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## TWOFISH TF-1

# TWOFISH Electric Bike TF-1 User Manual

Model: TF-1

## 1. INTRODUCTION

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This manual provides essential information for the safe operation, maintenance, and troubleshooting of your TWOFISH Electric Bike TF-1. Please read this manual thoroughly before your first ride and keep it for future reference. The TWOFISH TF-1 is a 26-inch electric mountain bike designed for adults, featuring a 36V 15Ah battery, a 250W motor, and a 7-speed gear system. It offers three riding modes: Human, Assisted, and Pure Electric.

## 2. SAFETY INFORMATION

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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. Obey all local traffic laws and regulations.

- Regularly check tire pressure, brake function, and battery charge.
- Do not modify the bike's electrical system or motor.
- Avoid riding in extreme weather conditions.
- Be aware of your surroundings and other road users.

## 3. PACKAGE CONTENTS

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Upon opening the package, verify that all components are present and undamaged. The TWOFISH Electric Bike TF-1 package should include:

- TWOFISH Electric Bike TF-1 (main frame, wheels, handlebars, seat)
- 36V 15Ah Lithium Battery
- Battery Charger
- Mudguard
- Bell
- Pump
- Tool Kit
- Lock

- User Manual (this document)



Image: The TWOFISH Electric Bike TF-1 packaging box, showing the brand logo and model number TF-1.

## 4. ASSEMBLY AND SETUP

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Your TWOFISH Electric Bike TF-1 requires some assembly before its first use. It is recommended to have basic bicycle assembly knowledge or seek professional assistance if unsure. The main steps include attaching the front wheel, handlebars, seat post, pedals, and front fender.

### 4.1 Initial Inspection

Before assembly, carefully inspect all parts for any signs of damage during shipping. If any parts are missing or damaged, contact customer support immediately.

### 4.2 Handlebar Installation

Attach the handlebars to the stem. Ensure they are centered and the brake levers and shifters are in a comfortable position. Tighten the stem bolts securely.

### 4.3 Front Wheel and Fender Attachment

Install the front wheel, ensuring the disc brake rotor is correctly aligned with the caliper. Attach the front fender above the front wheel.

### 4.4 Pedal Installation

Note that pedals are typically marked 'L' for left and 'R' for right. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Apply a small amount of grease to the threads before installation.

## 4.5 Seat Post Adjustment

Insert the seat post into the frame and adjust the height to a comfortable riding position. Ensure the quick-release lever is securely tightened.

## 4.6 Battery Installation and Charging

The 36V 15Ah lithium battery is removable for convenient charging. Insert the battery into its designated slot on the frame and ensure it clicks into place. Connect the charger to the battery and a power outlet. A full charge takes approximately 5-6 hours.



Image: Close-up of the TWOFISH Electric Bike's 36V 15Ah removable battery, highlighting its capacity and charging time.

## 5. OPERATING YOUR ELECTRIC BIKE

The TWOFISH TF-1 offers a versatile riding experience with its powerful motor and intelligent display.

### 5.1 Powering On/Off

To power on the bike, press and hold the power button on the LED display. To power off, press and hold the same button.

## 5.2 Riding Modes

Your electric bike supports three riding modes:

- **Human Mode:** Ride the bike like a traditional bicycle, using pedal power only.
- **Assisted Mode (Pedal Assist System - PAS):** The motor provides assistance as you pedal. You can adjust the assist level using the controls on the LED display. This mode offers a range of up to 100 km.
- **Pure Electric Mode:** Use the throttle to propel the bike without pedaling. This mode offers a range of 50-60 km.



Image: Illustration showing the three gear adjustments for speed: 12km/h, 18km/h, and 25km/h, indicating different levels of motor assistance.

## 5.3 LED Display Functions

The smart LED display provides real-time information about your ride:

- **Assist Level:** Indicates the current level of pedal assistance.
- **Speed:** Shows your current riding speed.
- **Battery Information:** Displays the remaining battery charge.
- **Light:** Indicates if the headlights are on.
- **Odometer Reading:** Tracks total distance traveled.
- **Error Symbol:** Alerts to system malfunctions.
- **Brake Symbol:** Indicates when brakes are applied.
- **Driving Time:** Shows the duration of your ride.

To activate cruise control, maintain a steady speed for 5 seconds. It disengages automatically when you brake or accelerate.

# HD Smart LED Display



Assist  
Level



Speed



Battery  
Information



Light



Odometer  
Reading



Error  
Symbol



Brake  
Symbol



Image: Close-up of the TWOFISH Electric Bike's HD Smart LED Display, showing various indicators like assist level, speed, battery, light, odometer, error, and brake symbols.

