

## ENGWE Y400

# ENGWE Y400 Electric Scooter Instruction Manual

Model: Y400

Brand: ENGWE

## INTRODUCTION

Welcome to the ENGWE Y400 Electric Scooter instruction manual. This guide provides essential information for the safe and efficient operation, assembly, maintenance, and troubleshooting of your new electric scooter. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize your riding experience.

### Safety Guidelines

Your safety is paramount. Always wear a helmet and appropriate protective gear (knee pads, elbow pads, gloves) when riding. Familiarize yourself with local regulations regarding electric scooter usage. The ENGWE Y400 is UL 2272 Certified, ensuring compliance with electrical safety standards.

- Always perform a pre-ride check, including brakes, tires, and battery level.
- Do not ride in heavy rain or through deep puddles, despite the IPX5 rating.
- Adhere to speed limits and traffic laws.
- Avoid riding under the influence of alcohol or drugs.
- Ensure the folding mechanism is securely locked before riding.

## SETUP AND ASSEMBLY

The ENGWE Y400 electric scooter comes 90% pre-assembled, making the setup process quick and straightforward. A toolkit is included for the remaining steps.

### Unboxing and Initial Setup

Carefully remove the scooter and all accessories from the packaging. Inspect for any damage during transit. The main components include the scooter body, handlebar, charger, and toolkit.

### Assembly Steps

- Unfolding the Riser:** Turn the safety buckle counter-clockwise to release it. Hold the red pedal and step on the footrest to raise the folding riser until it locks into place. Secure the safety buckle by turning it clockwise.

2. **Handlebar Installation:** Insert the handlebar into the top of the riser. Secure it with the provided nut and nut washer using the appropriate tool from the toolkit.
3. **Brake Adjustment:** Tighten the nuts of the brakes to fix both sides of the brakes, ensuring they are firm and responsive.
4. **Display Installation:** Tighten the four screws to fix the display unit onto the handlebar.
5. **Initial Charge:** Connect the charger to the scooter's charging port and a power outlet. Charge the battery fully before first use (approximately 6 hours).

*For a visual guide on unboxing and assembly, please watch the official video below:*

Official ENGWE Y400 Electric Scooter Unboxing & Assembly Video. This video demonstrates the step-by-step process of setting up your scooter from the box to its first operational state.

## OPERATING INSTRUCTIONS

### Controls Overview

The ENGWE Y400 features an intuitive handlebar design for efficient riding control:

- **Key Ignition:** Use the provided key to turn the scooter on/off.
- **Display Screen:** Shows speed (km/h), mileage (ODO/TRIP), battery level, and current riding mode (ECO, D, S).
- **'S' Button:** Shifts through different display modes (e.g., single trip, total mileage).
- **'M' Button:** Adjusts the three-speed gears (ECO, D, S).
- **Throttle:** Located on the right handlebar for acceleration.
- **Brake Levers:** Separate levers for front and rear disc brakes.
- **Lighting Switch:** Activates the front headlight and rear brake lights.
- **Turn Signals:** Left and right turn signal buttons for indicating direction.
- **Horn:** Button to activate the horn for safety.

### Riding Modes

The ENGWE Y400 offers three distinct riding modes to suit various preferences and terrains:

- **ECO Mode:** Energy-saving mode, ideal for longer ranges and casual cruising (up to 10mph).
- **D (Drive) Mode:** Balanced performance for everyday commuting (up to 20mph).
- **S (Sport) Mode:** Maximum power and speed for thrilling rides (up to 23mph).

### First Ride Recommendations

When riding for the first time, please ride at a low speed. It is recommended to repeatedly squeeze the brake handle about 10 times during riding to ensure proper brake function and to familiarize yourself with the braking response before engaging in higher speeds or more challenging terrain.

Official ENGWE Y400 Electric Scooter Features Video. This video highlights key features and operational aspects of the scooter, including its C-shaped suspension and overall performance.

### C-Shaped Strong Suspension

# C-Shaped Suspension

**+30%** Increased Comfort

**+20%** Improved Stability

**+30%** Extended Durability



**\*Compared to Standard Suspension**

The ENGWE Y400 is equipped with advanced C-shaped and rear suspension systems. This dual suspension minimizes

vibration, providing a smoother and more comfortable ride across various terrains. It offers +30% increased comfort, +20% improved stability, and +30% extended durability compared to standard suspension.

