
Open Road Electric - ORE Foldable Fat Step Thru & Step Over eBike Display Operation for KT-LCD5

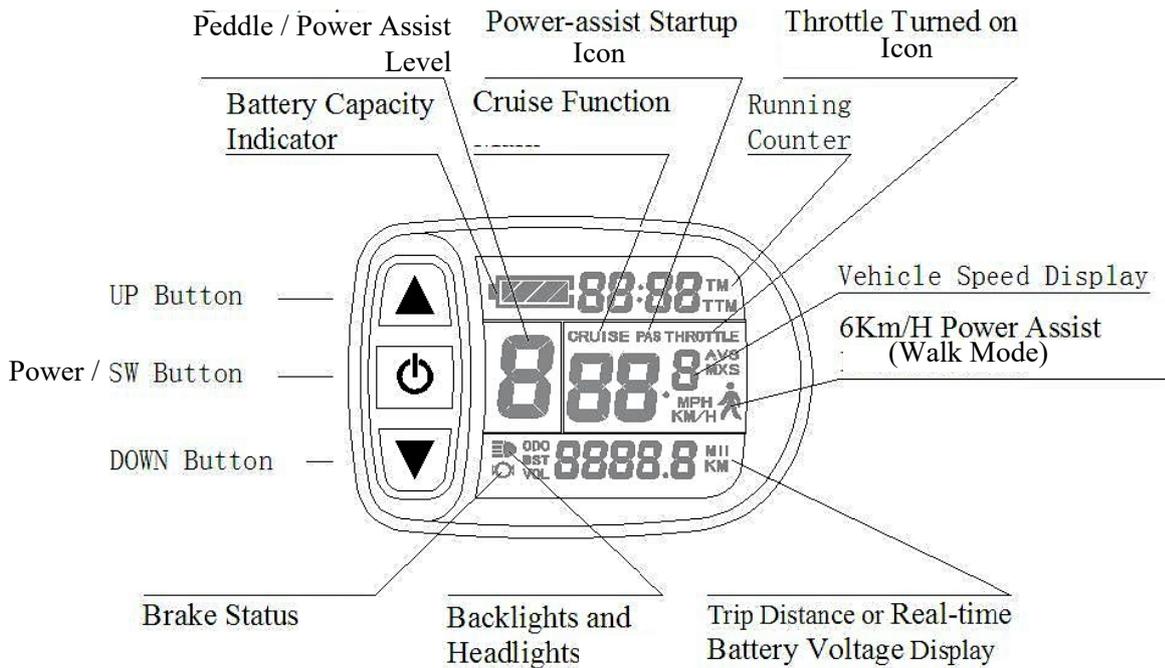


Overview

Your ebike electronics are composed of an incredible transport system with a battery, motor (rear hub), controller (cpu), display (dashboard), sensors, and cabling. The display allows you to control and view your ebikes operation, including:

- ◇ Trip time display (current trip time (TM) and total trip time (TTM));
- ◇ Trip speed display (real-time speed (in Km/H or MPH), maximum speed (MXS), and average speed (AVS))
- ◇ Trip distance display (current trip distance (DST) and total distance (ODO))
- ◇ Throttle on indicator (THROTTLE);
- ◇ Peddle / Power Assist on (PAS);
- ◇ Peddle Assist level;
- ◇ 6Km/H Walk mode();
- ◇ Cruise function (CRUISE);
- ◇ Battery capacity indicator ();
- ◇ Real-time battery voltage (VOL) display;
- ◇ Brake display ();
- ◇ Turn on lights & screen backlight ();
- ◇ Data clearing;
- ◇ Fault code display;
- ◇ User parameter settings

Display Description



Control Keys

The three keys that control your display & bike operation, are:

Power Button (aka software button (SW)) 

DOWN Button 

UP Button 

Important Note: The system has a timer, and therefore ...

