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INXING TF-100

INXING TF-100 Electric Scooter LCD Instrument and Throttle Controller User Manual

Model: TF-100

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your INXING TF-100 Electric Scooter LCD Instrument and Throttle Controller. The TF-100 is a versatile 5-pin display and accelerator designed for various electric scooters, offering real-time data and enhanced control.

Safety Information

- Always ensure the scooter is powered off before installation or maintenance.
- Consult a qualified technician if you are unsure about any installation steps.
- Do not attempt to modify the device beyond the instructions provided.
- Keep the device away from extreme temperatures and direct sunlight.
- While the instrument is waterproof, avoid prolonged submersion or high-pressure water jets.

Product Overview

The TF-100 combines an LCD display and a finger hook accelerator into a single unit. It provides essential riding information and control over your electric scooter.

Figure 1: The INXING TF-100 Electric Scooter LCD Instrument and Throttle Controller, showing the display, finger hook accelerator, and 5-pin connector.

Figure 2: Side view of the TF-100 unit, illustrating its compact design and mounting bracket.

Key Features:

- **LCD Display:** Real-time display of speed, mileage, battery voltage, and remaining power.
- **Accelerator Function:** Integrated finger hook accelerator for speed control.
- **Voltage Compatibility:** Supports 36V, 48V, 52V, and 60V systems (default 60V, adjustable).
- **5-Pin Connector:** Standardized connection for compatibility with Protocol 2 controllers.
- **Waterproof Design:** Ensures stable operation in humid conditions.
- **Safety Functions:** Includes electronic brake assistance and low voltage protection.

Setup and Installation

The TF-100 is designed for straightforward installation. Ensure your scooter is powered off before beginning.

What's in the Box:

- TF-100 Instrument (1)
- Wrench (1)
- Screws
- User Manual (this document)

Figure 3: The TF-100 package contents, showing the display unit, connecting cable, adjustment wrench, and mounting screws.

Installation Steps:

1. **Mounting:** Attach the TF-100 unit to your scooter's handlebar using the provided screws and wrench. Ensure it is securely fastened and positioned for easy viewing and access to the accelerator.
2. **Connection:** Locate the 5-pin connector on your scooter's controller. Connect the TF-100's 5-pin cable to this port. Ensure the connection is firm and secure. The TF-100 operates using Protocol 2, ensuring compatibility with controllers supporting this protocol.
3. **Voltage Setting (P03):** The default voltage setting for the TF-100 is 60V. If your scooter operates on a different voltage (36V, 48V, or 52V), you must adjust the P03 setting.
    - Power on the scooter.
    - Press and hold the **Power** and **Mode** buttons simultaneously to enter the settings menu.
    - Navigate to the P03 setting.
    - Adjust the value to match your scooter's battery voltage (e.g., 36 for 36V, 48 for 48V, etc.).
    - Save the setting and exit the menu.

Figure 4: The TF-100 unit installed on a scooter handlebar, showing the display and connected wiring.

Operating Instructions

Once installed and configured, the TF-100 provides intuitive control and information.

Power On/Off:

- Press and hold the **Power** button to turn the instrument on or off.

Display Functions:

The LCD displays various parameters:

- **Speed:** Current riding speed.
- **Mileage:** Displays both single trip mileage and cumulative mileage (ODO).
- **Battery Voltage:** Real-time battery voltage.
- **Residual Power:** Battery level indicator.
- **Gear:** Current gear setting.

Changing Display Modes:

- Short press the **Mode** button to cycle through different display contents, such as time, single mileage, and cumulative mileage.

Accelerator Operation:

Use the finger hook accelerator to control the scooter's speed. The display will show the current speed as you accelerate.

Video 1: Demonstration of the TF-100 electric scooter instrument in operation, showing how to power on, cycle through display modes, and use the accelerator to view speed changes.

Video 2: A closer look at the TF-100 Electric Scooter Hook Accelerator, demonstrating its physical movement and integration with the display unit.

Clearing Data:

- To clear single trip mileage or other temporary data, perform a long press on the**Mode** button when the relevant data is displayed.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your TF-100 instrument.

- **Cleaning:** Wipe the display and unit with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Water Resistance:** The unit is waterproof, but it is not designed for submersion. Avoid exposing the connectors to excessive moisture.
- **Connection Check:** Periodically check that all connections, especially the 5-pin connector, are secure and free from corrosion.
- **Storage:** When not in use for extended periods, store the scooter and instrument in a dry, cool place.

Troubleshooting

If you encounter issues with your TF-100, refer to the following common solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Display not turning on.	Loose connection, low battery, power button issue.	Check 5-pin connection. Ensure scooter battery is charged. Press power button firmly.
Incorrect speed/mileage displayed.	Incorrect P-setting (e.g., wheel size, speed limit).	Consult your scooter's main controller manual for specific P-settings related to speed and wheel diameter, and adjust accordingly if the TF-100 allows.
Accelerator not responding.	Loose connection, internal fault.	Check 5-pin connection. Ensure the scooter is powered on and ready to ride. If the problem persists, contact support.
Incorrect voltage reading.	P03 setting mismatch.	Adjust the P03 setting to match your scooter's battery voltage (36V, 48V, 52V, or 60V) as described in the Installation section.

Specifications

Feature	Detail
Model Name	TF-100 Electric Scooter LCD Instrument and Accelerator
Brand	INXING
Voltage Compatibility	36V, 48V, 52V, 60V (adjustable via P03)
Connector Type	5-Pin (Protocol 2)
Material	ABS
Color	Black
Item Weight	0.2 Kilograms
Dimensions (Approx.)	5.91 x 4.72 x 2.36 inches (Package)

Figure 5: Detailed dimensions of the TF-100 unit for reference during installation.

Warranty

The INXING TF-100 Electric Scooter LCD Instrument and Throttle Controller comes with a**180-day warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.
Please retain your proof of purchase for warranty claims.

Support

For further assistance, technical support, or warranty inquiries, please contact your retailer or the manufacturer directly. Refer to the product packaging or the seller's information for contact details.

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