

DUODIAN F20Max

DUODIAN Electric Scooter F20Max User Manual

Model: F20Max

1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your DUODIAN Electric Scooter F20Max. Please read this manual thoroughly before using the scooter to ensure optimal performance and safety.

The DUODIAN F20Max Electric Scooter is designed for adults, featuring a powerful 350W (500W peak) motor, a top speed of 19 MPH, and a range of up to 18 miles on a single charge. It is equipped with 8.5-inch maintenance-free solid tires, a dual braking system, and smart app control for enhanced functionality and safety.

2. SAFETY INFORMATION

Your safety is paramount. Always wear a helmet and appropriate protective gear when riding. Adhere to all local traffic laws and regulations. This scooter has been tested to UL2272 and UL2054 standards for safety.

- Always wear a helmet and protective gear (knee pads, elbow pads) when riding.
- Do not ride in heavy rain or through puddles deeper than 0.8 inches.
- Ensure all screws and components are securely fastened before each ride.
- Familiarize yourself with the braking system. The scooter features a double braking system: disc brakes and EABS regenerative anti-lock brakes.
- Use bright headlights and warning taillights for visibility, especially at night.
- Do not use the product while charging.
- Do not charge or use the battery once water damage has occurred.
- If not used for a long time, it is recommended to still charge every three months.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x DUODIAN Electric Scooter F20Max
- 1x Charger Adapter
- 1x Hexagon Wrench
- 1x User Manual
- 4x Screws (for handlebar assembly)

4. ASSEMBLY INSTRUCTIONS

The DUODIAN F20Max Electric Scooter comes partially assembled. Follow these steps to complete the assembly:

1. **Unfold the Scooter:** Carefully lift the handlebar stem until it clicks into place. Secure the folding mechanism latch.
2. **Attach the Handlebars:** Connect the wiring from the handlebar assembly to the main stem. Carefully feed the wiring into the stem.
3. **Secure the Handlebars:** Align the handlebar unit with the stem and use the provided screws and hexagon wrench to firmly attach it. Ensure the brake lever is on the left side and the accelerator on the right. There are typically 6 screws for this attachment (2 on each side, 2 in front).



Figure 1: DUODIAN Electric Scooter F20Max with handlebars detached, showing the assembly components.



Figure 2: Close-up of the handlebar connection point, illustrating where the wiring is fed and screws are inserted.

5. CHARGING INSTRUCTIONS

Before your first ride, fully charge the scooter's battery. The charging port is conveniently located on the front side of the scooter's deck.

1. Locate the charging port on the scooter's deck, usually covered by a protective cap.
2. Plug the charger adapter into a standard wall outlet.
3. Connect the charging cable to the scooter's charging port. The indicator light on the charger will typically turn red during charging and green when fully charged.
4. A full charge takes approximately 5 hours.



Figure 3: The scooter's deck showing the location of the battery and charging port.

6. APP CONNECTION & FEATURES

Enhance your riding experience by connecting your DUODIAN F20Max Electric Scooter to the dedicated smartphone application. The app allows for remote locking, speed mode adjustments, and real-time data monitoring.

1. **Download the App:** Scan the QR code on the scooter's display or visit smartapp.tuya.com/tuyasmart to download the Tuya Smart app.
2. **Power On Scooter:** Press and hold the power button on the scooter's display to turn it on.
3. **Connect via Bluetooth:** Open the app on your smartphone and follow the on-screen instructions to connect via Bluetooth.
4. **Explore Features:** Once connected, you can view battery level, current speed, adjust speed modes (Low, Medium, High), activate/deactivate cruise control, turn headlights/tailights on/off, and remotely lock the scooter to prevent theft.

Smart LCD Display And APP Control



3 Speed Mode



Cruise Control



Speedmeter



Battery Power



Figure 4: The scooter's smart LCD display and the corresponding smartphone app for control and monitoring.