- A short press on the power button is a press of approximately 1 second
- A long press on the power button is 2+ seconds

Normal Operation

- **On/Off**  Short press to power on (of course battery must have at least a minimum charge).

Long press again to power off.

Note: **When the bike is stopped and without any button operation for five minutes the bike will power off automatically.**

Display Interfaces 1-3

There are three display screens with information available to you as you ride, and to switch between them simply "quick press" the power button. The information is presented as numerals or icons. After 5 seconds, the 2nd and 3rd display screens return to Display Screen 1.

Display Screen 1 Shows:

- Battery Capacity Indicator (1-4 bars)
- Current Trip Time
- Peddle Assist Level (PAS: 0-5)
- Speedometer (mph or kph)
- Current Trip Distance
- If in walk mode (holding down button continuously - careful!)
- If cruise mode is enabled (holding down
- If the lights and screen backlight are on
- If brakes are squeezed
- If throttle or peddle assist are engaged

Display Screen 2 Shows:

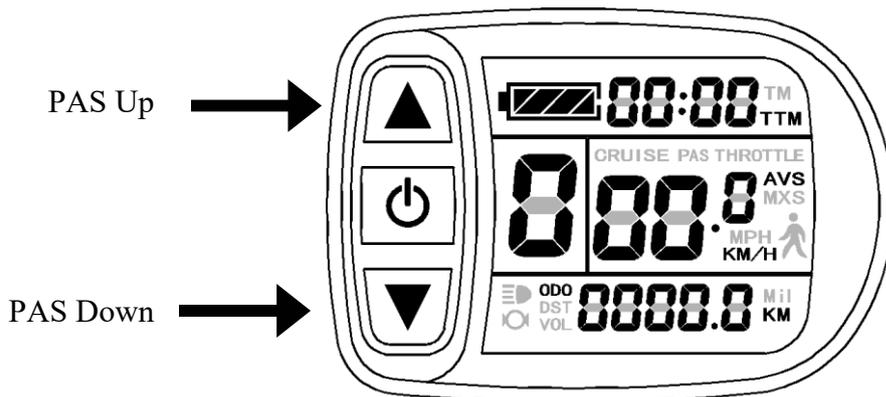
- Battery capacity, PAS, Speedometer, If icons, plus:
- Total Trip Time
- Total Trip Distance (your odometer)
- Single Average Speed

Display Screen 3 Shows:

- Battery capacity, PAS, Speedometer, If icons, plus:
- Maximum Speed
- Battery Voltage (charge level - fully charged is 52-54v)

○ Peddle Assist

Press the UP and DOWN Buttons to increase or decrease the power to the rear hub motor as you peddle; level 1 is low, level 5 is high. Level 0 - no power applied when peddling - it's all you! At Level 0, the throttle is not active either.



○ **Headlight and Backlights:**

Long Press the UP button to turn on the bike light as well as the display "backlight." The light icon will illuminate on the display. Long press again to turn off the lights.

○ **Walk Mode Indicator**

Long Press the Down Arrow and the motor is activated to help push the bike up a steep hill with you off the bike and walking it up. CAUTION - pay attention to this - don't long press the down arrow unless you are holding the bike tightly.

○ **Cruise Mode Indicator**

When traveling at least 7 K/hr (4 mph), you can enable CRUISE mode by long pressing the DOWN button, and cruise mode is enabled. Brake or press any button to turn cruise off.

○ **Battery Capacity Indicator**

When the battery capacity is over 70%, four cross bars are displayed. As the battery capacity drops, the cross bars are off in order. When the power capacity is less than 15%, the four power bars are totally turned off. When the controller is close to powering off due to voltage shortage, the cross bar frame icon flashes, indicating the bike lacks voltage and will shutdown shortly.



