

#### 2.3.5.6 Notes on Transporting Battery

### **WARNING**

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- ◆ The lithium battery is regarded as a dangerous article, and it may not be allowed to transport without the prior approval of local laws.
  - ◆ If you want to transport Robstep X1 with a lithium battery by air or transport the lithium battery separately by other means, please contact Robstep or its appointed agents.
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#### 2.3.5.7 Others

### **WARNING**

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- ◆ Please strictly use the battery as described in the manual to ensure your safety and the safety of others, extend the lifespan of the battery as long as possible and improve its performance.
  - ◆ If there is any damage, leakage, or peculiar smell, please stop using the battery immediately.
  - ◆ Please do not contact any substance leaking from the battery.
  - ◆ Only professional engineer can disassemble the internal of the battery.
  - ◆ The battery contains toxic substance. It's not allowed to open or insert anything into it.
  - ◆ If Robstep X1 isn't used for a period of time, please store it after full charged and charge it every three months.
  - ◆ Do not let children and pets contact the battery.
  - ◆ Please use the charger provided by Robstep for Robstep X1 only.
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2.4 Parameters of Robstep X1

|                          | Robstep X1                | Remarks                                                                                                                                                                                                    |
|--------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Driving Speed    | 20km/h ①                  | ① The maximum driving speed can be configured by an application. If Robstep X1 is in sprint status during driving, it will run at a speed higher than 20 km/h in a short time.                             |
| Maximum Driving Distance | 25km ②                    |                                                                                                                                                                                                            |
| Maximum Uphill Angle     | 15°                       | ② The maximum driving distance is measured on flat road with the load of 70 kg. This parameter is affected by the capacity of battery, driving habit, load, environment temperature, road conditions, etc. |
| Net Weight               | 17kg ③                    |                                                                                                                                                                                                            |
| Max Load                 | 100kg                     | ③ The net weight refers to weight of the whole Robstep X1 with a 4.4 Ah lithium battery.                                                                                                                   |
| Packing Dimension        | 88*40*49 (cm)             |                                                                                                                                                                                                            |
| Product Dimension        | 123*60*76 (cm)            |                                                                                                                                                                                                            |
| Battery                  | 48V 4.4Ah Lithium Battery |                                                                                                                                                                                                            |
| Charging Requirement     | 110-240vAC 50-60hz        |                                                                                                                                                                                                            |
| Charging Time            | 3hrs                      |                                                                                                                                                                                                            |
| Motor Type               | DC Brushless              |                                                                                                                                                                                                            |
| Motor Power              | 300W                      |                                                                                                                                                                                                            |

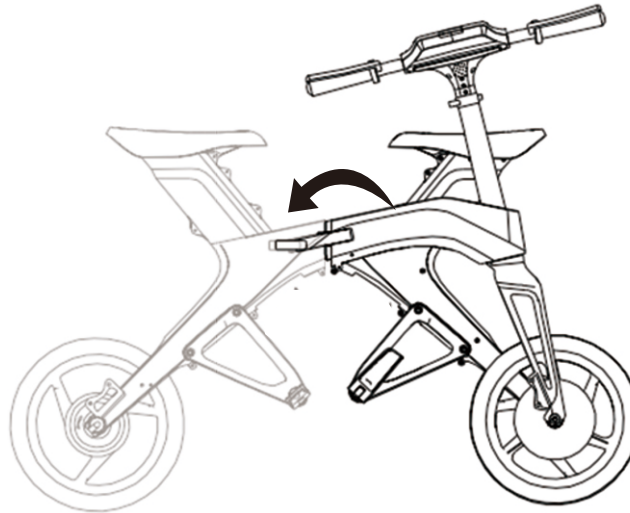
## 3. Operation of Robstep X1 & Safety Notice

### 3.1 Operation Description

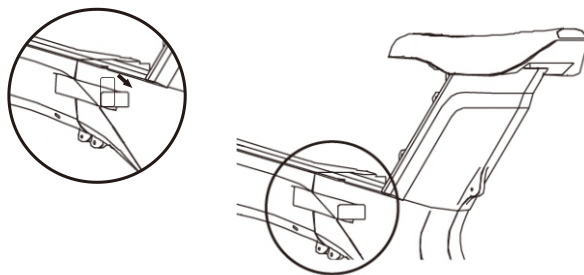
Please read this manual carefully before using.

- ◆ Please assemble Robstep X1 correctly and fully charge the battery before using.
- ◆ Before driving, user should fully get up the driving environment.
- ◆ Please do not wear sharp objects to avoid injury during driving.
- ◆ Please do not drive on wet and slippery ground.

