

## Varstrom 29in E-City Bike

# Varstrom 29in E-City Bike User Manual

Model: 29in E-City Bike

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Varstrom 29in E-City Electric Bicycle. Please read this manual thoroughly before your first ride and keep it for future reference.

## Safety Warnings

- Always wear a helmet when riding.
- Ensure all components are securely fastened before each ride.
- Do not ride under the influence of alcohol or drugs.
- Familiarize yourself with local traffic laws and regulations.
- Regularly check brakes, tires, and battery charge.

## 2. SETUP AND ASSEMBLY

Your Varstrom E-City Bike comes partially assembled. Follow these steps to complete the assembly and prepare for your first ride.

### 2.1 Unpacking

Carefully remove the bicycle and all components from the packaging. Check for any visible damage during transit.

### 2.2 Handlebar Installation

Attach the handlebars to the stem, ensuring they are centered and tightened securely. Adjust the angle for comfortable riding posture.

### 2.3 Pedal Installation

Identify the left (L) and right (R) pedals. Apply a small amount of grease to the threads and screw them into the crank arms. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Tighten firmly with a wrench.

## 2.4 Seat Post and Saddle Adjustment

Insert the seat post into the frame. Adjust the saddle height so your leg has a slight bend at the knee when the pedal is at its lowest point. Secure the quick-release lever or bolt firmly.

## 2.5 Front Wheel Installation

If the front wheel is not pre-installed, carefully align it with the front fork dropouts. Ensure the brake rotor is correctly positioned within the caliper. Secure with the quick-release skewer or axle nuts.

## 2.6 Battery Installation and Initial Charge

Insert the battery into its compartment on the frame. Ensure it clicks into place. Before first use, fully charge the battery using the provided charger. Refer to the "Battery Charging" section for details.



Figure 1: Fully assembled Varstrom 29in E-City Bike. This image shows the complete bicycle with its frame, wheels, handlebars, seat, and integrated rear rack.

# 43.2V 13AH

## INTUBE LITHIUM-ION BATTERY

### HIDE YOUR POWER

### UP TO 100 KM WITH ASSISTANCE MODE

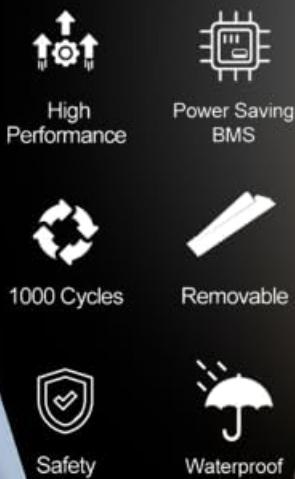


Figure 2: Close-up of the Varstrom E-City Bike's integrated battery compartment. The image highlights the location where the removable 43.2V 13Ah lithium-ion battery is housed within the frame.

## 3. OPERATING YOUR E-CITY BIKE

Understanding the controls and features of your Varstrom E-City Bike will ensure a safe and enjoyable riding experience.

### 3.1 Powering On/Off

Press and hold the power button on the LCD display to turn the bike's electrical system on or off.

### 3.2 LCD Display Functions

The intelligent LCD display provides real-time information about your ride:

- **Battery Level:** Indicates remaining battery charge.
- **Speed:** Current riding speed (km/h).
- **Mileage:** Total distance traveled (odometer) and trip distance.
- **Assistance Level:** Shows the current pedal assistance level.

# Latest generation screen indicates



The assisted pedaling system offers 4 levels of assistance and the **LCD** display will give us information about the battery capacity, assistance level, speed, total distance and partial distance



**Battery capacity**



**Support level**



**Speed**



**Partial distance**



**Total distance**

Figure 3: Close-up of the Varstrom E-City Bike's intelligent LCD display. The screen shows various metrics including battery level, current speed, trip distance, and total distance, along with the pedal assistance level.

