

XIBANY TF-901

XIBANY TF-901 LCD Instrument and DC48V 20A Brushless Controller User Manual

Model: TF-901 / XIBANY001

Brand: XIBANY

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your XIBANY TF-901 LCD Acceleration Instrument and DC48V 20A Intelligent Brushless Controller. This system is designed for use with electric scooters and e-bikes, offering precise control and clear display of operational parameters.

Please read this manual thoroughly before installation and use to ensure proper function and safety.

Package Contents:

- 1 x TF-901 LCD Acceleration Instrument
- 1 x DC48V 20A Intelligent Brushless Controller
- 1 x Power Switch
- 1 x Set of Connection Cables
- Throttle Grips (integrated with LCD instrument)

2. PRODUCT COMPONENTS OVERVIEW



Figure 1: XIBANY TF-901 LCD Instrument and Controller Kit

This image displays the complete kit, including the TF-901 LCD acceleration instrument with integrated throttle grips, the DC48V 20A intelligent brushless controller, and the necessary wiring harness. The LCD instrument provides real-time data, while the controller manages motor operation based on user input and system parameters. The various cables facilitate connection between these components and the electric scooter's power source and motor.

Key Components:

- **TF-901 LCD Instrument:** Displays speed, battery level, and other operational data. Integrates acceleration control.
- **DC48V 20A Brushless Controller:** The central processing unit that regulates power to the motor based on input from the LCD instrument and other sensors.
- **Connection Cables:** A set of color-coded cables with various connectors for linking the LCD, controller, power source, motor, and other accessories.
- **Power Switch:** For turning the system on and off.

3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your electric scooter or e-bike. If you are

unsure about any steps, it is recommended to seek assistance from a qualified technician.

Safety Precautions:

- Ensure the vehicle's power is completely off before beginning installation.
- Disconnect the battery to prevent accidental short circuits.
- Wear appropriate safety gear, including gloves and eye protection.
- Verify all connections are secure and correctly matched before applying power.

Installation Steps:

1. **Mount the LCD Instrument:** Securely attach the TF-901 LCD instrument (with integrated throttle grips) to the handlebars of your scooter or e-bike. Ensure it is positioned for easy viewing and comfortable access to the throttle.
2. **Mount the Controller:** Find a suitable, protected location for the DC48V 20A brushless controller. It should be protected from moisture and physical damage. Secure it firmly.
3. **Connect the LCD Instrument to the Controller:** Locate the 6-pin interface cable from the TF-901 LCD and connect it to the corresponding port on the brushless controller. Ensure the connection is firm and fully seated.
4. **Connect Power:** Connect the main power cables from the controller to your vehicle's DC48V battery. Pay close attention to polarity (positive to positive, negative to negative).
5. **Connect Motor:** Connect the motor phase wires and Hall sensor wires from your brushless motor to the corresponding ports on the controller. Color-matching is typically required.
6. **Connect Brake Signal:** Connect the brake lever signal wires to the controller. This allows the controller to cut power to the motor when brakes are applied.
7. **Connect Power Switch:** Integrate the provided power switch into the main power circuit as instructed by your vehicle's wiring diagram or the controller's specific instructions.
8. **Secure Wiring:** Route all cables neatly and secure them with cable ties to prevent them from snagging or getting damaged during operation.

4. OPERATING INSTRUCTIONS

Once installed, follow these steps to operate your electric scooter or e-bike with the XIBANY system.

4.1 Power On/Off

- **To Power On:** Press the power switch. The TF-901 LCD display should illuminate, indicating the system is active.
- **To Power Off:** Press the power switch again. The LCD display will turn off, and the system will shut down.

4.2 LCD Display Functions (TF-901)

The TF-901 LCD instrument provides essential information for your ride:

- **Speed Display:** Shows current riding speed.
- **Battery Level Indicator:** Displays the remaining battery charge.
- **Mode Selection:** Allows selection of different power assist levels or riding modes (if supported by the controller).
- **Error Codes:** In case of system malfunction, specific error codes may be displayed to aid in

troubleshooting. Refer to the troubleshooting section for common codes.

4.3 Acceleration Control

The integrated throttle grip on the TF-901 LCD instrument controls acceleration. Gently twist the throttle to increase speed. Release the throttle to decelerate.

4.4 Brake Function

When the brake levers are engaged, the controller receives a signal to cut power to the motor, ensuring safe stopping. Ensure your brake levers are properly connected and functioning.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable performance of your XIBANY system.

