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› mGYDY 36V 48V 750W KT 25A Electric Bicycle Controller Kit Instruction Manual

mGYDY 25A Electric Motor Controller+LCD5 Display+TT009 Thumb Throttle+1 T 4 Cable

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Brand: mGYDY | Model: 25A Electric Motor Controller+LCD5 Display+TT009 Thumb Throttle+1 T 4 Cable

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your mGYDY 36V 48V 750W KT 25A Electric Bicycle Controller Kit. Please read this manual thoroughly before use to ensure proper function and safety.

PACKAGE CONTENTS

The following items are included in your package:

- 1 x 25A Electric Motor Controller
- 1 x LCD5 Display
- 1 x TT009 Thumb Throttle
- 1 x 1T4 Cable



Figure 1: Overview of the mGYDY Electric Bicycle Controller Kit components.

Video 1: Unboxing and overview of the Electric Bike Brushless Controller Kit components.

SPECIFICATIONS

Feature	Description
Item Type	Controller
Material	Aluminum Alloy, ABS
Controller Box Size	Approx. 125x66x39mm / 4.9x2.6x1.5in
Controller Type	Brushless Motor Controller
Connector Type	Waterproof Connector
Maximum Current	25±1A

Feature	Description
Rated Voltage	DC 36V / 48V
Speed Setting	1-4.2V
Rated Current	12A
Brake Input	Low Level
Low Voltage Protection	DC 30/40±0.5V
Applicable Motor	Usually 750W Motor
LCD5 Display Type	GD01 (or S866 as per video)
LCD5 Line Length	225mm (WP Plug)
TT009 Throttle Type	Quick Thumb Throttle
TT009 Throttle Material	PC+ABS
TT009 Throttle Voltage	12V 24V 36V 48V 52V 60V 72V
TT009 Throttle Installation	Right and Left

KT-25A



Figure 2: Controller dimensions and basic specifications.



TYPE : LCD5 Display



PLUG : Waterproof Plug



Line Length : 225mm(WP Plug)



VOLTAGE: 24V/36V/48V



COLOR : Black



WEIGHT : 68G

Figure 3: LCD5 Display dimensions and specifications.

PRODUCT PARAMETER

ELECTRIC BICYCLE PART & ACCESSORIES SCOOTER BIKE THROTTLE

●EASY TO INSTALL

●DURABLE

●GOOD MATERIAL

●FULL FUNCTIONING



● Type: Quick Thumb Throttle	● Plug: 3pin SM Plug/WP Plug
● Material: PC+ABS	● Color: Black
● Weight: about 26g	● SM length: 180cm(SM)
● Use: Mountain Bikes/Road Bicycles	● WP length: 25cm(WP)
● Voltage: 12V 24V 36V 48V 52V 60V 72V	● Installation: Right and Left

Figure 4: TT009 Thumb Throttle specifications.

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your e-bike kit. Ensure all connections are secure and waterproof where applicable.

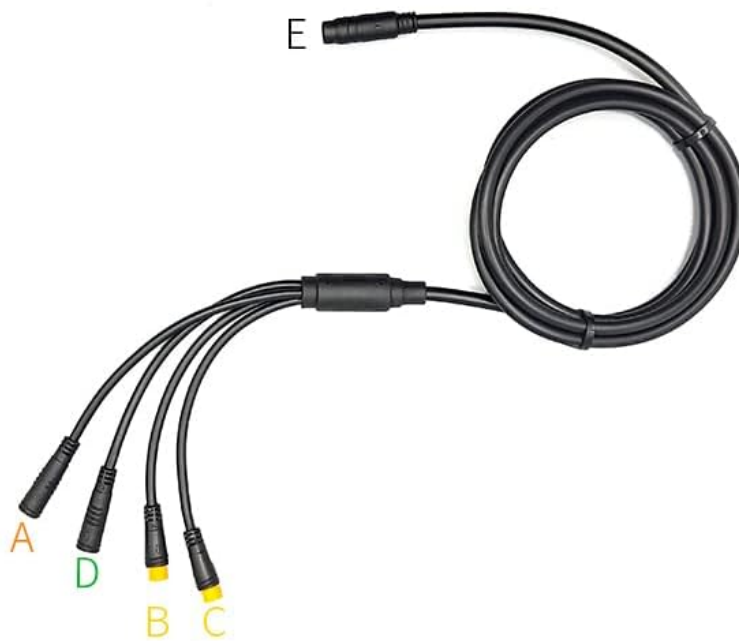
Controller Wiring Instructions

Connect the corresponding line interfaces as described below to enable the kit's functions. It is essential to use this kit with a brushless motor and it is only compatible with KT series instrument products.

1. **Black Long Wire:** Connect to the Motor Wire.
2. **Red and Black Single Big Wire:** Connect as the Power Cord.
3. **Black Long Wire (Fine Hole):** Connect to the One for Four/One for Five (9 Cores) cable.
4. **Black Line and Red Head:** Connect to the Light Line.
5. **Black Wire and Yellow Head:** Connect to the Power Assist Sensor Wire.



Figure 5: Controller wiring diagram showing various connections.



 A 3 PIN FEMALE	 B/C 3 PIN MALE	 D 5PIN FEMALE	 E 8PIN MALE
 Throttle	 Brake Sensor	 Display	 Controller

Figure 6: 1T4 Cable product connector details.

