

## TESGO STT 4.0

# TESGO STT 4.0 Folding Electric Bicycle User Manual

Model: STT 4.0

## 1. INTRODUCTION

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Thank you for choosing the TESCO STT 4.0 Folding Electric Bicycle. This manual provides essential information for the safe assembly, operation, and maintenance of your e-bike. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

## 2. SAFETY INFORMATION

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Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Observe all local traffic laws and regulations. Regular maintenance checks are crucial for safe operation.

- Always perform a pre-ride inspection: check tire pressure, brake function, and ensure all bolts are tightened.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and ride defensively.
- Avoid riding in extreme weather conditions or on excessively rough terrain if you are not experienced.
- Ensure the battery is securely locked in place before riding.

## 3. PACKAGE CONTENTS

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Upon unpacking, please verify that all components are present:

- TESCO STT 4.0 Folding Electric Bicycle (partially assembled)
- 48V 17.5Ah Samsung Lithium-Ion Battery
- Battery Charger
- Pedals
- Front Fender (if not pre-installed)
- Tool Kit (basic assembly tools)

- User Manual (this document)

## 4. ASSEMBLY AND INITIAL SETUP

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The TESCO STT 4.0 is designed for straightforward assembly. It arrives partially assembled, requiring installation of the front wheel, handlebars, seat post, and pedals.

1. **Unpacking:** Carefully remove the bicycle and all components from the packaging. Retain packaging for future transport or storage.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring proper alignment and tightening all bolts securely.
3. **Seat Post Installation:** Insert the seat post into the frame and adjust to a comfortable riding height. Secure with the quick-release lever.
4. **Pedal Installation:** Identify left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Ensure they are fully threaded and tightened.
5. **Battery Installation:** Insert the 48V 17.5Ah Samsung battery into its compartment in the frame and lock it securely with the provided key.
6. **Initial Charge:** Fully charge the battery before your first ride. Connect the charger to the battery and a power outlet. The indicator light on the charger will show charging status.

For a visual guide, please refer to the official assembly and testing video provided by TESCO. Contact customer support for access to this video if needed.

## 5. COMPONENTS OVERVIEW

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Image: The TESCO STT 4.0 Folding Electric Bicycle, showcasing its overall design, 1000W motor branding, and an included storage bag.



Image: A detailed view of the TESGO STT 4.0's aluminum alloy foldable frame, highlighting its robust construction and folding mechanism.

## 5.1 Motor System

The STT 4.0 is equipped with a powerful **1000W high-speed brushless motor**, providing strong electric assistance for various terrains. It enables speeds up to 32 mph.

# 1000W | High Speed Brushless Motor

Super high speed motor can support all-terrain, the max speed is up to 32mph.



Image: An illustrative diagram detailing the internal components of the 1000W high-speed brushless motor and the Shimano 8-speed gear system.

## 5.2 Battery System

Features a removable and lockable **48V 17.5Ah Samsung lithium-ion battery**, composed of 65 cells. This battery is integrated into the aluminum alloy frame for protection and is waterproof. A full charge provides an estimated range of 40-50 miles in E-bike mode or 60-70 miles in PAS mode.

# 840WH

65 3000mah Battery Cells

48V 17.5AH Large capacity battery life gives you a long time to enjoy your travel. And the max speed could up to 40-50 miles when 100% charged.

6-7H   
Full Charged Time



If you use this ebike for commuter transportation, you just need to charge it a time in 3-4 days. Long battery life is so convenient for daily life.

Image: The TESCO STT 4.0 electric bicycle, highlighting the integrated 48V 17.5Ah Samsung battery and displaying charging time information.

### 5.3 Display and Controls

The **LCD Multi-function dashboard** provides clear visibility of speed, battery level, trip distance, and other riding data, day or night. Controls include a display button, power-off brake lever, thumb throttle, and 8-speed gears.



## LCD Multi-function dashboard

the colorful screen helps you to see clearly day and night.



Image: A detailed view of the TESCO STT 4.0's LCD Multi-function dashboard, showing speed and battery indicators, along with the handlebar controls including the thumb throttle and gear shifter.

### 5.4 Transmission System

Equipped with a **SHIMANO 8-speed derailleur transmission system**, allowing for smooth and precise gear changes to adapt to varying riding conditions.

### 5.5 Fork and Brakes System

Features a **hydraulic fork suspension** to absorb shocks from uneven terrain, enhancing ride comfort. The dual **hydraulic disc brakes** provide reliable stopping power.



Image: A close-up of the TESCO STT 4.0's front wheel, showcasing the hydraulic fork suspension with lock control, disc brake, and the strong magnesium alloy integrated wheelset with 20"x4.0 fat tire.