## Powerful Brushless Hub-Motor

# Powerful Brushless Hub-Motor

# 750W

Sustained 500W

**23MPH Max Speed**

**24Nm Max Torque**

**3 Gears Speed**

**15° Incline**

Experience swift acceleration and effortless hill climbing with the 500W (750W peak) brushless hub motor. It delivers 24Nm of torque and can handle inclines of up to 15°, reaching a maximum speed of 23mph across its three-speed modes.



## High-Performance 499WH Battery

# High-Performance Battery

# 499Wh



**BMS**  
Protection System



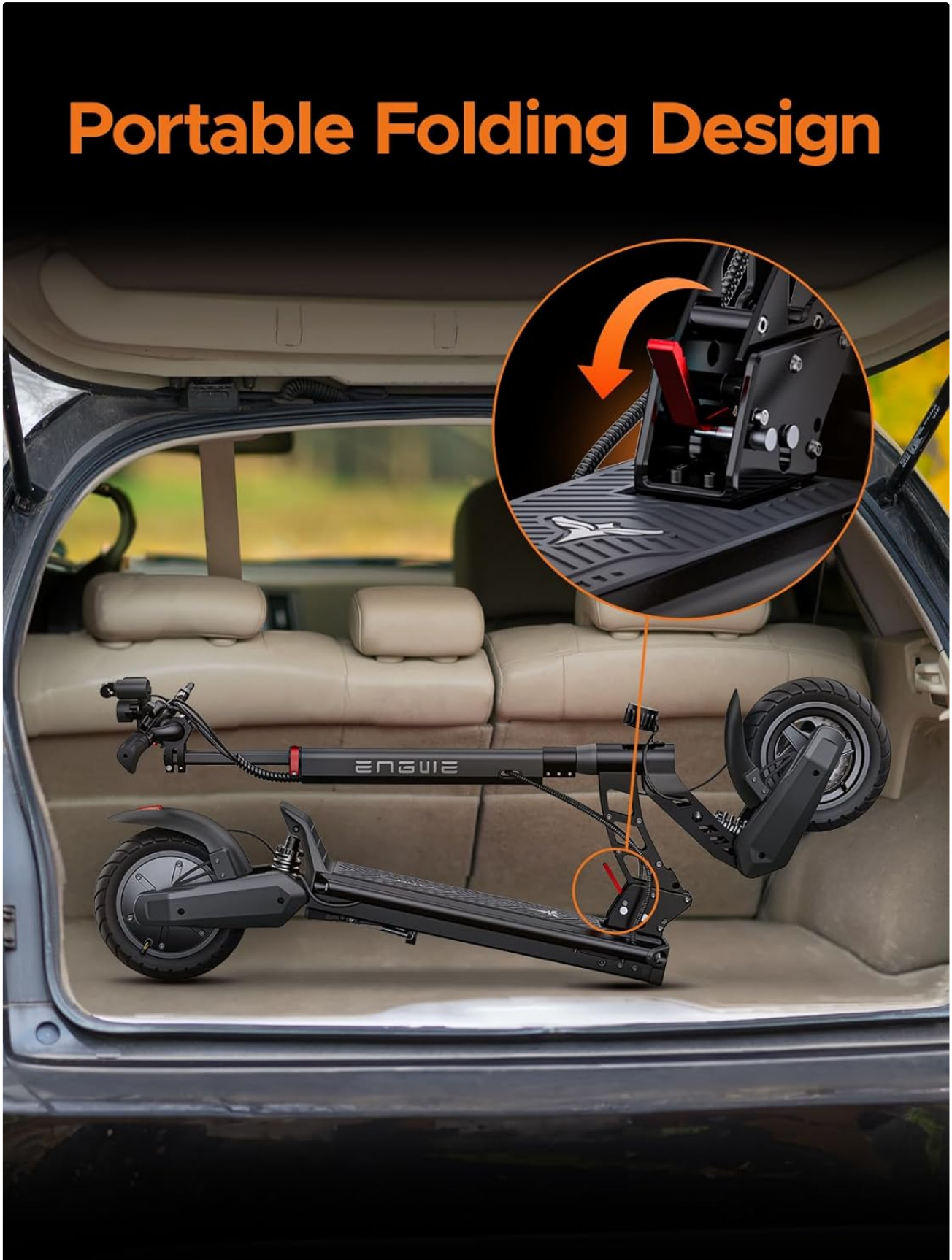
**25Miles**  
Max Range



**6 Hours**  
Charging

The scooter is powered by a 48V 10.4AH (499WH) battery, offering a maximum range of up to 25 miles in 1st gear pure electric mode. It features a BMS (Battery Management System) for protection and takes approximately 6 hours for a full charge.

