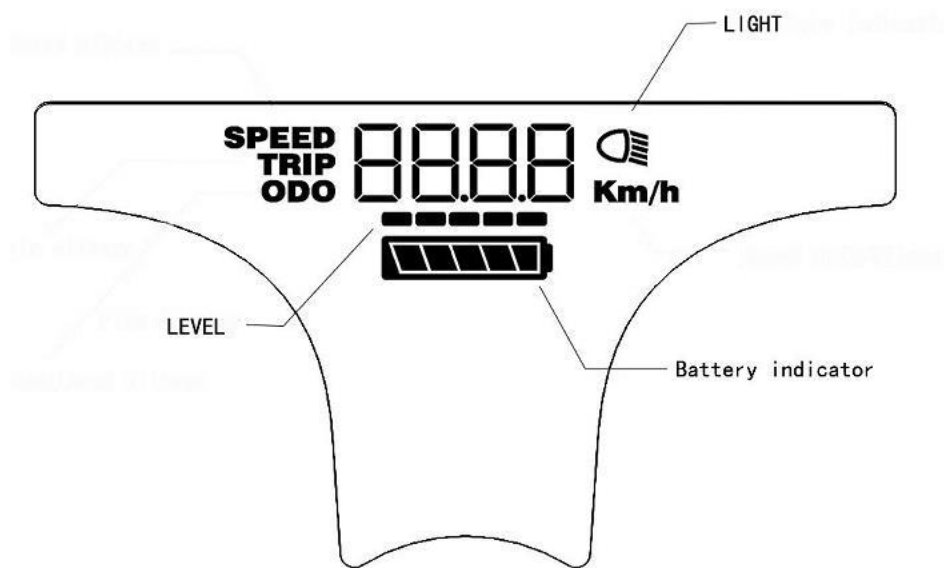# WATT

Manual WATT Brooklyn

Preface

Please read the manual in advance to ensure the best performance of your e-bike. This user manual covers: Hardware installation, configuration and normal operation. It will also help to clear any confusion and offers assistance in troubleshooting any malfunctions.

In the following instructions: = MODE = UP = DOWN

1. Display

2. Precautions

Avoid bumps or shocks to the screen

Do not remove the waterproof film attached to the screen as it may affect the waterproofing.

In case of errors or defects, the display should be returned to your local supplier for repair/replacement.

3. Operation

3.1 Power ON/OFF.

Press and hold M for a few seconds to turn both the display and the controller on or off. When the power is off, the display no longer consumes power.

The bike will automatically turn off if not used for 10 minutes.

3.2 Selecting Mode

When the display is turned on, the default mode is Current Speed. Pressing M cycles through the other modes in the order: Current Speed → TRIP → ODO. If the current speed exceeds 0 km / h, the mode returns to Current Speed after 2 seconds.

Resetting TRIP mode is done as follows: press the M button until you get to TRIP, then hold down the M and DOWN for 5 seconds. TRIP resets automatically.

3.3 Rear light

Press and hold UP briefly to turn the tail light on/off.

3.4 PUSH Assistant

Press and hold DOWN to enter push assist mode. The motor causes the bike to drive 6 km / h.
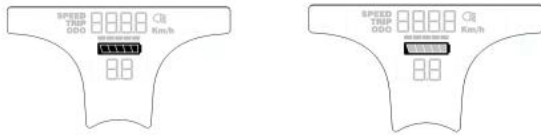
3.5 Support level

Press UP and DOWN to change the support level and change the output power of the motor. The range of support level is 1-5.
Level 1 is the lowest and level 5 is the highest. The standard level is level 1.

3.6 Battery indicator
When the battery is full, all five segments of the battery are illuminated. When the battery is low, the battery has no segments and flashes.

3.7 Error codes
When the system encounters an error, the display shows the error code. Only when the problem(s) are resolved does the display return to normal functionality. The e-bike will not operate properly as long as an error code is displayed.

Error code	Meaning	Solution
21	Abnormal Current	Check if the phase of motor is short circuiting
22	Abnormal throttle	Check that the throttle is not in it's active state
23	No-phase state	Check if the phase wire is normal Check if the cable is firmly connected with controllers
24	Abnormal Hall Signal	Controllers without hall sensors: Check that the phase wire is normal Controller with hall sensors: check if the hall wire is normal
25	Abnormal brake	Check that the brake is not being applied
30	Abnormal Communication	Check if the display and controller are connected properly

4. Settings

Press and hold UP and DOWN for 2 seconds to access settings. Press MODE to exit settings.

4.1 Speed limit and wheel size
The first setting is the speed limit. Press UP or DOWN to select a value and press MODE to set it. Pressing MODE also moves to the next setting in the following order: Speed Limit (km / h) → Wheel Size (inch) → Speed Limit. The speed limit can be set up to 25km/h.

Optional wheel size settings are: 16 inch, 18 inch, 20 inch, 22 inch, 24 inch, 26 inch, 700C, 28 inch. The default value is 26 inches. Press UP or DOWN to change the wheel size, then press MODE to confirm.

5. Wiring

Terminal   Male Connector   Female Connector

5.2 Order of standard connectors

Num.	Wire color	Function
1	Red (VCC)	Power cable display
2	Blue (K)	Power cable controller
3	Black (GND)	GND
4	Green (RX)	Data in
5	Yellow (TX)	Data from

6. Product code

The product code is usually on the back of the screen in two rows:

Row 1: 500101201.
5001 indicates the customer code
012 indicates the article code
01 indicates the version number

Row 2: 2016-07-1301
2016-07 indicates the production date
1301 indicates the default software version of the display

7. FAQ

Q: Why can't I turn on the screen?
A: Make sure the display cable is connected to the controller.

Q: How do I deal with the error codes?
A: For maintenance, contact your local e-bike dealer. If no solution: contact WATT.

8. Warranty and Service

1. Any product defect as a direct result of quality will be replaced
2. Warranty period: 24 months from the delivery date of the display from the factory

The following circumstances are not covered by the warranty:
1. Opened display
2. Damaged connector
3. Scratched or damaged housing after delivery
4. Scratched or damaged cables
5. Failures or damage caused by force majeure or natural disasters
6. outside the warranty period