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## ENGWE Y400

# ENGWE Y400 Electric Scooter User Manual

Model: Y400 | Brand: ENGWE

## 1. INTRODUCTION

Welcome to the ENGWE Y400 Electric Scooter user manual. This guide provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new electric scooter. The ENGWE Y400 is designed for both urban commuting and off-road adventures, featuring a powerful 750W peak motor, C-shaped suspension, and a foldable design for convenience.



Figure 1: ENGWE Y400 Electric Scooter

## 2. SAFETY INFORMATION

Always prioritize safety when operating the ENGWE Y400. Read and understand all safety warnings before your first ride.

- Always wear a helmet and appropriate safety gear (knee pads, elbow pads, gloves) when riding.
- Do not operate the scooter under the influence of alcohol or drugs.
- Adhere to local traffic laws and regulations.

- Avoid riding in heavy rain, snow, or icy conditions. While the scooter has an IPX5 waterproof rating, it is not designed for submersion or heavy water exposure.
- Ensure all components, especially brakes and tires, are in good working order before each ride.
- Maintain a safe distance from other vehicles and pedestrians.
- Do not exceed the maximum weight limit of 265 lbs (120 kg).

## 3. SETUP

Your ENGWE Y400 Electric Scooter is 90% pre-installed. Follow these steps for final assembly and preparation.

### 3.1 Unboxing and Initial Check

Carefully remove all components from the packaging. Verify that all installation tools (included toolkit) and parts are present.

Video 1: Y400 Unboxing & Assembly. This video provides a visual guide for the initial setup process.

### 3.2 Folding Riser and Handlebar Installation

To unfold the scooter, turn the safety buckle counter-clockwise to release the pedal. Hold the red pedal and stand the folded riser upright. Install the handlebar and secure it with the provided nut and nut washer. Tighten the four screws to fix the display unit securely.

# Portable Folding Design



Figure 2: Portable Folding Design. The scooter folds for easy transport and storage.

## Handlebar Design

Simple and Classic Handlebar Design brings you an efficient riding experience.



Figure 3: Handlebar Design. Shows the layout of controls including the display screen, throttle, and switches.

### 3.3 Brake Adjustment

Tighten the nuts of the brakes to fix both sides of the brakes. For optimal safety, ensure the brakes are properly adjusted and responsive. When riding for the first time, ride at a low speed and try to squeeze the brake handle about 10 times repeatedly during riding to ensure normal function before increasing speed.

## Dual Disc Brakes

Front and Rear Disc Brakes enhance Superior Safety and Control.



Figure 4: Dual Disc Brakes. Front and Rear Disc Brakes enhance superior safety and control.

## 4. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and riding modes for a safe and enjoyable experience.

### 4.1 Power On/Off and Riding Modes

Insert the key into the ignition and turn it to power on the scooter. The display will illuminate. Press the 'M' button to cycle through the three speed modes: Eco (slowest), D (standard), and S (Sport mode for maximum speed up to 23 mph).

### 4.2 Acceleration and Braking

Use the thumb throttle on the right handlebar to accelerate. Release the throttle to slow down. Apply the brake levers for controlled stopping. The scooter features dual disc brakes for effective stopping power.

### 4.3 Display Information

The integrated display shows current speed, odometer, trip distance, and battery level. Monitor these indicators to plan your rides effectively.

#### 4.4 Lighting System and Horn

The scooter is equipped with a complete lighting system for visibility and safety, including a front headlight, rear reflector, and turn signals. Use the dedicated switches on the left handlebar to activate lights and the horn.



Figure 5: Lighting System. Features front headlight, rear reflector, and turn signals for enhanced visibility.

#### 4.5 Suspension and Tires

The ENGWE Y400 features C-shaped suspension and rear suspension for a smooth ride, minimizing vibration on various terrains. The 10-inch pneumatic fat tires provide superior grip and stability, suitable for sand, gravel, dirt, and snow.



Figure 6: C-Shaped Strong Suspension. Dual suspension provides superior shock absorption for increased comfort and stability.



## All Terrain 10" Fat Tires

The 10-inch fat tires provide superior grip and stability, ensuring a smooth ride on any terrain.



Sand



Gravel



Dirt



Snow

Figure 7: All Terrain 10" Fat Tires. These tires provide superior grip and stability on various surfaces.

Video 2: ENGWE Y400 E-scooter with C-Shaped Suspension. Demonstrates the scooter's performance on varied terrain.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ENGWE Y400.

