rated) motor with 90 N.m torque, capable of 32 MPH top speed and 30° uphill climbing.
- **Battery:** Removable 48V 15AH battery, UL 2849 certified, offering 60-80 miles range and 7-hour fast charging.
- **Tires:** 20"x4.0" fat tires for stability and grip on various terrains.
- **Suspension:** Front and rear dual suspension system for enhanced comfort.
- **Brakes:** Dual mechanical disc brakes for reliable stopping power.
- **Display & Control:** Smart LCD display, APP control, and 7-speed Shimano gears.
- **Lighting:** Integrated bright front headlight and rear taillight for visibility.

More Details



Front Headlight



Rear Taillight



Front Dual Suspension



Rear Dual Suspension

Figure 2.2: Detailed view of the TST Electric Bike X6's integrated lighting and dual suspension system.

3. SETUP

3.1 Unboxing and Initial Assembly

Your TST Electric Bike X6 comes partially assembled. Carefully remove all components from the packaging. Assembly typically involves attaching the front wheel, handlebars, pedals, and seat. Refer to the included assembly guide for detailed, step-by-step instructions.

3.2 Battery Installation and Initial Charge

The 48V 15AH battery is removable for convenient charging. Before first use, fully charge the battery. This typically takes approximately 7 hours.

1. Locate the battery compartment and ensure the battery is securely installed.

2. Connect the charger to the battery charging port.
3. Plug the charger into a standard wall outlet.
4. The charger indicator light will show charging status (e.g., red for charging, green for fully charged).
5. Once fully charged, disconnect the charger from the outlet, then from the battery.



Figure 3.1: The removable battery can be charged on or off the bike.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

Press and hold the power button on the LCD display to turn the bike on or off.

4.2 Riding Modes

The TST Electric Bike X6 offers three distinct riding modes:

- **Electric Mode:** Provides full motor assistance without pedaling. Use the throttle for acceleration.
- **Assisted Mode (Pedal-Assist):** The motor provides assistance as you pedal. Adjust the assist level via the LCD display or APP.
- **Ordinary Cycling Mode:** Functions as a traditional bicycle with no motor assistance.



Figure 4.1: The TST Electric Bike X6 features three versatile riding modes.

4.3 LCD Display and APP Control

The high-definition LCD panel provides real-time information, including speed, battery level, and mileage records. For advanced control and monitoring, connect your bike to the dedicated mobile application via Bluetooth.

Safety System Protection

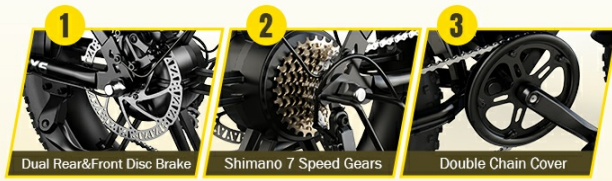


Figure 4.2: The LCD display provides essential riding data.

1500W Peak Motor

Our electric bike is equipped with a 1500W peak motor (average at 750W)/Easily reach speeds of approximately 28 mph.

32MPH Max Speed	7 Speed Shimano Gears
90 N.M Torque	30° Uphill Climbing

Figure 4.3: Smart APP control allows monitoring and adjustment of bike settings.

4.4 Gear Shifting

The 7-speed Shimano transmission system allows you to adjust pedaling resistance. Use the gear shifter on the handlebars to select the appropriate gear for your terrain and desired effort level.

Size Guide

5FT-6.4FT Recommended Height
88LBS Bike Weight
450LBS Max Load

26.67"

42.87"

60.45"

5. BATTERY MANAGEMENT

5.1 Charging

Always use the original charger provided with your TST Electric Bike X6. Charge the battery in a well-ventilated area, away from flammable materials. Do not leave the battery charging unattended for extended periods after it is fully charged.

5.2 Battery Care and Safety

- The battery is UL 2849 certified, ensuring safety against overcharging and electrical hazards.
- Avoid fully discharging the battery regularly. Charge it after each significant ride.
- Store the battery in a cool, dry place when not in use, ideally between 20% and 80% charge if storing for long periods.
- Do not expose the battery to extreme temperatures or direct sunlight.
- If the battery shows signs of damage or malfunction, discontinue use immediately and contact customer support.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your TST Electric Bike X6.

6.1 General Cleaning

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

6.2 Tire Pressure

Check the pressure of your 20"x4.0" fat tires before each ride. Maintain pressure within the recommended range printed on the tire sidewall for optimal performance and safety.

6.3 Brake System

Inspect the dual mechanical disc brakes regularly. Ensure brake levers are firm and responsive. Check brake pads for wear and replace them when necessary. Adjust brake cables if there is excessive slack.

6.4 Suspension

The dual front and rear suspension systems are designed for durability. Periodically check for any signs of damage or leaks. Keep suspension components clean.



Figure 6.1: The dual suspension system provides comfort and requires periodic inspection.

6.5 Chain and Drivetrain

Keep the chain clean and lubricated. Inspect gears and chain for wear or damage. A well-maintained drivetrain ensures smooth shifting and efficient power transfer.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your TST Electric Bike X6.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly installed; loose electrical connection.	Ensure battery is fully charged and securely seated. Check all visible electrical connections.
Motor not assisting	Pedal-assist level set to zero; battery low; sensor issue.	Increase pedal-assist level on LCD. Check battery charge. If issue persists, contact support.
Reduced range	Under-inflated tires; riding in high assist mode; cold weather; heavy load.	Inflate tires to recommended pressure. Use lower assist modes. Consider environmental factors.
Brakes feel weak	Worn brake pads; loose brake cable; contaminated rotors.	Inspect and replace brake pads. Adjust brake cable tension. Clean rotors with disc brake cleaner.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Feature	Specification
Model Name	X6

Feature	Specification
Bike Type	Multi-Use Bike
Motor	750W Rated (1500W Peak)
Battery	48V 15AH Removable
Max Speed	32 MPH
Range per Charge	60-80 miles
Charging Time	Approx. 7 hours
Tires	20 x 4.0 Inches Fat Tires
Suspension	Dual (Front & Rear)
Brakes	Dual Mechanical Disc Brakes
Gears	7-Speed Shimano
Frame Material	High Carbon Steel
Bike Weight	88 lbs
Maximum Load	450 lbs
Recommended Height	5 ft - 6.4 ft
Certifications	UL 2849
Included Components	Battery Pack, Charger, Helmet



Figure 8.1: TST Electric Bike X6 size and weight specifications.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Your TST Electric Bike X6 is covered by a **180-day 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.

9.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact our **24/7 customer support**. Have your purchase details and model number (X6) ready when contacting support.

Contact information can typically be found on the retailer's website or your purchase invoice.