Display and Throttle Installation

The LCD5 display features an open design for easy installation on 22mm diameter handlebars, eliminating the need to remove the bike handlebars. The 1T4 cable connects the display, thumb throttle, and two brake levers to the controller.

Removable screws for easy installation

It is easy to install without removing other accessories. Fully functional, high-definition LCD display, clear display in the sun.



Figure 7: LCD5 Display easy installation feature.

Video 2: Detailed demonstration of controller plug connections, including phase position, display, throttle, Hall sensor, battery, and e-brakes. Also shows display testing and parameter settings.

OPERATING INSTRUCTIONS

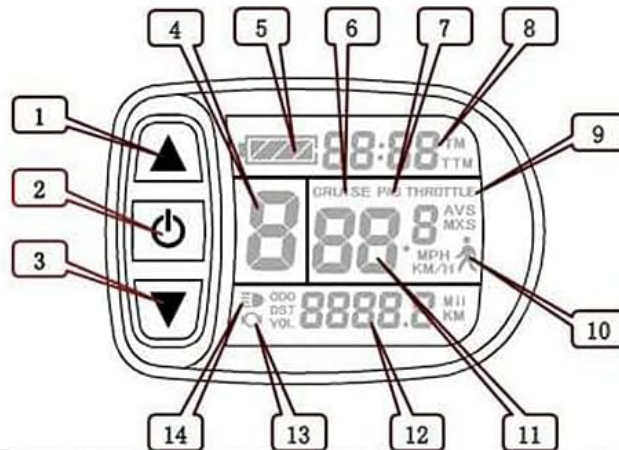
The LCD5 display provides various user parameter setting functions to customize your e-bike's performance.

LCD5 Display Functions

The display shows speed, PAS level, battery level, total mileage, single mileage, light indication, single trip time, and error codes. Refer to the diagram below for button functions and display indicators.

Dear customer, please read this manual before you use KT-LCD5 instrument. The manual will guide you use the instrument correctly to achieve a variety of vehicle control and vehicle status displays.

Functions and Display



1		UP button	11	Km/H	Riding speed(metric)
2		SW button		MPH	Riding speed (imperial)
3		DOWN button		MXS	MAX speed
4	ASSIST	Pas level		AVS	Average speed
5		Battery capacity indicator	12	Km	Distance(metric)
6	CRUISE	Cruise function		Mil	Distance (imperial)
7	PAS	Power-assisted function		DST	Trip distance
8	TM	Single trip time		ODO	Total distance
	TTM	Total trip time		VOL	Battery voltage
9	THROTTLE	Throttle display	13		The brake display
10		6Km/H push power assist	14		Backlight and headlights

Figure 8: KT-LCD5 e-Bike Display User Manual - Functions and Display.

Parameter Settings

The display allows setting and adjusting motor parameters, speed measurement parameters, speed limit parameters, power parameters, power auxiliary control parameters, minimum controller voltage, and maximum current parameters. To enter parameter setting mode, press and hold the '+' and '-' buttons simultaneously. Use the '+' and '-' buttons to navigate and adjust values. Press the 'M' button to save and exit.

- **P01:** Backlight brightness (1-3 levels)
- **P02:** Change metric (0: Km, 1: Mile)
- **P03:** Battery voltage setting (24V/36V/48V/60V/72V, default 36V). Adjust 36V-60V voltage.
- **P04:** Hibernate mode time (1-60 minutes, 0: never enter this mode)
- **P05:** Total assist levels (0-5 levels)
- **P06:** Wheel size (inch)
- **P07:** Speed calculation (number of magnets for speed calculation, range: 1-255)
- **P08:** Speed limit range (0-100km/h)
- **P09:** Zero speed start (0: zero start, 1: non-zero start)

- **P10:** Driving mode selection
- **P11:** Assist sensitivity
- **P12:** Assist starting power
- **P13:** Assist disc type
- **P14:** Current limit of controller
- **P15:** Low voltage protection setting of controller
- **P16:** ODO distance reset
- **P17:** Cruise mode selection
- **P18:** Speed ratio
- **P19:** Assist level
- **P20:** Protocol selection

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your e-bike kit.

- Keep all components clean and free from dust and debris.
- Regularly check all electrical connections for tightness and signs of wear.
- Ensure waterproof connectors are properly sealed to prevent moisture ingress.
- Inspect cables for any damage or fraying and replace if necessary.
- Store the e-bike in a dry environment when not in use.

TROUBLESHOOTING

If you encounter issues, refer to the error codes displayed on the LCD5 and the following general troubleshooting tips.

Error Codes (from LCD5 Display)

Code (Decimal)	Description
E00	Normal
E01	Reserved
E02	Brake Error
E03	Assist Sensor Error
E04	6KM/H Push Mode
E05	Cruise Mode
E06	Battery Low Voltage Protection
E07	Motor Error
E08	Throttle Error
E09	Controller Error
E10	COM Receive Error
E11	COM Send Error

Code (Decimal)	Description
E12	BMS Communication Error
E13	Head Light Error

For any error code, first check all connections. If the issue persists, consult a qualified technician.

WARRANTY AND SUPPORT

Warranty Information

This product comes with a **1 Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects under normal use conditions.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact mGYDY customer support through your retailer or the official mGYDY website.