## 3.3 Riding Modes

Your E-City Bike offers three distinct riding modes:

1. **Normal Bike Mode:** The electric assistance is off. The bike operates like a traditional bicycle.
2. **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. You can select from multiple assistance levels (e.g., 1-4) to control the amount of power. This mode offers up to 100 km range.
3. **Boost Mode:** Provides maximum assistance for easier starting or climbing steep inclines.

Use the '+' and '-' buttons on the control panel to switch between assistance levels.

## 3.4 Gear Shifting

The Varstrom E-City Bike is equipped with a Shimano 7-speed transmission system. Use the shifter on the handlebars to change gears according to terrain and desired speed. Shift to a lower gear for climbing and a higher gear for flat terrain or descents.



## EBIKE LAMP

Equipped with front and rear tail lights.  
make your night riding safer



## HANDLEBARS

Ergonomically designed handlebars  
make your riding more comfortable

## With Integrated Rear Rack Designed

Aluminum alloy Material is weather-resistant and  
qualitatively lightweight, sturdy and durable.

Max Load **20KG**



Figure 4: Detailed view of the Varstrom E-City Bike's Shimano 7-speed transmission system. This image shows the rear derailleur, cassette, and chain, illustrating the gear components.

### 3.5 Braking

Your bike is equipped with reliable disc brakes. Use both front and rear brakes simultaneously for effective and safe stopping. Apply gentle pressure initially and increase as needed.

### 3.6 Lights and Rear Rack

The bike includes integrated front and rear lights for enhanced visibility. The rear rack can carry up to 20 kg of cargo. Ensure items are securely fastened before riding.

# PARAMETER

	<b>MODEL</b> VARSTROM 28INCH City Bike		<b>MOTOR</b> Brushless Motor 250W
	<b>FRAME</b> 6061 aluminum frame		<b>BATTERY</b> Lithium battery 43.2V 13Ah (561Wh)
	<b>TRANSMISSION</b> Sh*mano 7 speed transmission		<b>SHIFTER</b> Sh*mano SL-TX50
	<b>REAR DERAILLEUR</b> Sh*mano RD-TY300		<b>ASSISTANCE</b> 4 levels of assistance
	<b>Sprocket</b> Sh*mano MF-TZ500-7 Sprocket (14-28)		<b>TYRES</b> Kenda tyres 700x40
	<b>SUSPENSION</b> Suntour NEX fork with hydraulic		<b>SPEED</b> Max 25km/h
	<b>Other</b> Include Bell, integrated luggage rack, stand, mudguards and chain guard . Front and rear LED lights		<b>RANGE</b> 120KM (With Assistance )

Figure 5: View of the Varstrom E-City Bike's integrated rear rack and lighting system. The image shows the sturdy aluminum alloy rear rack designed to carry up to 20kg, along with the rear light for night riding safety.