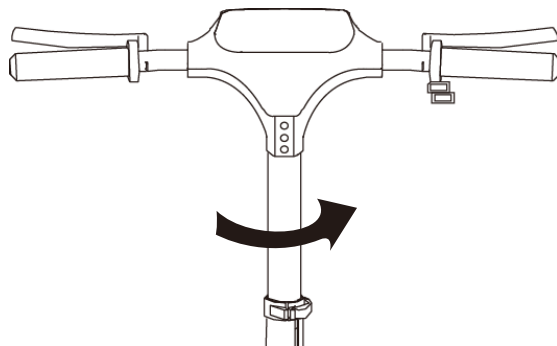
- ◆ Step 1: Take Robstep X1 out of the package and then unfold.



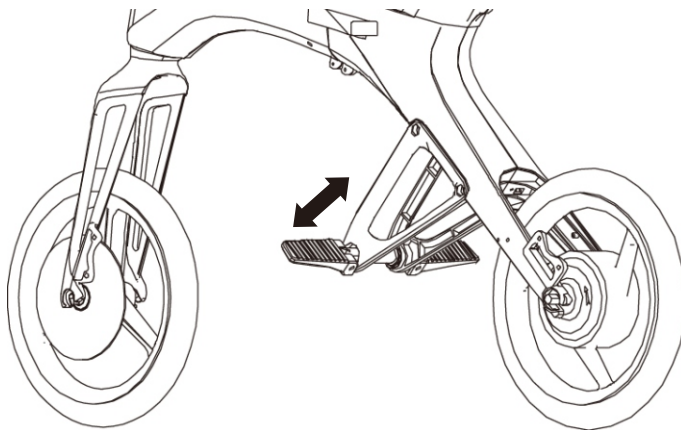
- ◆ Step 2: Buckle up the folding button to fix front and rear parts.



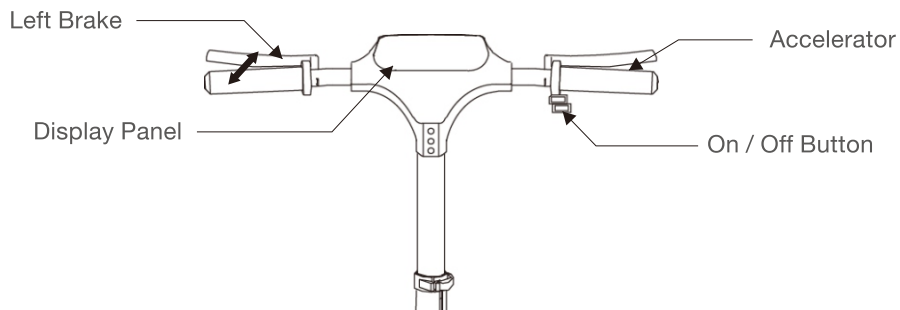
- ◆ Step 3: Unlock clamp. Rotate handlebar 90°, adjust handlebar height accordingly, and then lock clamp.



- ◆ Step 4: Unfold the pedals.



- ◆ Step 5: Press on/off button, and display panel will light up. Brake the left brake to enter into driving mode, rotate the accelerator slightly, and Robstep X1 will get started.



## **WARNING**

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- ◆ Please do not shake the handlebar violently, which may increase the probability of accidents.
  - ◆ Please do not brake suddenly, especially on smooth road.
  - ◆ User must drive according to this manual.
  - ◆ If encountering traffic jam, user has to dismount and walk as to decrease the probability of accidents.
  - ◆ Please do not drive on wet or slippery road, which may cause slip of wheels and control loss.
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## 3.2 Safety Notice

### **WARNING**

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- ◆ Please read the manual carefully for safe driving. You can learn a lot of important information through it.
  - ◆ Before using, please install every part correctly to protect Robstep X1 from damage during use.
  - ◆ Please do not use Robstep X1 to injure any persons or damage any property.
  - ◆ Please do not change or modify any parts of Robstep X1 randomly.
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#### 3.2.1 Weight Limit for User

- ◆ The minimum weight limit for user: 20 kg
- ◆ The maximum weight limit for user: 100 kg

#### 3.2.2 Maximum Driving Distance

The maximum driving distance of Robstep X1 is 25 km. However, it is affected by many factors, such as:

- ◆ Road Condition: The driving distance will increase if user drives on flat road. If user drives on hilly or bumpy road, the driving distance will decrease.
- ◆ Speed & Driving Habits: The driving distance will increase if user keeps the driving speed stable. If user starts, stops, accelerates or decelerates frequently, the driving distance will decrease.
- ◆ Weight of User.
- ◆ Temperature: If driving under recommended temperature, the driving distance will increase. Otherwise, the driving distance will decrease.

#### 3.2.3 Speed Limit

- ◆ The maximum speed is 20km/h.

### 3.2.4 Brake Description

- ◆ If braking under high-speed driving, please do not use front brake first as to avoid danger.