- **Inspect Connections:** Periodically check all electrical connections for tightness and corrosion. Loose connections can lead to intermittent operation or damage.
- **Keep Clean and Dry:** Ensure the LCD instrument and controller are kept clean and dry. Avoid exposure to heavy rain or direct water spray.
- **Cable Integrity:** Inspect all cables for signs of wear, fraying, or damage. Replace damaged cables immediately.
- **Environmental Protection:** Avoid storing or operating the system in extreme temperatures or high humidity.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
System does not power on.	Loose power connection, discharged battery, faulty power switch.	Check all power connections. Ensure battery is charged. Test or replace power switch.
Motor not responding to throttle.	Loose throttle connection, controller malfunction, motor issue.	Verify the 6-pin LCD/throttle connection to the controller. Check motor connections. If problem persists, consult a technician.
LCD display is blank or flickering.	Loose 6-pin connection, damaged LCD cable, faulty LCD unit.	Ensure the 6-pin cable between LCD and controller is securely connected. Inspect cable for damage. If necessary, replace the LCD instrument.
Inconsistent power delivery.	Loose motor phase wires, Hall sensor issues, controller overheating.	Check motor and Hall sensor connections. Ensure controller has adequate ventilation.

7. SPECIFICATIONS

- **Voltage:** DC 48V
- **Current:** 20A


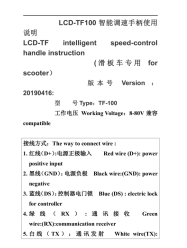
- **Display Model:** TF-901 LCD
- **Display Interface:** 6-pin
- **Controller Type:** Intelligent Brushless
- **Material:** Metal (Controller housing)
- **Model Name:** XIBANY001
- **Item Weight:** Approximately 1.76 ounces (50 Grams)
- **Package Dimensions:** Approximately 1.18 x 0.79 x 0.39 inches
- **Age Range (Description):** Adult


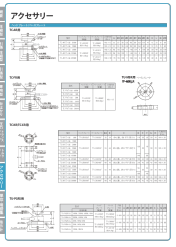


8. WARRANTY AND SUPPORT

Warranty information for the XIBANY TF-901 LCD Instrument and DC48V 20A Brushless Controller is typically provided at the point of purchase or can be obtained directly from the manufacturer or authorized reseller. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or inquiries regarding parts and service, please contact XIBANY customer service through the official channels provided with your product or on the XIBANY website.

Related Documents - TF-901

	<p>Infiniti FX35/FX45 Driveline/Axle Transfer System Service Manual</p> <p>Comprehensive service manual detailing the Driveline/Axle Transfer System for Infiniti FX35 and FX45 models, covering troubleshooting, repair procedures, and specifications.</p>
	<p>LCD-TF100 Intelligent Speed-Control Handle User Manual for Scooters</p> <p>User manual for the LCD-TF100 intelligent speed-control handle, detailing wiring, functions, display indicators, error codes, parameter settings, and button operations for electric scooters.</p>

 <p>TELEFUNKEN Smart TV USER GUIDE Safety and Reference</p> <p>From 2015 to 2016, the company was known as Telefunken. The company was founded in 1934 and is now a part of the Telefunken Group.</p>	<p>Telefunken Smart TV User Guide: Safety and Reference</p> <p>Comprehensive user guide for Telefunken Smart TVs, covering safety precautions, remote control operation, installation, connections, specifications, troubleshooting, and warranty information.</p>
 <p>TEAC アクセサリ アキュレータ</p>	<p>TEAC Load Cell Accessories - Specifications and Dimensions</p> <p>Comprehensive specifications, dimensions, and model details for TEAC load cell accessories, including head plates, base plates, rod end bearings, and tension adapters for various TEAC load cell series.</p>
 <p>Datacolor AutoLab TF Tube-Free Laboratory Dispensers Installation Services Requirements</p> <p>1st Oct 2019 Revision 13.0</p>	<p>Datacolor AutoLab TF Tube-Free Laboratory Dispensers: Installation Services Requirements</p> <p>Comprehensive installation services requirements for Datacolor AutoLab TF Tube-Free Laboratory Dispensers, covering environmental needs, power, water, drain, air supply, dimensions, weights, PC specifications, and connection details for models TF-40 through TF-168.</p>
 <p>TERMOFOL OTOD/SHITE/HNA POT/3KA</p> <p>TERMOFOL Heating Mat Installation Guide and Technical Specifications</p>	<p>TERMOFOL Heating Mat Installation Guide and Technical Specifications</p> <p>This guide provides comprehensive instructions for installing TERMOFOL heating mats, covering technical data, safety zones, installation steps, first start-up, and user obligations. Includes detailed specifications for TF-HM series models.</p>