



E-BIKE

Movo 1.0E

Owner's Manual

BATTERY DISMOUNTING INSTRUCTIONS

For safety reasons and to meet regulation of international freight shipping, the lithium-ion battery was NOT fully charged and placed in hibernate state.

Please **charge your battery BEFORE the very first use.**

Carefully read and follow all instructions and guidelines in this manual.



1. Insert the key into the battery keyway. Turn counterclockwise to unlock the battery.
2. With one hand holding the end of the rear rack and the other hand hold the end of the battery, pull the battery backwards away from the bicycle to dismount the battery.

BATTERY DISMOUNTING INSTRUCTIONS

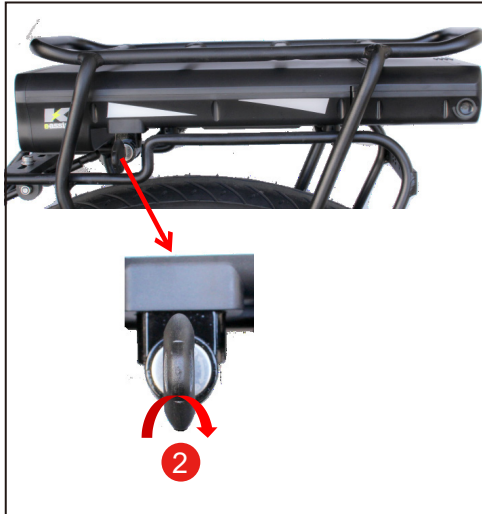


1. Make sure the key ❶ is in the unlock position.
2. With one hand holding the end of the battery and the other hand holding the end of the rear rack, slide and push the battery all the way into the battery rack.
3. Lock the battery by key. Failure to lock the battery can result in inconsistent power while in

*The KEY is only for the locking and unlocking the battery. When in “locked” position, don’t leave the key in the keyway. Take the key off and keep it with the bike to prevent losing the key. We recommend to keep the spare key with the charger.

One Switch version

3



1. Makes sure the key

② is in the locked position. The battery is secure and stable in the rack. Once locked, pull out the key for safekeeping. Keep the Spare Key with the charger is recommended.

2. Switch On or Off

The  key on the LCD.

a: Press for 1 second to turn on.

b: Press for 2 seconds to shut off.

3. Automatic shutdown system

To save power, the MOVO1.0E will automatically shut off if it stops for 10 minutes.

CHARGING THE BATTERY



1 .Make sure the battery voltage is accordance with the charger.

36V battery can only be charged by 36V (42V) charger.

48V battery can only be charged by 48V (54V) charger.

2. Open the soft cover **1** of the battery charging port.

3. Insert the charging connector **2** into the battery charging port **1** .

4.Connect the charger power plug **3** to 100V/240V AC, the charger LED indicator is GREEN Light.

5.The charger LED indicator turn to RED Light.

6. When Charger LED indicator turn GREEN, again. The charging process is completed. Pull out the charger connector with battery, store the charger for next charge.

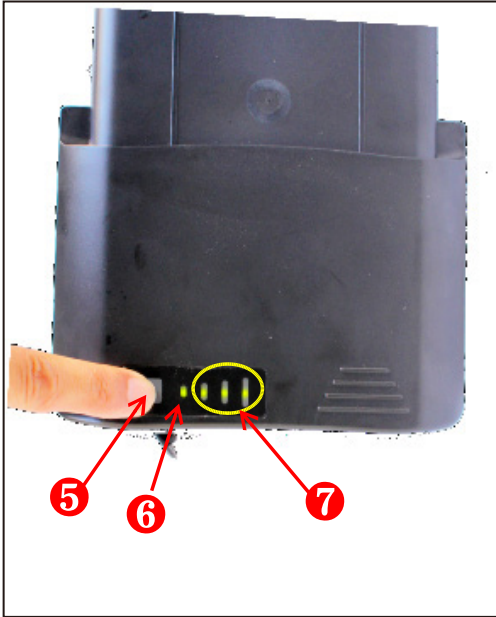
CHARGING THE BATTERY



Charger LED indicator

LED indicator ④ 『Red』 light indicates charging. 『Green』 light indicates fully charged.
If after 8 hours of charging and the LED indicator is still Red, the charging seems abnormal.
Please stop the charging and report to supplier for service.

BATTERY POWER INDICATOR



Push the soft button **5** to activate the capacity meter.

6 flashes red light, means no power or not enough power, need to be charged.

7 LED green bars indication

3 green lights = full energy capacity

2 green lights = mid energy capacity

1 green light = low energy capacity

1 steady red light = few energy left

※ We recommend to always charge the battery after every ride.

BATTERY STORAGE

- If used the bike in or after a rainy day, remove the battery and wipe it dry.
- When not using the battery for a long period of time or after charge, keep or store it without plugging into the bike.
- Check the battery energy status, and charge every three months.