## 4. MAINTENANCE

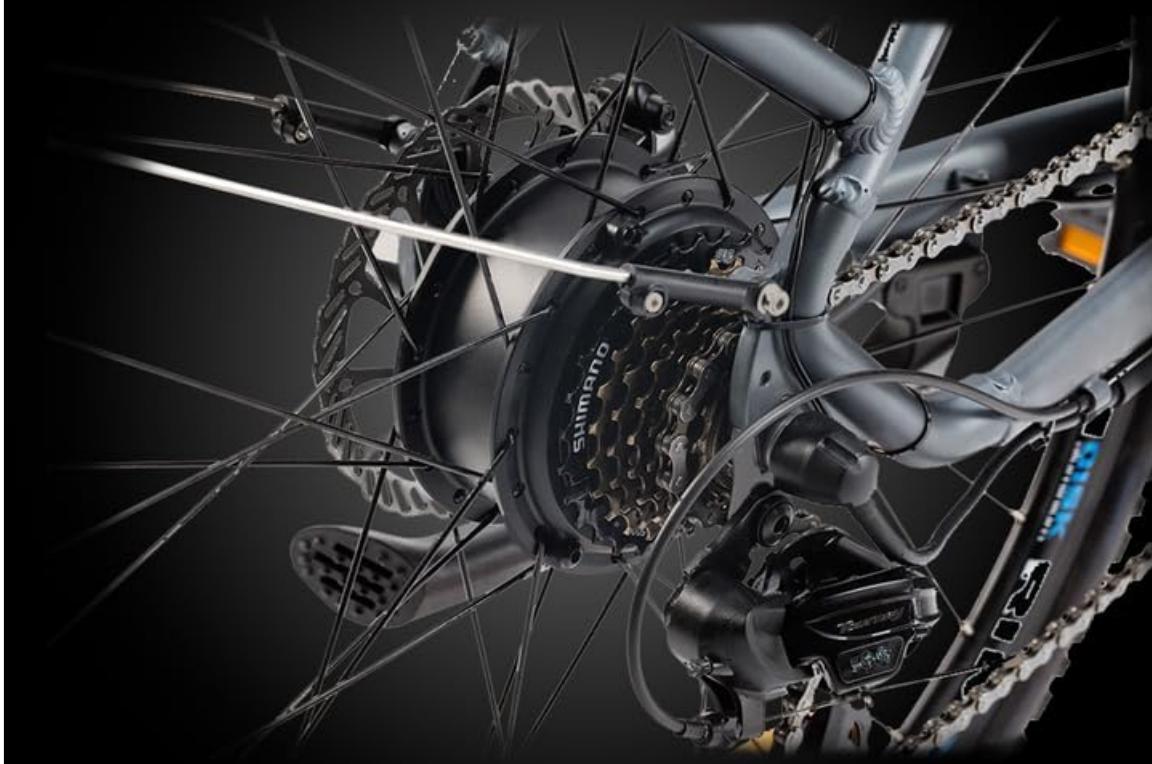
Regular maintenance is crucial for the longevity and performance of your Varstrom E-City Bike.

### 4.1 Battery Care and Charging

- Always use the original charger provided.
- Charge the battery in a well-ventilated area, away from flammable materials.
- Do not overcharge the battery; disconnect once fully charged.
- If storing the bike for an extended period, charge the battery to 50-70% and recharge every 2-3 months.
- Avoid exposing the battery to extreme temperatures.

# Brushless Rear Hub Motor 250W

Versatile, lightweight & Efficient



**Max Speed :25KM/H   Max Torque : 55N.m   Range : 100KM (With Assistance)**

Figure 6: The removable 43.2V 13Ah lithium-ion battery for the Varstrom E-City Bike. This image illustrates the battery's design, emphasizing its removability for convenient charging.

## 4.2 Cleaning

Clean your bike regularly with a damp cloth and mild soap. Avoid using high-pressure washers directly on electrical components, bearings, or the motor.

## 4.3 Tire Pressure

Maintain correct tire pressure as indicated on the tire sidewall. Proper inflation improves ride quality, efficiency, and prevents punctures.

## 4.4 Brake Inspection

Regularly check brake pads for wear and brake levers for proper tension and responsiveness. Adjust or replace components as needed.

## 4.5 Chain Lubrication

Keep the chain clean and lubricated to ensure smooth gear changes and prevent premature wear.

## 5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Varstrom E-City Bike.

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 cable connections.
Motor not assisting	Pedal Assist (PAS) level set to zero; brake levers engaged; sensor issue.	Increase PAS level on the display. Ensure brake levers are fully released. Contact support if issue persists.
Short battery range	Low tire pressure; riding in high assistance levels; heavy load; cold weather.	Check tire pressure. Use lower assistance levels. Reduce load. Battery performance decreases in cold weather.
Noisy brakes	Contaminated brake pads/rotors; worn pads; misaligned caliper.	Clean brake components. Replace worn pads. Adjust caliper alignment.

If you encounter issues not listed here or require further assistance, please contact Varstrom customer support.

## 6. SPECIFICATIONS

Detailed technical specifications for your Varstrom 29in E-City Bike.