## Multi-function LED Display

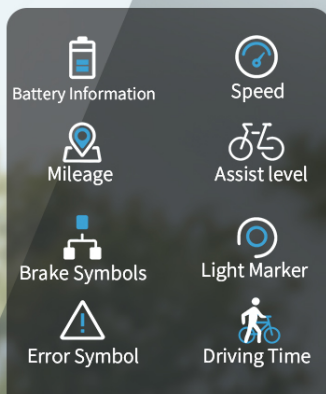


Image: Detailed view of the multi-function LED display on the TWOFISH Electric Bike, illustrating its various readouts including battery information, speed, mileage, assist level, brake symbols, light marker, error symbol, and driving time.

### 5.4 Gear System

The 7-speed gear system allows for smooth shifting and adaptation to various terrains. Use the gear shifter on the handlebars to select the appropriate gear for climbing hills or cruising on flat surfaces.



Image: Illustration of the TWOFISH Electric Bike's 7-speed gearbox, emphasizing smooth shifting for various terrains, from city roads to country paths.

### 5.5 Braking System

The bike is equipped with responsive disc brakes for secure stopping power. Apply both front and rear brakes smoothly and evenly for optimal control.

# ***Disc Brakes for Safe Stopping***

*Advanced braking systems to enhance safety and ensure worry-free driving*



Image: A rider on the TWOFISH Electric Bike demonstrating the use of disc brakes on a sandy trail, highlighting the advanced braking system for enhanced safety.

## **5.6 Lighting System**

The bike features a bright front headlight, rear reflectors, and wheel reflectors for enhanced visibility, especially during low-light conditions. Press and hold the "+" button on the display for 3 seconds to switch the light on or off.

# ***Bright Headlights & Reflectors***



Image: The TWOFISH Electric Bike illuminated by its bright front headlight and showing a red rear reflector, indicating high visibility for night riding.

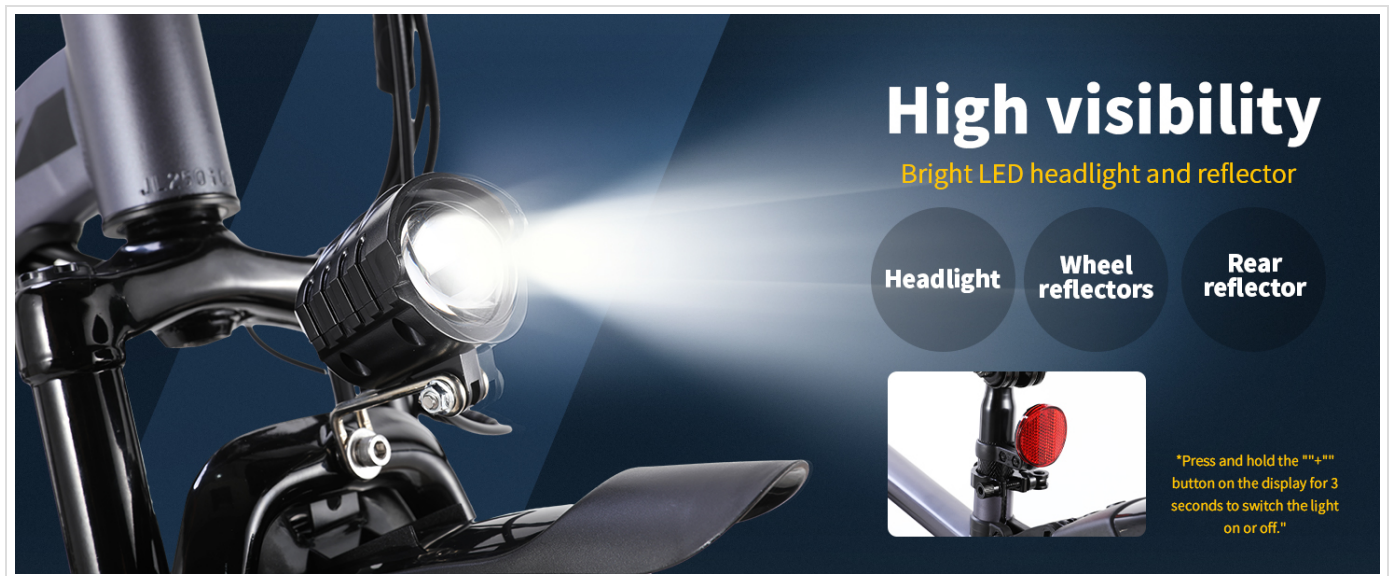


Image: Close-up of the TWOFISH Electric Bike's bright LED headlight and a rear reflector, emphasizing high visibility features for safety.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your TWOFISH Electric Bike TF-1.