CAUTIONS when charging:

- (a) It is strictly forbidden to charge the battery with uncertified charger.
- (b) Avoid direct sunlight. Charge in dry and well ventilated environment .
- (c) For best charging efficiency, charge in temperature range of 32°F to 104°F (0°C to 40°C).
- (d) Battery performance deteriorates over time whether the battery is used or not. This is known as "calendar fade". Performance also deteriorates with usage and this is known as "cycle fade".
Follow the instructions indicated here could effectively extend the battery life and performance.

E. Model vs Battery vs Charger

<i>Model</i>	<i>Battery</i>	<i>Charger</i>
Easy 24	36V	36(42)V
Envoy 200	48V	48(54)V
Movo 1.0E	48V	48(54)V
Extended 2.0	48V	48(54)V

LCD OPERATION :

On & Off

On  : Push for 1 second.

Off  : Push for 2 seconds.



LCD dashboard content description

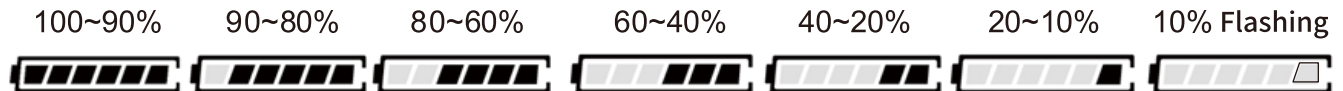
Power output and battery level indicators section


(1).POWER output indicator:

Each cell means 2A (current) of output




(2). BATTERY level indicator:



When the battery is empty, all six cells are blank and red light will flash . Motor will Stop and show ERROR code  (1) . *Please charge or change the battery... ASAP..

Power assistance level indicator section



Push  to increase power assistance level (0.1.2.3.4.5)

Push  to decrease power assistance level (5.4.3.2.1.0)



9

Speed Endizator section : MPH vs KM/H


Push  and  simultaneously for 2 seconds

to change the speed unit between Miles Per Hour (MPH)






and Kilometers Per Hour (KM/H).




Additional information section

Push  button briefly each time will cycle through the following functions :



 Cycle through the information automatically  →  →  → 

 Odometer recorded by the system since the manual reset.

Time since the system was turned on.

Distance traveled since system was turned on.

Max speed since system was turned on.

* NOTE 1: Distance and speed units will depend on the selected MPH or KM/H unit in the Speed Indicator section.

* NOTE 2: To clear all info except for odometer, push  and  together for 2 seconds.

* NOTE 3: To clear all info including odometer, push  and  together for 10 seconds.

Throttle

Push the throttle lever, the bike will go without pedaling.



Walking Mode 3.8MPH(6KM/H)

Press  On control panel button for 2 seconds to start the walking mode.

Releasing the button will immediately stop the walking mode.

Walking mode will cause the motor to run up to 3.8MPH (6KM/H).

It is designed to assist when pushing the bike up hill or need to go slowly.

When engaged, the power assistance indicator will show AUTO 6.



LCD Backlight and Front & Rear lights

On : Press and hold  On control panel for 1.5 seconds to turn on.

Off : Press and hold  On control panel for 1.5 seconds to turn off.

NOTE: Bicycle battery must be "ON" for the bicycle lights to work.



If shows up, there is an error. The indicated numeric codes are defined as follows:

Error code	Definition	Solution(s)
1	Voltage too low 48V is under 42V // 36V is under 32V	Charge battery, or replace .
2	Brake is stuck or shorted	1. Check the brake to make sure it's not stuck. 2. Unplug the brake wire to see if message goes away. If it does, the wire maybe shorted.
4	Crank sensor no signal or no phase	At power on with power assistance level (0), error code (4) may appear. The code should disappear automatically after 30 seconds, or when you start pedaling. If you start pedaling, but the code stays on within the first 30 seconds, then it indicates there is no flash signal from the crank sensor. *Sensor is to be replaced
5	Motor overload, reduce motor output	1. Shutdown and restart the system. 2. Put on max assistance level. 3. Motor requires repair.

LCD OPERATION

6	Controller temperature exceeds 158°F (70°C)	Power off and wait until the temperature decrease back to normal about 10 min..
8	Motor Hall is abnormal	<ol style="list-style-type: none">1. Is the connection between motor and controller loose or broken?2. Motor requires repair.
9	Motor overcurrent	<ol style="list-style-type: none">1. Shutdown and restart the system.2. Motor requires repair.
14	Wheel diameter Sensor abnormal	Check wheel sensor or wheel magnet
15	Voltage too high 48V system: battery is above 60V 36V system: battery is above 44V	Replace the battery.
17	Lost or abnormal communication between LCD and controller.	<ol style="list-style-type: none">1. Shutdown and restart the system.2. Is the wire between the LCD and controller loose or broken?3. Controller or LCD may require repair.



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