Voltage shortage - flashes

○ **Reset Current Trip Data**

At least 5 seconds **AFTER** powering the bike on, quick press the power button until you see Display screen 1 where your trip distance is displayed (DST). If you see ODO (odometer) or VOL (voltage) displayed, then quick press the power button until you see your DST displayed. Then press and hold both the UP and the DOWN arrows together for two seconds and your currently recorded trip time and trip distance will flicker. To clear those current values, quick press the Power button again and they will zero out. Press the power button again to return to Display screen 1 and begin your ride. Note - if the values are flickering, and there is no quick press of the power button within 5 seconds, the display will automatically return to Display 1, and the original trip content will still be in effect.

○ **Error Codes**

If the system encounters an error, the error code will display and flicker. Although very uncommon, note the error and contact the shop for assistance in trouble-shooting:

- 1) Throttle
- 2) Hall Sensor
- 3) Torque Sensor
- 4) Axis Speed Sensor
- 5) Short circuit

Programmable Settings:

There are three types of general system settings, or parameters - G, P, and C. G (for General settings) were set by Open Road prior to delivery. P and C were set at the bike factory and should not be modified, as they pertain to motor and power settings specific to the design and operation of those components.

The programming of the G settings are done as follows:

- Within five seconds of power on of the bike, press and hold the up and down arrow together for at least two seconds.

The first of the three G settings will flash - the current maximum speed setting. The pre-programmed setting is 32 kpm, or 20 mph, which signifies a Class 1 Ebike speed. When the speed of the bike on a level terrain exceeds the programmed value, the controller will reduce power to the motor. The settings can range from 10 to 72 kph (multiply by .6 to equal mph). If 72 kph speed level is selected, there is no limiting effect on the motor at any speed, even though a setting this high cannot be achieved on a level surface. A Class 3 Ebike is signified by a top-speed of 28 mph, and the program setting for this class would be 48 kph.

To change the maximum speed value, again use the up or the down arrow to move to the value you want, and then quick press the power button to save and move to the second G setting, the wheel diameter size.

This wheel size has also been preset to 20, representing the 20" diameter of the wheel. Since you won't change this value, you can quick press the power button to move to the third G setting.

The third G setting defines whether speed and distance information is displayed as metric data or imperial data, that is kilometers or miles. This has been preset to miles.

Again, quick press the power button, and the 3rd setting will be saved, and the speed and mileage display will stop flashing. If you quick press the power button again, you can begin reprogramming the G settings again, or you can long press and the settings will be saved, and you will return to Display 1, with your new settings in effect. If there is no button press for more than a minute while in the G settings (or at any display setting), you return to Display 1 without saving the changes to the three programmable settings.

The P and C parameters are not described here, since any changes can cause the ebike system to not operate properly, or cause damage to components if improperly set.

Summary:

The ORE E FAT STEP and E FAT STEP OVER can provide many enjoyable moments of recreational riding. Remember to consistently check and properly maintain your ebike and it's components:

MOTOR: 48V/500W brushless DC rear hub motor

FRAME: Aluminum alloy 6061, foldable with hinge

MAXIMUM SPEED: 20 MPH in Class1 Configuration

BATTERY RANGE: 20-40 Miles, rider dependent

BATTERY CHARGING TIME: 4 - 6 hours

BATTERY TYPE: Lithium-Ion

BATTERY CAPACITY: 48V/12.5Ah

THROTTLE: Thumb Throttle

DISPLAY: K-LCD5 panel

HEADLIGHT: Front LED Headlight

REAR RACK: Included

FENDER: Included

RIMS: 20 inch Black Alloy

SPOKES: Stainless Steel

TIRES: Kenda Krusade Sport Tires 20 x 4.0 with K-Shield Protection

GEAR SHIFTING: Shimano Derailleur 7-Speed Freewheel

SHIFTER: SHIMANO Push-Button 7 speed

SPROCKET: 48T chain-wheel crank

BRAKES: 160mm disc with Motor Cut-Off Sensor in Brake Handles

HANDLEBAR: Adjustable Stem for Comfort, and folds down - Matte Black

SADDLE: Comfort Saddle

PEDALS: High Quality Folding Nylon Pedals