## 5.6 Frame and Tires

The frame is constructed from durable **aluminum alloy**, offering a balance of strength and light weight. Its folding design allows for convenient storage and transport. The **20"x 4.0 fat tires** provide stability and traction on various surfaces.

## 6. OPERATING INSTRUCTIONS

### 6.1 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.

## 6.2 Riding Modes

The TESCO STT 4.0 offers three distinct riding modes:

- **100% E-bike Mode:** Pure electric power, activated via the thumb throttle. No pedaling required.
- **100% PAS (Pedal Assist System) Mode:** The motor provides assistance as you pedal. The level of assistance can typically be adjusted via the display.
- **Mixed-Mode (Electric + Pedal):** Combines pedal assistance with the option to use the throttle for additional power.

You can switch between these modes using the controls on the LCD dashboard to suit your riding preference and terrain.

## 6.3 Shifting Gears

Use the Shimano 8-speed shifter on the handlebars to change gears. Shift to a lower gear for climbing hills and a higher gear for flat terrain or descents. Shift smoothly to avoid strain on the drivetrain.

# 7. BATTERY INFORMATION AND CHARGING

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## 7.1 Charging the Battery

The 48V 17.5Ah Samsung battery takes approximately **6-7 hours** for a full charge. Always use the original charger provided by TESCO. Charge the battery in a dry, well-ventilated area, away from flammable materials.

- Connect the charger to the battery charging port.
- Plug the charger into a standard wall outlet.
- The charger indicator light will change to show charging status (e.g., red for charging, green for fully charged).
- Disconnect the charger once charging is complete.

## 7.2 Battery Care

- Avoid completely draining the battery. Recharge it regularly.
- Store the battery in a cool, dry place when not in use, ideally with a partial charge (50-70%).
- Do not expose the battery to extreme temperatures.
- If the bike is not used for an extended period, charge the battery every 1-2 months to maintain its health.

# 8. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your TESCO STT 4.0.

- **Tires:** Check tire pressure before each ride. Maintain recommended pressure for optimal performance and safety. Inspect for wear and damage.
- **Brakes:** Regularly check brake pads for wear and ensure brake levers provide firm, responsive stopping power. Adjust or replace as needed.
- **Chain:** Keep the chain clean and lubricated to ensure smooth shifting and prevent premature wear.
- **Bolts and Fasteners:** Periodically check all bolts, nuts, and quick-release levers to ensure they are securely tightened. Pay special attention to the folding mechanism.

- **Cleaning:** Clean your e-bike with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- **Professional Service:** For complex repairs or adjustments, consult a qualified bicycle mechanic.

## 9. TROUBLESHOOTING

This section addresses common issues you might encounter with your e-bike.

- **E-bike not powering on:** Check if the battery is fully charged and properly installed. Ensure all electrical connections are secure.
- **Motor not assisting:** Verify that the e-bike mode or PAS mode is selected on the display. Check for any error codes on the LCD. Ensure the brake levers are not engaged, as they often cut motor power.
- **Reduced range:** This can be due to low tire pressure, riding in high assist modes, frequent stops and starts, or riding against strong headwinds. Battery degradation over time is also normal.
- **Brakes feel spongy:** This may indicate air in the hydraulic lines or worn brake pads. Professional service is recommended for hydraulic brake issues.
- **Gears not shifting smoothly:** The derailleur may need adjustment. Check if the chain is clean and lubricated.

If you experience persistent issues not covered here, please contact TESCO customer support.

## 10. SPECIFICATIONS

Feature	Specification
Bike Type	Electric Bike, Folding Bike, Commuting Bike, Cruiser bike
Motor	1000W High-Speed Brushless
Battery	48V 17.5Ah Samsung Lithium-Ion (Removable, Lockable)
Max Speed	Up to 32 mph
Range (E-bike Mode)	40-50 miles
Range (PAS Mode)	60-70 miles
Charging Time	6-7 hours
Frame Material	Aluminum Alloy (Folding)
Wheel Size	20 Inches (20"x 4.0 Fat Tires)
Suspension Type	Front Hydraulic Fork Suspension
Brake Style	Hydraulic Disc Brakes
Transmission	SHIMANO 8-Speed Derailleur
Display	LCD Multi-function Dashboard
Color	17.5Ah Gray

## 11. WARRANTY AND SUPPORT

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TESGO offers a **one-year warranty** covering the battery, motor, controller, and LCD display. For warranty claims or technical assistance, please contact TESCO customer support with your purchase details.

For further support, including assembly and testing videos, please visit the official TESCO website or contact our customer service team.