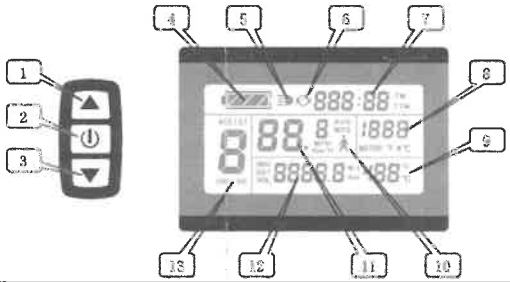
KT-LCD3 e-Bike Display User Manual V3.0

Dear customer, please read this manual before you use KT-LCD3 instrument. The manual will guide you use the instrument correctly to achieve a variety of vehicle control and vehicle status displays.

Functions and Display

Instruments using the structure form of instrument body portion and the operation buttons are designed separately.



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

Operation

1. ON/OFF

Hold button long to turn on the power, and hold button long for a second time to turn off the power. When the motor stops driving and when the e-bike is not used for a consecutive 5 minutes, it will automatically shut down and turn off the motor power supply.

2. Display 1

Hold button to start up and enter display 1.

2.1 Turn on backlight and headlights

Hold button long to turn on backlight and headlights (the controller should have headlight drive output function); hold button long again to turn off the backlight and headlights.

2.2 Assist ratio gear (ASSIST) switch

Hold or button shortly to switch 1-5 file gear. Gear 1 is for the minimum power, gear 5 is for the highest power. Each startup will automatically restore the gear shutdown last time (the user can set randomly). Gear 0 is without booster function.

2.3 6KM/H assist promotion function

Hold button and flashes, the vehicle drives at the speed not more than 6Km /h. Release button, the function is invalid.

2.4 Cruise function

After the cruise function is turned on, the trip riding speed is greater than 7 km/ h, hold button long and enter cruise, the CRUISE lit. Brake or hold any button to cancel.

2.5 Display and delete of single data

After power on for 5 seconds, hold and button at the same time, single trip riding time (TM) and single trip distance (DST) flash, hold button shortly, the content of both is cleared. If failed holding the button within 5 seconds, it will automatically return the display interface after 5 seconds, original content is preserved.

3. Display 2

Hold button shortly in display 1 to enter display 2.

In the riding mode after 5 seconds, display 2 automatically returns to display 1, and the original motor power (MOTOR W) display is replaced with motor operating temperature display (MOTOR ℃)

display (the internal motor should be equipped with the temperature sensor and the output of temperature detection signal).

4. Display 3

Hold ⏻ button shortly in display 2 to enter display 3.

In the riding condition, five seconds later, a single maximum speed (MXS) display automatically returns to the real riding speed (KM/H).

5. In display 3, hold ⏻ button shortly (SW),and the display will re-enter display 1.

6. Hold ⏻ button to turn off the display and the power supply of controller.

7. Automatically prompt interface

7.1 Error Code Display

Error Code	Definition
01__info	Throttle Abnormality
03__info	Motor hall signal Abnormality
04__info	Torque sensor signal Abnormality
05__info	Axis speed sensor Abnormality(only applied to torque sensor)
06__info	Motor or controller has short circuit Abnormality

Electronic control system failure will display (flashing) fault code. Once the fault was removed, it automatically exits from the fault code display interface.

7.2 Motor temperature alarm

When the motor temperature (the internal motor should be equipped with the temperature sensor and the output of temperature detection signal) is over the warning value, MOTOR ℃ (℉) flashes to alarm at any display, meanwhile the motor controller will offer the appropriate protection to motor.

General Project Setting

1. Set maximum riding speed

After power on for 5 seconds, hold ▲ and ▼ button at the same time, maximum riding speed KM/H and MXS flash, hold ▲ or ▼ button shortly to set the maximum riding speed (default 25KM/H). Hold ⏻ button shortly and go to the next parameter settings.

2. Wheel diameter setting

The wheel diameter will be set after finishing setting the maximum riding speed, wheel diameter specifications flashes. Hold ▲ or ▼ button shortly to set the specifications of wheel diameter.

