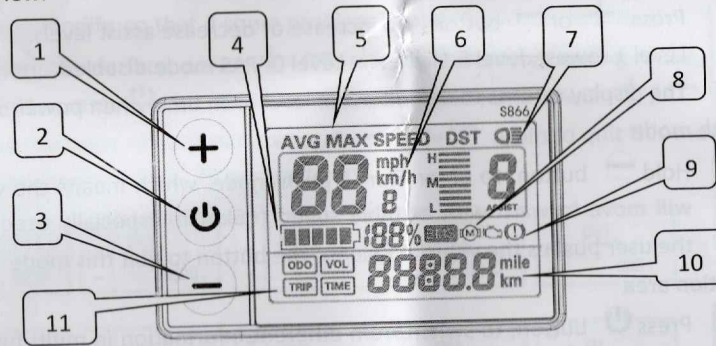# S866 Display Manual (V1)

Please read carefully this manual before use.

The display shows: speed, PAS level, battery level, total mileage, single mileage, light indication, single trip time, error code

Overview:

1	✚	Up button		7	🔆	Head light status	
2	⏻	Power on/off button			[M]	Motor failure	
3	➖	Down button			(!)	Brake status	
4	🔋	Battery level		9	mile	Distance in mile	
5	AVG	Average speed			km	Distance in km	
	MAX	Max speed			ODO	Total distance	
	SPEED	Real time speed		11	TRIP	Single trip distance	
6	mph	Speed in mph			VOL	Battery voltage in real time	
	km/h	Speed in km/h			TIME	Single trip time	

Operations:

1. Power on/off

Hold ⏻ button, to power on, and then hold ⏻ button, to power off.

When the e-Bike is not used for more than 10 minutes, the display will automatically turn off (hibernation mode).

2. Normal interface

    Hold ⏻ button to power on, to enter normal interface。

2.1 Head light control

Hold ➕ button，to turn on back light and head light at the same time.
Then hold ➕ button again，to turn off

2.2 Change assist level

Press ➕ or ➖ button，to increase or decrease assist levels.
Level 1-lowest, level 5-Highest，Level 0- PAS mode disabled
The display returns to default assist level each time when power on.

2.3 6km/h Push mode

Hold ➖ button, to enter 6km/h push mode, which means the vehicle will move forward with a stable speed (<6km/h) especially used when the user pushes the vehicle. Release the button to quit this mode
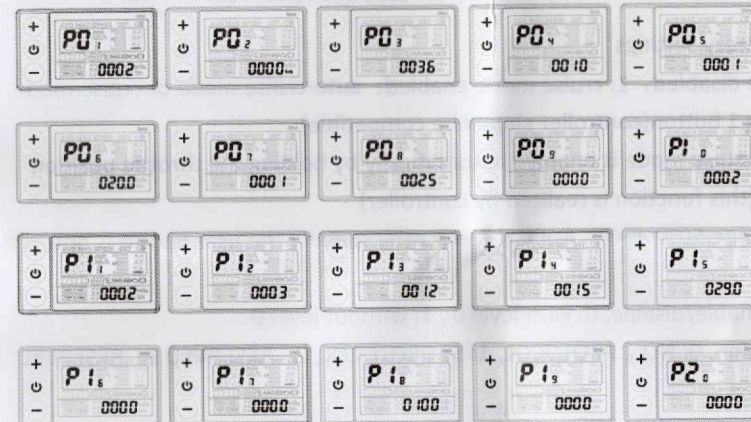
2.4 Multi-function area

Press ⏻ button, to switch from different information in multi-function area: ODO-TRIP-VOL-TIME-ODO,

3. Error codes

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
E12	BMS communication Error
E13	Head light Error

Parameter Setting mode:

This is advanced function, advice not to use
Modification of parameters will cause malfunction. Please read carefully these instructions before modifying. And please write down the previous parameter values before you modify, so that if some problem happens, you can restore it.
Under normal interface, press ➕+➖ to enter parameter setting mode, the first screen shows P01, press ⏻ to switch to next parameter, and press ➕/➖ to increase or decrease the value of each parameter. Press ➕+➖ again to quit this mode.
Under this mode, in total 20 parameters:

P01: Backlight brightness, level 1- lowest, Level 3-highest
P02: Change metric, 0: KM; 1: MILE
P03: Select battery voltage 24V/36V/48V/60V, 36V by default
P04: Hibernate mode time：from 1 to 60 minutes, 0: never enter this mode
P05: Total assist levels, 0: 3 levels; 1:5 levels
P06: wheel size in inch, step: 0.1
P07: number of magnets for speed calculation, range：1-255
P08: speed limit,range:0-100km/h，
Remark: this value is always in km/h even if the metric changed from km to mile.
P09: Zero speed start, 0: zero stat; 1: Non zero start (which means need to provide vehicle with initial speed then turn throttle will activate motor)

P10: Driving mode selection, 0：Only assist mode, 1：Only electric mode 2：Both mode –

P11: assist sensitivity: range 1-24, it sets the delay between the pedaling and motor start, smaller value means, after the user pedals over just a little angle, the motor will start working

P12: Assist starting power: range : 1-5, it sets the starting power of motor, bigger value means higher starting power

P13: Assist disc type: 5 magnets, 8 magnets, 12 magnets

P14: Current limit of controller, range 1-20A, 12A by default

P15: Low voltage protection setting of controller

P16: ODO distance reset, hold **+** for 5 seconds to reset this value, hold **–** for 5 seconds to reset factory settings

P17: 0: cruise mode disabled，1: cruise mode enabled；auto-cruise mode or cruise mode enabled by pressing 1 button(controller should be compatible)

auto-cruise mode: cruise mode is enabled automatically by holding the throttle position for several seconds(this function is realized by controller)

P18: speed ratio, range:50%~150%, used to correct the speed if the user finds it is not accurate

P19: assist level 0 enable/disable, 0: with level 0 , 1: without level 0

P20: Protocol selection, 0: NO.2 PROTOCOL, 1: 5S PROTOCOL, 2：RESERVED 3：RESERVED