Video 1: Official DUODIAN F20Max Electric Scooter overview, demonstrating key features including app connectivity and riding experience.

7. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and practice in a safe, open area before riding in traffic.

1. **Power On:** Press and hold the power button on the display until the screen illuminates.
2. **Select Speed Mode:** Briefly press the power button to cycle through the three adjustable speed modes (ECO, D, S).
3. **Start Riding:** Place one foot on the deck and push off with the other foot. Once you have some momentum, gently press the accelerator lever on the right handlebar.
4. **Braking:** Use the brake lever on the left handlebar to engage the dual braking system (disc brake and EABS). Apply brakes gently to avoid sudden stops.

5. **Headlights & Taillights:** Turn on the lights via the app or by double-pressing the power button for increased visibility.
6. **Cruise Control:** Maintain a consistent speed for a few seconds to activate cruise control. The scooter will maintain this speed until you apply the brake or accelerator.



Figure 5: Illustration of the dual braking system, featuring both electronic and disc brakes for reliable stopping power.

8. FOLDING AND PORTABILITY

The DUODIAN F20Max is designed for easy portability with its lightweight and quick-folding mechanism.

1. **Folding:** Locate the folding latch mechanism at the base of the handlebar stem. Release the latch and carefully fold the stem downwards until it locks into the rear fender. This process takes approximately 3 seconds.
2. **Carrying:** Once folded, the scooter weighs only 32 pounds, making it easy to carry upstairs, onto public transport, or store in a car trunk.

Easy & Fast Folding

Lightweight at 32 lbs, easy to carry



Figure 6: The scooter demonstrating its lightweight and portable folding design, suitable for easy transport.

9. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your scooter.

- **Tires:** The 8.5-inch solid tires are maintenance-free and do not require inflation. Regularly inspect them for wear and tear.
- **Brakes:** Periodically check the brake levers and disc brakes for proper function and adjustment.
- **Battery:** Charge the battery regularly, even if the scooter is not in use, to maintain battery health. Avoid completely draining the battery.
- **Cleaning:** Wipe the scooter with a damp cloth. Do not use high-pressure water jets or immerse the scooter in water.
- **Storage:** Store the scooter in a cool, dry place away from direct sunlight and extreme temperatures.

Video 2: Official DUODIAN F20Max Electric Scooter highlighting the rear dual shock absorber for a smoother ride.

10. TROUBLESHOOTING

If you encounter issues with your scooter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Scooter does not turn on	Low battery; Loose connections	Charge the battery; Check all cable connections.
Motor not engaging	Scooter not pushed off; App lock engaged	Ensure you push off to gain initial momentum; Unlock via the app.
Reduced range/speed	Low battery; Overload; Tire wear	Fully charge battery; Ensure rider weight is within limits; Inspect tires.
Brakes not responsive	Brake cable loose; Worn brake pads	Adjust brake cable tension; Replace brake pads if worn.

11. SPECIFICATIONS

Feature	Specification
Brand	DUODIAN
Model Name	F20Max Electric Scooter for Adults
Motor Power	350W (500W Peak)
Top Speed	19 MPH
Max Distance Range	18 Miles
Battery	36V 7.8AH Lithium Battery
Charging Time	5 Hours
Tire Type	8.5" Solid Tires (Maintenance-Free)
Braking System	Dual Braking (Disc Brakes + EABS)
Suspension	Dual Rear Shock Absorber
Weight Limit	220 Pounds
Item Weight	32 Pounds
Frame Material	Aluminum
Special Features	Cruise Control, Digital Display, Foldable, Lights, Lockable, Smart App Control

12. WARRANTY AND SUPPORT

Your DUODIAN Electric Scooter F20Max comes with a 1-Year Manufacturer Warranty.
For technical support, warranty claims, or any inquiries, please contact DUODIAN customer service:

- **Email:** 19142187744@163.com
- **WhatsApp:** +8619142187744

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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