Select the range 6,8,10,12,14,16,18,20,22,24,26,700c and 28 inches. Hold ⏻ button shortly and go to the next parameter settings.

3. Set the metric units

The metric units will be set after finishing setting wheel diameter, KM/H and Km flash. Hold ▲ or ▼ button shortly and select the three metric units of speed, mileage, and ambient temperature in synchronization.

Display	Metric	Imperial
Riding speed	KM/H	MPH
Total distance	Km	Mil
Environment temperature	℃ Temperature	℉ Fahrenheit

4. KM/H and Km stop flash after metric unit setting is completed. Hold ⏻ button shortly again to re-enter the maximum riding speed setting interface; or hold ⏻ button long to exit from setting environment of routine projects and save the setting values, returning to display 1.

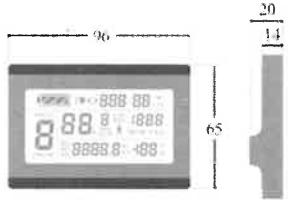
5. Exit from routine project setting

All three routine project settings can exit from the setting environment and return to the display if hold ⏻ button long after each setting is completed, meanwhile the setting values are saved.

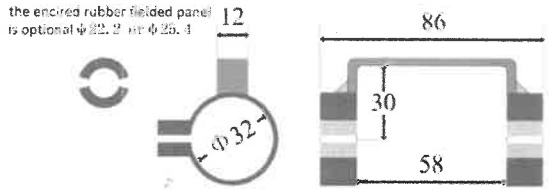
Under each setting interface, if the button failed holding for more than 1 minute, it will automatically return to display 1, and the setting value is invalid.

Outline Drawings and Dimensions

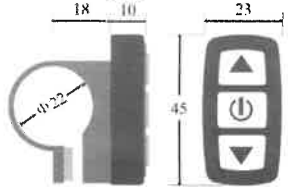
1. Dimensions of main instrument body



2. Mounting dimensions of double brackets



3. Dimensions of button box



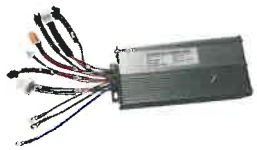
4. Wiring diagram

E-Bike Conversion Kits Installation Manual

----------Shanghai CSC Sports Co.,LTD

Part One: Getting started

Please the parts included list below:

	Hub Motor wheel		Controller
	LCD Control Panel		Twist Throttle
	Brake Lever		Pedal Assistant Sensor
	Cable Tie and Winding Tube		Controller bag

Part Two: Tools needed

Which Tool do you need for installing

List:

A) Adjustable Wrench

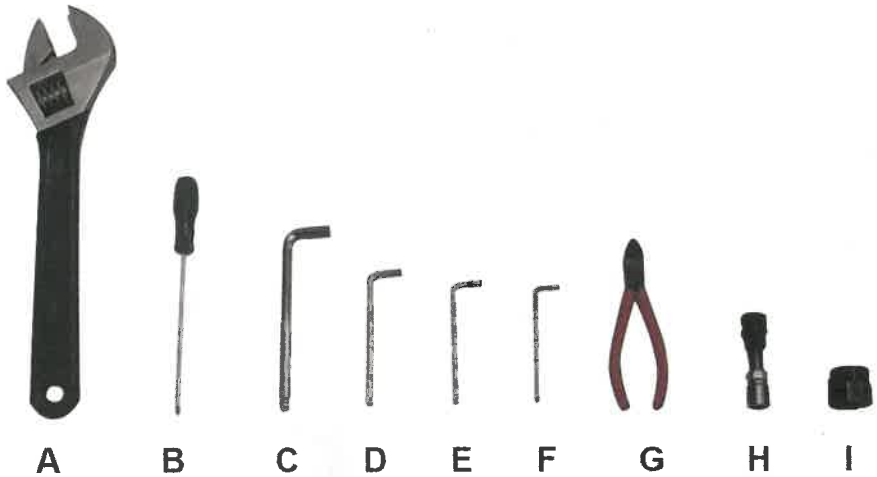
B) Phillips Screwdriver

C.D.E.F)4pcs Socket Head Wrench with diameters 3.0mm,4.0mm,5.0mm,8.0mm

G) Diagonal Cutting Nipper

H) Puller

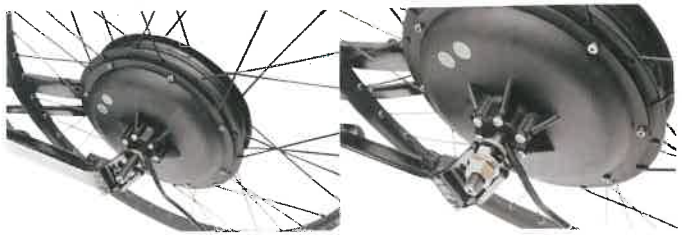
I) Socket Wrench



Part Three: Removing and installation of the wheel

1) Remove the original wheel.
2) Install the new one, fasten nuts on both axles.

Install your own disc brake rotor on motor wheel(if your ebike use disc brake)
Put the motorized wheel in the front fork or frame.
Please try the disc brake rotor position, If the distance between rotor and fork or frame less than 15mm, then please put a washer between motor axle and fork or frame to adjust the distance.
Fasten all nuts.



Part Four: LCD Control Panel Installation

LCD Control Panel has 2 parts: LCD Display with operation keyboard,Installation Bracket
Installation Guide:
Wind several layers of Glue tape on handlebar so that the LCD clipper just fit it.
Install operation Key at left side(or right side)
Clip LCD on handlebar
Fasten two nuts

Part Five: Brake Levers Installation

Brake Levers has 2 parts:Left Brake Lever,Right Brake Lever

Installation Guide:

Remove original brake levers and install all new one

Put brake levers into both side of the handlebar. Hold the hand lever to find a comfortable position then fix it with 5.0mm socket head wrench.

Part Six: Twist Throttle Installation

Twist Throttle has 3 parts: Half-bar Twist Throttle, Left Side Grip, Right Side Grip.

Installation Guide:

Install left side grip, install right side throttle and fastern with 3.0mm Socket Head Wrench,Install right side grip.

Part Seven: PAS Installation

PAS has two parts: PAS Sensor, Magnetic Ring

PAS(Pedal Assistance Sensor),also known as pedelec system. Is a necessary componet of an electric bike in European countries. PAS controls the power supplied to the motor through the angular velocity pedal(i.e.the faster the pedal turns, the faster the motor runs).

Removing your bike rightside chainwheel, put the PAS signal receiver ring into the axle and fasten it by ring washer and then put the outer magnetic ring next to the ring washer.Make sure they do not contact each other by using washers and with less than 5mm distance. Please also check the magnetic ring was installed with correct rotation direction(you will see the rotation arrow on it).now you can install the chainwheel and fasten it.

Installation Guide:

Romove left and right sides cranks

Romove Chainwheel

Romove Bottorn Bracket

Install PAS Sensor at right side

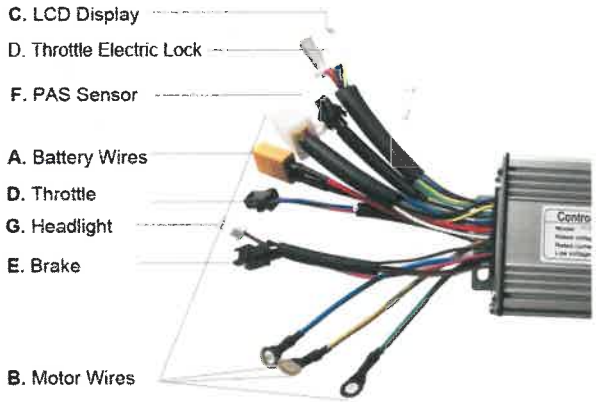
Install Bottom Bracket

Install plastic magnetic ring, please make sure rotation direction is correct and distance to PAS sensor is less than 5mm.

Install Chainwheel and cranks.