### 3.2.5 Using Environment

#### 3.2.5.1 Driving under High or Low Temperature Environment

- ◆ When user drives Robstep X1 under high temperature, parts such as motor will heat up obviously, which may affect the performance and lifespan of Robstep X1. When the temperature of parts rises to over 50°C, the speed limit decreases. The decrease value depends on the actual temperature. When the temperature of parts rises to over 80°C, user must stop to cool down Robstep X1 at once.
- ◆ When user drives under low temperature environment, lubrication of movable parts will be affected, and the resistance will increase. Meanwhile, the discharge speed and capacity of battery will decline obviously. Therefore, please do not use Robstep X1 violently below -5°C, which may cause injury from losing control or falling.

#### 3.2.5.2 Uphill or Downhill Driving

- ◆ The maximum uphill and downhill angle is 15°. User should pay attention to the slope.
- ◆ When user drives uphill, Robstep X1 works with heavy loads, parts in the system heat up rapidly, and the battery is under a heavy load status. The lifespan and capacity of the battery will be shortened if driving uphill for a long time, thus driving uphill for a long time is not recommended. In addition, due to the heavy load, the system will automatically decrease the maximum driving speed for safety.
- ◆ Over-speed downhill driving should be avoided entirely. When user drives downhill, the system may be under energy recovery mode depending on the slope and load, and thus continuous downhill driving is helpful to increase the driving distance. When the capacity of battery is full, continuous downhill driving may cause an overcharge of the battery and even damage to the battery. The system will automatically decrease the maximum driving speed as to reduce the possibility of overcharge.

#### 3.2.5.3 Warning on Raining & Snowing Conditions

- ◆ Riding at snow and heavy rain weather should be avoided.
- ◆ Do not ride in deep water.

## 3.3 Other Safety Notices

- ◆ It's forbidden to use battery or accessories of other brands. If any accident incurred due to misuse, it is not within warranty scope.
- ◆ Modification of Robstep X1 voids warranty. Any loss resulting from modification, Robstep will not be responsible. If there is any glitch, please contact Robstep or its appointed agents.
- ◆ Destroying the labels on the battery or on the body of Robstep X1 voids warranty.

## 4. Maintenance of Robstep X1

User needs to conduct routine maintenance for Robstep X1. This chapter mainly introduces some maintenance tips.

### **WARNING**

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- ◆ Before conducting below operation, ensure the power supply and the charging cable are disconnected. When power is on or the battery is under charging, the following operation is forbidden.
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### 4.1 Maintenance

- ◆ Inspect regularly on screws of front and rear tires to see if they are tightened.
- ◆ Check the outer tires tread to see if there is any abrasion and crack. If the tires are worn, please contact Robstep or its appointed agents.
- ◆ Inspect regularly on screws of Robstep X1 if they are tightened. If they are loose, please tighten up.
- ◆ Before using, please check to confirm the folding button is buckled up.
- ◆ Check regularly to see if there is any broken parts. For any replacement, please contact Robstep or its appointed agents.

## **WARNING**

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- ◆ For safety, if the battery reaches to 600 cycles, please return for inspection.
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### 4.2 Cleaning

- ◆ Please use neutral detergent on Robstep X1, wipe with a cloth, and then clean again with a dry cloth.

## **WARNING**

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- ◆ Do not spray water or other liquid on Robstep X1 as to protect internal electrical components and circuits from being damaged.
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### 4.3 Handling

Lift and put down Robstep X1 with proper skills:

- ◆ Make sure Robstep X1 is not connected with the charger and is in power off status.
- ◆ Lift with two hands at the middle of Robstep X1 for handling. Please do not use the handlebar as the main force.

### 4.3 Storage

- ◆ Please store Robstep X1 indoors with dry and suitable temperature. If it isn't used for a period of time, please do not connect it with power supply.

## WARNING

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- ◆ User should not open internal circuit or motor.
  - ◆ Modification voids warranty.
  - ◆ User should store Robstep X1 with a fully charged battery, if not using for a long period of time. And the battery should be charged every three months.
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## 5. Failure Treatment

- ◆ Serial Number: Every Robstep X1 has a unique serial number, which is used for quality tracking. The serial number should be in safe keeping.
- ◆ Method to acquire the serial number: Acquire from the packing case or the SN registration card.
- ◆ If there is any glitches, please contact Robstep or its appointed agents for maintenance.

FCC Compliance Statement: This device complies with Part 15 of the FCC rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

## WARNING

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- ◆ User should operate in accordance with this manual. Robstep shall not be liable for any legal consequences resulting from user's improper operation.
  - ◆ For more information and support, please visit the official website [www.robstep.com](http://www.robstep.com).
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[www.robstep.com](http://www.robstep.com)