

FR

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DE

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IT

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ES

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<https://online.fliphtml5.com/tpimd/tagz/>

EN

Product Specification

HB-208

Product name: Middle LCD instrument

Product model: HB-208

Customer Name: _____

I. Product introduction

HB-208 is a new type of ebike center mounted instrument panel that is easy to assemble and has strong compatibility. It has a 3.5-inch wide viewing angle display screen, paired with button switches, and can set multifunctional parameters according to user needs. It can be adapted to multiple types of two wheeled vehicles, power assisted vehicles, etc.

HB-208 is a fixed LCD display interface, with real-time speed colors available in green/white(supports LCD mold customization)

- 1.1 Working voltage: 36V/48V/60V
- 1.2 Communication Protocol: Lithium Battery No. 2 Protocol
- 1.3 Display module: 3.5-inch LCD wide-angle display screen
- 1.4 Rated power of the instrument: 1.5W
- 1.5 Maximum power of the instrument: 5W
- 1.6 USB output: DC 5V 500mA
- 1.7 Shutdown leakage current: <10uA
- 1.8 Operating temperature: -20-70 °C
- 1.9 Storage temperature: -30-80 °C

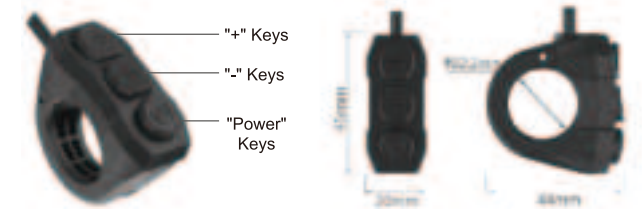
II. Product Structure

- 2.1 Product material: ABS plastic, panel made of glass bonding technology
- 2.2 Product dimensions: as shown in the following diagram(unit: mm)



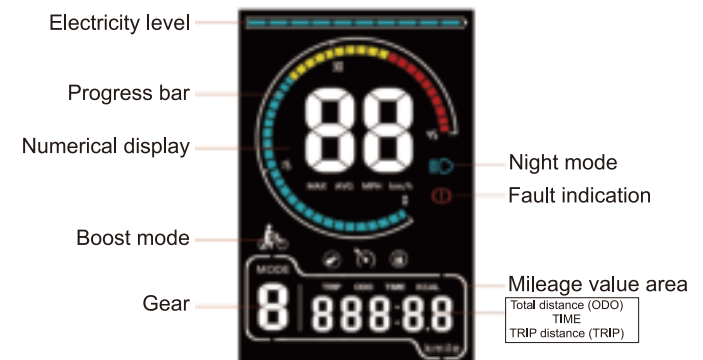
III. Button function

- 3.1 Key Description: "+" key, "-" key, power key, supports single click/double click/long press
- 3.2 Power on/off: Long press the power button to turn on/off the device; Automatically shut down without any operation for five minutes (time can be set by the user)
- 3.3 Front lights: When turned on, press and hold the "+" button; Turn on/off headlights
- 3.4 Gear: When turned on, click the "+" / "-" keys to switch to the power assist gear



IV. Display function

- 4.1 Speed display: The speed progress bar changes with real-time speed
- 4.2 Power display: 1-10 grid power
- 4.3 Gear indication: 1st to 5th gear (optional gear and adjustable speed)
- 4.4 After the instrument panel is turned on, the mileage value defaults to ODO; Click the power button to cycle between TIME and TRIP
- 4.4 Promotion mode: Long press the "-" button to enter the promotion mode, with a speed of 6km/h (some controllers do not support this function)
- 4.5 Fault indication: When the instrument detects a fault, the fault icon lights up and the numerical display area displays the fault code



V. Fault code display

When the electric control system of the power bike malfunctions, the instrument panel will automatically display a fault code. The detailed definition of the fault code can be found in the following table



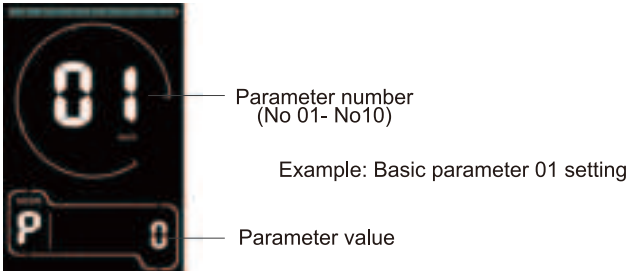
Lithium battery No. 2 protocol fault code		5S protocol fault code	
02	Brake failure	21	MOS failure
06	Undervoltage faults	22	Handlebar failure
07	Motor failure	23	Motor failure
08	Handlebar failure	24	Hall failure
09	MOS failure	25	Brake failure
14	Hall failure	26	Undervoltage faults
30	Communication failures	30	Communication failures

VI. Basic parameter settings

6.1 Parameter setting: In the power on state (when the vehicle is stationary), press and hold the "+" and "-" keys for more than 2 seconds to enter the parameter setting interface; At this time, the gear is displayed as "P"; Press and hold the "+" and "-" keys simultaneously to exit parameter settings, or automatically exit without any action for 20 seconds

6.2 Parameter Number: Click the "Power Key" to switch parameter numbers (Parameter 01-Parameter10)

6.3 Parameter values: Click the "+" or "-" keys to change the parameter values, click the "Power button" to confirm and return to the parameter number selection interface



Basic parameter number		Parameter values	Parameter values
NO 01	Toggle Unit	0~1	0: Metric, 1: English (0)
NO 02	LCD Luminance	1~4	1 is the darkest, 4 is the brightest (4)
NO 03	Sleep Time	0~60min	Set the time for automatic sleep without operation, where 0 represents no automatic sleep (10)
NO 04	Wheel	5.0~50.0	Based on actual motor settings
NO 05	Speed Limit	0~100 km/h	0: no speed limit, and the specific speed limit effect depends on the controller
NO 06	Password Setting	0~1	0: for no power-on password..... 1: for power-on password (0)
NO 07	Current Limit	10~30	10A~30A
NO 08	Cruise Control	0~1	0: Off ; 1: On (0)
NO 09	Drive Mode	0~2	0: pure power assist, 1: pure electric, 2: hybrid mode (2)
NO 10	Gear number	3、 5	3: 0-3 ; 5: 0-5 (5)

* Note: The parameter values in parentheses above are our company's default settings, and the data is for reference only. Actual testing shall prevail.

IX. Warranty

9.1 The warranty period of the product is within 12 months from the date of the instrument leaving the factory.

9.2 Non warranty scope

- The shell is opened
- The connector is damaged
- After the instrument leaves the factory, the outer shell is scratched or damaged
- Scratches or fractures on instrument lead wires
- Malfunctions or damages caused by force majeure (such as fire, earthquake, etc.) or natural disasters (such as lightning strikes, etc.)
- The product has exceeded the warranty period

X. Precautions

10.1 Pay attention to safety during use and do not plug or unplug the instrument when powered on;

10.2 The instrument is a sensitive device, try to avoid collision as much as possible, and pay attention to moisture-proof and waterproof during storage;

10.3 Regarding the backend parameter settings of the instrument, please do not change them arbitrarily, otherwise normal riding cannot be guaranteed;

10.4 When the instrument cannot be used normally, it should be sent for repair as soon as possible;

10.5 Our company reserves the right to continuously develop and improve our products, as upgrades to our products may result in differences in the displayed content or functions of the products you receive from the specifications. Please refer to the actual product for details.