### 6.1 Battery Care

- Charge the battery fully before first use.
- Avoid completely draining the battery.
- Store the battery in a cool, dry place when not in use, and charge it periodically if stored for long periods.
- Use only the provided charger.

### 6.2 Tire Pressure

Check tire pressure before each ride. Maintain the recommended pressure (usually indicated on the tire sidewall) for optimal performance and safety. Use the included pump for inflation.

### 6.3 Brake Adjustment

Regularly inspect brake pads for wear and ensure brake levers provide firm and responsive stopping power. Adjust as needed or consult a bicycle mechanic.

### 6.4 Chain Lubrication

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

### 6.5 General Cleaning

Clean the bike regularly with a damp cloth. Avoid using high-pressure washers directly on electrical components.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your TWOFISH Electric Bike TF-1.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged or not properly installed.	Ensure battery is fully charged and securely seated. Check connections.
Motor not assisting.	Low battery, assist level set to zero, or brake lever engaged.	Charge battery, increase assist level on display, ensure brake levers are fully released.
Brakes feel weak.	Worn brake pads or loose brake cable.	Inspect brake pads and replace if necessary. Adjust brake cable tension.
Unusual noises from drivetrain.	Dry chain, misaligned gears, or loose components.	Lubricate chain. Check gear alignment. Inspect for loose bolts.
LED display shows an error.	System malfunction.	Refer to the display's error code (if available) or contact customer support. Try restarting the bike.

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

## 8. SPECIFICATIONS

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Detailed technical specifications for the TWOFISH Electric Bike TF-1:

Feature	Specification
Model Name	TF-1
Bike Type	Electric Mountain Bike
Age Range	Adult
Motor	250W Brushless Motor, 45Nm Torque
Max Speed	25 km/h
Battery	36V 15Ah Lithium Battery (Removable)
Charging Time	5-6 hours
Max Range (Pure Electric)	50-60 km
Max Range (Pedal Assist)	Up to 100 km
Frame Material	High-Carbon Steel
Wheel Size	26 Inches
Suspension	Front Suspension Fork (40mm travel)
Brake Type	Disc Brakes (Front and Rear)
Gear System	7-Speed
Load Capacity	Up to 120 kg
Bicycle Weight	28 kg

Feature	Specification
Product Dimensions (L x W x H)	172.8 x 62 x 115 cm
Included Accessories	Mudguard, Bell, Pump, Tool Kit, Lock



Image: Diagram illustrating the dimensions (172.8cm length, 62cm width, 115cm height), load capacity (120KG), rider height range (155-190CM), and bicycle weight (28KG) of the TWOFISH Electric Bike.



Image: Visual representation of the TWOFISH Electric Bike's dimensions (172.8cm x 62cm x 115cm) and key capacities: 120KG load capacity, 28KG bicycle weight, and 155-190CM rider height range.



**250W**  
*Brushless Motor*

**25KM/H**  
*Speed*

**45N.M**  
*Motor Torque*

Image: Cutaway view of the TWOFISH Electric Bike's rear hub motor, highlighting its 250W brushless power, 25KM/H speed capability, and 45N.M motor torque.



**80mm**  
Front suspension

***Comfortable Suspension***  
*You can master uneven paths safely and comfortably.*

Image: A rider on the TWOFISH Electric Bike navigating rocky terrain, with an inset showing the 80mm front suspension, illustrating its comfort on uneven paths.



Image: Detailed view of the TWOFISH Electric Bike's front suspension, explaining how it reduces unevenness and vibrations for comfortable riding on all road conditions.



Image: Close-up of the TWOFISH Electric Bike's 26-inch wheel, with insets showing different environments (forest trail, city street, mountain path), indicating its versatility for various terrains.

## 9. WARRANTY AND SUPPORT

TWOFISH is committed to providing high-quality products. For warranty information, please refer to the warranty card included with your purchase or visit the official TWOFISH website. Keep your proof of purchase for warranty claims.

### Customer Support

If you have any questions, require technical assistance, or need to report an issue, please contact TWOFISH customer support. Contact details can typically be found on the TWOFISH website or on your purchase documentation. For general inquiries, you may also refer to the TWOFISH brand story description: "TWOFISH is an innovative brand that specialises in intelligent mobility and mainly offers electric vehicles such as electric bicycles and electric scooters. Whether for daily commuting or relaxed leisure rides, TWOFISH focuses on user-friendliness and combines modern technology with ergonomic design to create safe, comfortable and environmentally conscious ways of getting around."

