



Manuals.plus /

› Frdhee /

› Frdhee Thumb Throttle Ebike 3 Speed Switch Electric Scooter Throttle Accelerator User Manual (Model 01)

## Frdhee 01

# Frdhee Thumb Throttle Ebike 3 Speed Switch Electric Scooter Throttle Accelerator User Manual

Model: 01

## 1. INTRODUCTION

---

This manual provides instructions for the installation, operation, and maintenance of your Frdhee Thumb Throttle Ebike 3 Speed Switch Electric Scooter Throttle Accelerator. This universal controller is designed for electric bikes and scooters, compatible with 12V-72V systems, offering precise speed control and a 3-speed switch function.

## 2. SAFETY INFORMATION

---

- Always ensure the power is off before installation or maintenance.
- Consult a qualified technician if you are unsure about any installation steps.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not modify the product in any way not described in this manual.
- Keep out of reach of children.

## 3. PACKAGE CONTENTS

---

Please check the package for the following items:

- Frdhee Thumb Throttle with integrated 3-speed switch and key ignition
- Connection cables (approx. 1.8m length)
- Keys (2x)

# THREE SPEED ELECTRIC VEHICLE HANDLEBAR

NO DISPLAY THUMB LOCK

- ✓ Three speed regulation
- ✓ Rubber material
- ✓ Not easily worn out
- ✓ Small size and light weight

Image: The Frdhee Thumb Throttle unit, showing the thumb lever, 3-speed switch, key ignition, and the attached wiring harness.

## 4. SETUP AND INSTALLATION

The thumb throttle is designed for universal compatibility with most electric bikes and scooters. Installation requires basic electrical knowledge and tools.

### 4.1. Tools Required

- Screwdriver set
- Wire strippers/cutters
- Electrical tape or heat shrink tubing
- Multimeter (recommended for verifying connections)

### 4.2. Installation Steps

1. **Power Off:** Ensure your electric vehicle's power is completely turned off and the battery is disconnected before starting installation.

2. **Remove Existing Throttle (if applicable):** Carefully remove the existing throttle from your handlebar. This may involve loosening screws or clamps and disconnecting wiring.
3. **Mount the New Throttle:** Slide the Frdhee Thumb Throttle onto the handlebar. Position it comfortably for thumb operation. Secure it firmly using the integrated clamp and screws.



Image: The thumb throttle unit mounted on a handlebar, showing its position relative to other controls.

4. **Wiring Connections:** The throttle comes with a multi-wire cable. Refer to your electric vehicle's wiring diagram for specific connections. Common wire functions are:
  - **Red:** +5V (Throttle power supply)
  - **Green:** Signal (Throttle output)
  - **Black:** Ground (Throttle ground)
  - **Blue/Yellow/White:** 3-speed switch wires (connect to your controller's speed mode input)
  - **Orange/Grey:** Key ignition wires (connect to your controller's power lock/ignition input)

Ensure correct polarity and secure connections. Use electrical tape or heat shrink tubing to insulate all exposed wires.



Image: A detailed view of the multi-colored wiring harness connected to the thumb throttle, showing various connectors.

- **Test Connections:** Before fully reassembling, reconnect the battery and turn on the power. Test the throttle response and the 3-speed switch functionality. Ensure the key ignition properly turns the system on and off.
- **Secure Wiring:** Route and secure all cables to prevent interference with moving parts or damage.

### 4.3. Installation Video Guide

For a visual guide on the product and its components, please watch the video below:

Your browser does not support the video tag.

Video: A demonstration of the Frdhee Thumb Throttle, showcasing its features and components, including the key ignition and wiring.

## 5. OPERATING INSTRUCTIONS

### 5.1. Power On/Off

- Insert the key into the ignition slot and turn it to the "ON" position to power on your electric vehicle.

- Turn the key to the "OFF" position to power off the vehicle. Remove the key when not in use.

## 5.2. Speed Control (Throttle)

- Gently press the thumb lever to engage the motor and accelerate.
- Increase pressure on the lever for higher speeds.
- Release the lever to decelerate or stop.

## 5.3. 3-Speed Switch

- The integrated 3-speed switch allows you to select different power output modes (e.g., Low, Medium, High).
- Press the switch to cycle through the available speed modes. The current mode may be indicated by an LED or your vehicle's display, if equipped.



Image: A close-up of the thumb throttle unit, highlighting the red 3-speed switch buttons (I, II, III) and the key ignition.

## 6. MAINTENANCE

---

- **Cleaning:** Wipe the throttle unit with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections for looseness or damage. Ensure the throttle lever moves smoothly without obstruction.
- **Water Resistance:** The unit is designed to be waterproof. However, avoid prolonged submersion or high-pressure water jets.



Image: The thumb throttle installed on a handlebar, with simulated rain, demonstrating its waterproof design.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Throttle not responding	Loose wiring connection; Key not in "ON" position; Controller issue	Check all wiring connections, especially the throttle signal and power wires. Ensure the key is turned on. Consult your vehicle's controller manual.
3-speed switch not changing modes	Incorrect wiring of speed switch; Controller not compatible or configured	Verify speed switch wiring. Ensure your vehicle's controller supports 3-speed mode switching and is properly configured.
Vehicle not powering on with key	Key ignition wires incorrectly connected; Battery disconnected or low charge	Check key ignition wiring. Ensure battery is connected and charged.
Throttle lever is stiff or stuck	Debris or damage; Improper installation	Inspect for any obstructions. Re-install the throttle ensuring it's not overtightened or misaligned.
Intermittent operation	Loose connections; Damaged wiring	Thoroughly inspect all wiring and connections for any signs of damage or looseness. Secure or repair as needed.
Incompatible voltage	Vehicle voltage outside 12V-72V range	This throttle is designed for 12V-72V systems. Verify your vehicle's voltage. Using it outside this range may cause damage.
Product appears damaged upon arrival	Shipping damage	Contact customer support immediately with details and photos of the damage.

## 8. SPECIFICATIONS

Feature	Detail
Model	01 (S series)
Compatibility	Universal for electric vehicles (5V-99V automatic recognition, suitable for 12V-72V systems)
Material	High-quality Plastic, Rubber
Color	Black
Product Dimensions	5"L x 2"W
Line Length	1.8m (approx. 5.9 ft)
Handle Type	Lever (Thumb Throttle)
Hand Orientation	Ambidextrous
Features	3-speed switch, Key ignition, Waterproof, Wear-resistant



Image: A table detailing the product specifications, including model, efficiency, material, voltage, and line length.

## 9. WARRANTY AND SUPPORT

Frdhee products are designed for durability and performance. For any issues or questions regarding your product, please contact Frdhee customer support. All products come with a return policy or money-back guarantee. Refer to your purchase documentation for specific warranty terms.

**Contact Information:** Please refer to the seller's contact information on the platform where you purchased the product.

