MASSIMO Urban Runner E14
Settings Manual

Operation

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

FROM THE MAIN SCREEN

4 Multi-functional Area Display
Short press to switch to view:
ODOMETER (ODO) Quick press
TRIP DISTANCE (TRIP) quick press again
TRIP TIME (TI) quick press again
VOLTAGE (VOL) quick press again

Turn on backlight and headlights
Hold (+) for 3 seconds to turn on the headlight and backlight. Hold (+) for 3 seconds again to turn off the lights.

Assist ratio gear (ASSIST) switch
Push (+) or (-) shortly to switch gears. Gear 1 is for the minimum power, gear 9 is for the highest power. Each startup will automatically restore the gear back to 1. (Note: Some setting block access to gears 6 - 9)

6Km/H assist promotion function
Hold (-) and sign will flash, the vehicle drives at the speed not more than 6Km/h. Release button, and the function is invalid.

SETTINGS SCREEN
Press and hold (+) and (-) buttons for 3 seconds to enter the first settings screen.
Short press to switch to the next setting. P01 - P17 and P99

The following are the programs/parameters and what they stand for:

P01 Screen Brightness : 1 = bright, 2 = brighter, 3 = brightest
P02 Unit of Distance : 0 = KM / 1 = MILE
P03 Voltage grades : 24v, 36v, or 48v (The higher the voltage, the faster the bike will go and the faster the battery will drain. Choose a lower voltage for a longer lasting battery.)
P04 Sleep timer : Choose 1 - 60 minutes until the screen goes off when not being used for an energy saving mode. To turn off the sleep timer, put on 0 and the display will never go off.
P05 **Petal Assist** **PAS grades** : Allow an ebike to deliver power automatically whenever you pedal without the need for throttle modulation. 3 grade modes - 3 = 2V, 5 = 3V, 9 = 4V. Press (+) Options 0 and 1 indicate how much electric assist each grade will provide from the battery while pedaling and will affect the pedaling speed accordingly. Press (-)

P06 **Wheel size** : Wheel size unit shown in inches. Must be set correctly. (Set to 22.0 for the Massimo E14 Urban Runner)

P07 **Speed measuring magnet** : Range is 1-100
This is 47 for direct drive (1200w and above) motors and 01 for geared (500w - 750W) motors

P08 **Speed limit setting** : Range 0-100 km/h, 100 means no speed limit. The speed limit for power and turning is equal.
Note: The value here is based on kilometers but when the unit setting is converted from kilometers to miles, the speed value of the display interface automatically converts to the correct mile value.

P09 **Zero start & Non-zero Start** : 0 is Zero Start, 1 is Non-zero Start
Zero start (0) will engage the motor instantly while Non-zero start (1) will give some delay when you throttle.

P10 **Driving mode** : 0 is driven by PAS. The throttle is useless at this time. Use this option if you do not want to use the throttle.
1 is driven by Throttle. PAS is useless at this time. If you do not need PAS, then use this option. 2 is driven by PAS & Throttle. The throttle is useless at Zero Start status when both throttle and PAS are active.

P11 **PAS sensitivity** : Range: 1-24. Set the sensitivity carefully, 1 is the most sensitive.

P12 **PAS start strength** : Range: 0-5. Lower value provides a little assist when you start pedaling.

P13 **PAS magnet type** : 5, 8, or 12 dots on the magnetic ring. 8 is the default but set it as 12 in case you have 12 magnet rotor.

P14 **Current-limiting of Controller** : Default is 12. Range is 1-20A. Please check the current your controller and the hub motor can handle. Set the limit accordingly.

P15 **Controller undervoltage** : Range 1 - 100 The under-voltage circuit is to protect the battery from discharging when the voltage is lower than the controller set value, at this time the PWM circuit stops the output. The over-current protection circuit limits the working of the controller, battery, motor at an over higher current.

P16 Not implemented

P17 **Unit Gear** : Set to 1 if unit has gear. Set to 0 if no gear. 0 = gear shut off and no power output

P99 Reset to default settings : Long press (+) button to reset to default settings
The controller serves to bring the power from the battery to the machine and get it running.

In the default settings, the e-bike will not go over 15mph or past 5th gear. Please change your settings accordingly and you will be able to access all 9 gears and max speed will reach up to 39mph. If you have any questions, please contact Massimo Motor at contact@massimoelectric.com and we will be happy to assist you. Thank you for your business.