## Portable Folding Design



Designed for convenience, the ENGWE Y400 features a foldable mechanism, allowing it to be easily stored in a car trunk or carried up stairs. Its folded dimensions are 52L x 24W x 20H inches, and it weighs 52 lbs, supporting a maximum load of 265 lbs.



## All-Terrain 10" Tires

# All Terrain 10" Fat Tires



Equipped with 10-inch pneumatic rubber tires, the Y400 provides superior grip and stability. These robust tires are designed to handle various terrains, including sand, gravel, dirt, and snow, ensuring a smooth ride wherever you go.

## Integrated Lighting System

The scooter features a complete lighting system for enhanced visibility and safety. This includes a bright front headlight, rear reflector, and integrated turn signals, ensuring you are seen by others, especially during night rides or in low-light conditions.

### Dual Disc Brakes

For superior stopping power and control, the ENGWE Y400 is equipped with both front and rear disc brakes. This system enhances safety, providing reliable and responsive braking performance in various riding conditions.

### IPX5 Waterproof Rating

The ENGWE Y400 boasts an IPX5 waterproof rating, allowing you to ride confidently in light rain and navigate through puddles and wet streets. While designed for durability, it is always recommended to ride in fair weather conditions for optimal safety and longevity.

## MAINTENANCE

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

- **Cleaning:** Wipe down the scooter with a damp cloth after each ride. Avoid using high-pressure water jets directly on electrical components.
- **Tires:** Check tire pressure regularly (refer to specifications for recommended PSI). Inspect tires for wear and tear or punctures.
- **Brakes:** Periodically check brake pads for wear and ensure brake levers are responsive. Adjust if necessary.
- **Battery Care:** Store the scooter in a cool, dry place. Avoid fully discharging the battery frequently. If storing for extended periods, charge the battery to about 50-70% every 1-2 months.
- **Fasteners:** Regularly check all screws and bolts to ensure they are tight, especially on the handlebar and folding mechanism.

## TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Scooter does not power on	Low battery; Key not fully inserted/turned; Loose connections	Charge battery; Ensure key is fully turned; Check all visible cable connections.
Reduced range/speed	Low tire pressure; Heavy load; Riding uphill frequently; Cold weather	Inflate tires to recommended PSI; Reduce load; Adjust riding style; Battery performance may decrease in cold.
Brakes feel loose/ineffective	Brake cable loose; Worn brake pads	Tighten brake cable nuts; Replace worn brake pads.



Problem	Possible Cause	Solution
Unusual noises during operation	Loose components; Debris in wheels/motor	Check all fasteners; Inspect wheels and motor for foreign objects.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact ENGWE customer support.

## SPECIFICATIONS

Feature	Detail
Model Name	Y400
Motor Power	500W (750W Peak) Brushless Hub Motor
Max Speed	Up to 23 Mph (37 km/h)
Torque	24 Nm
Climbing Ability	15° Max Slope
Battery Capacity	48V 10.4AH (499WH)
Max Range	Up to 25 Miles (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 (124 x 61 x 110 cm)
Folded Dimensions	52"L x 24"W x 20"H (132 x 61 x 51 cm)
Wheel Size	10 Inches
Wheel Type	Pneumatic Rubber
Suspension Type	Dual Suspension (C-Shaped & Rear)
Brake Style	Front & Rear Disc Braking
Frame Material	Aluminum
Waterproof Rating	IPX5
Certification	UL 2272 Certified / GCC

## WARRANTY AND SUPPORT

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The ENGWE Y400 Electric Scooter comes with a **1-year warranty** from the date of purchase. ENGWE is committed to providing permanent technical support for your product.

For any questions, technical assistance, or warranty claims, please contact ENGWE customer service through the official channels provided at the time of purchase or visit the [ENGWE Store on Amazon](#).

*Please retain your proof of purchase for warranty purposes.*