Component	Specification
Model	Varstrom 29in E-City Bike
Motor	250W Brushless Rear Hub Motor, 55 Nm Torque
Max Speed	25 km/h (15.5 mph)
Battery	43.2V 13Ah (561.6Wh) Removable Lithium-Ion
Range	Up to 100 km (Pedal Assist Mode)
Frame Material	6061 Aluminum Alloy, Low-Step Design
Wheel Size	29 Inches
Tires	Kenda 700x40
Suspension	Suntour NEX Fork with Hydraulic Suspension
Gears	Shimano 7-Speed Transmission (MF-TZ500-7 Sprocket, RD-TY300 Derailleur, SL-TX50 Shifter)
Display	Intelligent LCD (Battery, Speed, Mileage, PAS Level)
Brakes	Disc Brakes (Front and Rear)
Rear Rack Capacity	Up to 20 kg

Component	Specification
Included Accessories	Front and Rear LED Lights, Bell, Integrated Luggage Rack, Kickstand, Mudguards, Chain Guard



Figure 7: A diagram illustrating key specifications and components of the Varstrom 29in E-City Bike. This visual summary includes details on the motor, battery, frame, transmission, suspension, and included accessories.

## 7. WARRANTY INFORMATION

Varstrom products are covered by a limited warranty against manufacturing defects. Please refer to the warranty card included with your purchase or visit the official Varstrom website for detailed terms and conditions. Keep your proof of purchase for warranty claims.

The warranty typically covers the frame, motor, and battery for a specified period, provided the product has been used and maintained according to this manual.

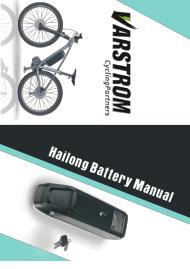
## 8. CUSTOMER SUPPORT

For technical assistance, spare parts, or warranty inquiries, please contact Varstrom customer support:

- **Email:** support@varstrom.com
- **Website:** [www.varstrom.com](http://www.varstrom.com)
- Please have your model number and purchase date ready when contacting support.

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## Related Documents - 29in E-City Bike

	<p><a href="#"><b>EKD01-AKSM Display Manual: Comprehensive Guide for E-Bike Displays</b></a></p> <p>Explore the EKD01-AKSM and B02NU-AKSM e-bike display unit with this detailed user manual. Learn about installation, features, settings, Bluetooth connectivity, app integration, and troubleshooting for your electric bicycle.</p>
	<p><a href="#"><b>VARSTROM Hailong Battery Manual: Operation, Maintenance, and Troubleshooting</b></a></p> <p>Comprehensive user manual for VARSTROM Hailong e-bike batteries. Covers function introduction, packing list, installation, operation, maintenance, storage, troubleshooting, and warranty activation. Includes safety guidelines and FAQ.</p>
	<p><a href="#"><b>MATE City 2.0 Owner's Manual - Comprehensive Guide</b></a></p> <p>Official owner's manual for the MATE City 2.0 electric bicycle, covering assembly, operation, maintenance, safety, and warranty information.</p>
	<p><a href="#"><b>ALUAS Electric Bicycle Manual - Assembly, Tuning, and Maintenance Guide</b></a></p> <p>Comprehensive user manual for ALUAS electric bicycles, including detailed instructions for assembly, tuning disc brakes and derailleurs, operating the e-bike display, troubleshooting common errors, and daily maintenance tips. Covers models like Boulevard Road, Trail, and City.</p>
	<p><a href="#"><b>HillMiles Mile City 1 Electric Bicycle Owner's Manual</b></a></p> <p>Comprehensive guide for the HillMiles Mile City 1 electric bike, covering setup, operation, safety, maintenance, and warranty. Learn how to use and care for your e-bike.</p>
	<p><a href="#"><b>G-FORCE AE Electric Bike Owners Manual</b></a></p> <p>This manual provides detailed instructions for the G-FORCE AE electric bicycle, covering setup, operation, safety guidelines, maintenance, and warranty information for optimal use.</p>