Part Eight: Controller Connection

Please find suitable position to put controller on your ebike



A. Power Supply Cable (XT60 Plug):

Controller Side	Power Supply Cable Side
XT60 Male	XT60 Female
Positive (Red)	Positive(Red)
Negative(Black)	Negative(Black)

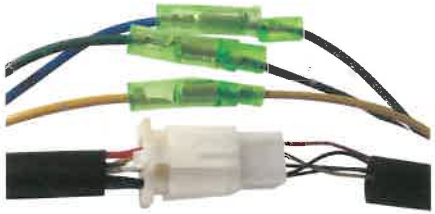
B. Motor Cable Connection(3-Phase+ 5-hall sensor):

(1)3-Phase: MT60 Plug

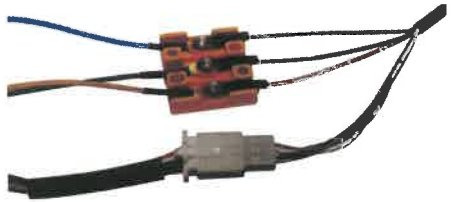
Controller Side	Motor Side
O Ring	O Ring
Blue	Blue
Green	Green
Yellow	Yellow

(2).5-hall Sensor:White DJ7061-2.8-21 Female and Male Plugs.

Controller Side	Motor Side
DJ7061-2.8-21 Female	DJ7061-2.8-21 Male
Red	Red
White	If your motor has internal speed detector hall sensor. Please plus this ,otherwise just keep it empty.
Black	Black
Yellow	Yellow
Green	Green
Blue	Blue



Or



If you want motor rotate as reverse direction with original speed.then just exchange two wires of phase and hall sensor wires:

Phase Wire: exchange Yellow and Blue

Hall Sensor Wire:exchange Yellow and Green

C. LCD Control Panel Connection: White SM-5A Male and Female plugs

Controller Side	LCD Side
SM-5A Male	SM-5A Female
Pink	Red
Blue	Blue
Black	Black
Green	Green
Yellow	Yellow

If you don't want to use LCD, please just plug the jumper connector as follow photo(connect pink and blue,yellow and black)

D: Throttle Connection:

(1). Electric Lock: White 2.8B-2 Female and Male Plugs

Controller Side	Throttle side
2.8B-2 Female	2.8B-2 Male
Red	Green
Pink	Yellow

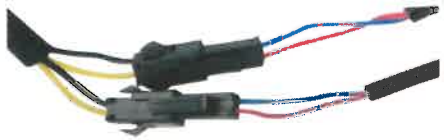
(2).Throttle Speed Control:Black SM-3Y Female and Male plugs

Controller Side	Throttle Side
SM-3Y Female	SM-3Y Male
Red	Red
Black	Black
Blue(Signal)	White(Signal)

If you use your own throttle and without electric lock,then please just short circuit as follow photo:

E: Brake Levers Connection:2x Black SM-2Y Female and Male plugs

Controller Side	Brake Side
2x SM-2Y Female	2xSM-2Y Male
Black	Blue
Yellow	Red



F. PAS Connection: Black SM-3A Male and Female plugs

Controller Side	PAS Side
SM-3A Male	SM-3A Female
Brown	Brown
Black	Black
Yellow(Signal)	Yellow(Signal)

G. Head Light Connection: SM-2Y Male and Female plugs
Head light will be controlled LCD,36V or 48V output(according to battery you use),can take Power 2W, Max current 50mA

Controller Side	Head Light Side
SM-2Y Female	SM-2Y Male
Orange	head light positive wire
Black	head light negative wire

Part Nine: Checking list : (Turn off the battery)

1) Wheel is secured in place.
2) Rear wheel is vertically aligned with Front wheel.
3) Wheel has no loose parts.
4) All components on the handlebar have been secured tightly.
5) The position for throttles and brake levers etc.is comfortable.
6) The Steering bar can rotate freely.
7) The brakes work properly.
8) Make sure that the battery poles are correctly connected.

If there are no problems, turn on the battery and go for a test riding.
Please obey and follow your local laws & regulations!
Please wear helmet!

Congratulations!
You have completed your own DIY eBike!

1Cs:

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(1624W4)

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