- Battery Charging:** Charge the 48V 10.4AH battery using the provided charger. A full charge takes approximately 6 hours. Do not overcharge. The overheating protection system ensures safety during charging.
- Tire Pressure:** Regularly check and maintain the recommended tire pressure for optimal ride quality and tire lifespan.
- Brake Inspection:** Periodically inspect brake pads and cables for wear and tear. Adjust or replace as necessary to ensure effective braking.
- Cleaning:** Clean the scooter with a damp cloth. Avoid using high-pressure water jets directly on electrical components.
- Storage:** Store the scooter in a cool, dry place away from direct sunlight and extreme temperatures.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your ENGWE Y400.

Problem	Possible Cause	Solution
Scooter not turning on	Battery low or key not fully inserted/turned.	Charge the battery. Ensure the key is fully inserted and turned to the ON position.
Reduced range/power	Low battery, riding mode, terrain, rider weight, or tire pressure.	Fully charge battery. Switch to Eco mode. Check tire pressure. Note that mileage varies based on conditions.

Problem	Possible Cause	Solution
Brakes feel loose or ineffective	Brake cable tension needs adjustment or pads are worn.	Adjust brake cable tension. Inspect brake pads and replace if worn. Refer to Section 3.3.
Unusual noises during ride	Loose components, suspension issues, or brake rubbing.	Inspect all visible bolts and connections. Check suspension for debris. Ensure brake pads are not rubbing.

## 7. SPECIFICATIONS

Feature	Specification
Brand	ENGWE
Model Name	Y400
Motor Power	500W (750W Peak) Brushless Hub-Motor
Max Speed	Up to 23 Mph (37 km/h)
Max Torque	24 Nm
Climbing Ability	15°
Battery	48V 10.4AH (499WH)
Max Range	Up to 25 Miles (40 km) in 1st gear pure electric mode
Charging Time	Approx. 6 hours
Weight Limit	265 Pounds (120 kg)
Item Weight	52 Pounds (24 kg)
Product Dimensions (Unfolded)	49"L x 24"W x 43"H (124cm L x 61cm W x 110cm H)
Folded Size	52"L x 24"W x 20"H (132cm L x 61cm W x 51cm H)
Wheel Size	10 Inches
Tire Type	Pneumatic Fat Tires
Suspension	C-Shaped and Rear Dual Suspension
Brake Style	Front and Rear Disc Braking
Waterproof Rating	IPX5
Included Components	Toolkit

Feature	Specification
Certifications	UL 2272 Certified/GCC

## 8. WARRANTY AND SUPPORT

ENGWE provides comprehensive support for your Y400 Electric Scooter.

- **Warranty:** The ENGWE Y400 comes with a 1-year limited warranty.
- **Technical Support:** Permanent technical support is available for all customers.
- **Contact:** For any questions or assistance, please contact our customer service team.

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### Related Documents - Y400

	<p><a href="#">Engwe Y10 Electric Scooter User Manual - Safety, Specs, Operation &amp; Maintenance</a></p> <p>Comprehensive guide for the Engwe Y10 electric scooter. Learn about safety, assembly, maintenance, specifications, operation, and warranty. Get the most out of your e-scooter.</p>
	<p><a href="#">Engwe Y600 Electric Scooter Owner's Manual and Quick Start Guide</a></p> <p>This document provides a comprehensive owner's manual and quick start guide for the Engwe Y600 electric scooter, detailing safety instructions, assembly, operation, maintenance, troubleshooting, and warranty information.</p>
	<p><a href="#">ENGWE S6 Electric Scooter User Manual - Safety, Specs, and Operation</a></p> <p>Comprehensive user manual for the ENGWE S6 electric scooter, covering safety instructions, product features, charging, maintenance, specifications, and warranty information.</p>
	<p><a href="#">ENGWE Y600 Electric Scooter User Manual</a></p> <p>Comprehensive user manual for the ENGWE Y600 electric scooter, detailing safety instructions, product assembly, charging, maintenance, operation, and technical specifications for optimal use.</p>
	<p><a href="#">ENGWE Y10 Electric Scooter User Manual: Safety, Assembly, and Operation Guide</a></p> <p>A comprehensive guide for the ENGWE Y10 electric scooter, detailing safety instructions, assembly procedures, maintenance tips, operational guidance, technical specifications, and warranty information.</p>
	<p><a href="#">Engwe S6 Electric Scooter User Manual - Operation and Maintenance Guide</a></p> <p>Official user manual for the Engwe S6 electric scooter. Learn about safety, specifications, how to operate, maintain, and troubleshoot your S6 e-scooter.</p>

