

# **City Tour**

## **User Manual**



## **Safety Instructions**

**For adults use only!**

**Please abide by your local traffic regulations!**

**Please wear helmet, knee and elbow guards for safety purposes.**

**Please read the relevant driving guidelines in this manual!**

It is hard for us to list all associated dangers when driving and maintaining City Tour , therefore, please be careful and pay attention to the safety of yourself and others when riding.

**The user manual contains important safety information --- Please read carefully.**

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## **Chapter I Introduction of City Tour**

The working principle of the City Tour is based on the basic principle called "dynamic stability" which is the automatic balance ability of the vehicle itself. After judging body posture position with a built-in precision solid gyroscope, the vehicle's electronic brain works out proper instructions through a sophisticated and high-speed central microprocessor, the 84v 8.8AH lithium(w5) and 36v 15AH lithium and 36v 42Ah lead acid battery drives the motor to balance the vehicle.

As a new transporter, City Tour is difficult to classify in the traditional way, some people think that City Tour should be a kind of double-wheeled Unicycle, while other people think it should be classed as a power stand-up, with its uniaxial double design which is different from the traditional biaxial double, for official road regulations, this transporter is called Electric Personal Assistive Mobility Device (EPAMD)

The vehicle is equipped with dual wheels. Its width is as narrow as a normal adult shoulder's width. It is 56 kg and battery-propelled. It is not necessary to have a brake or throttle during driving. When the drivers lean their body forward, the City Tour will run forward, when the body is upright, it will stop. It uses the dynamic balance principle, just like the body changes the center of gravity to keep balance. This City Tour uses wheels to replace the function of the feet, reproducing the high precision balance action of a human with lower cost. The energy comes from two rechargeable BTM batteries which are free from maintenance. If sufficient power is supplied to the battery, the full charge capacity will last continuous for 8 hours driving, the driving range depends on the way you drive and ground conditions, driving on grass and slopes will consume more driving power.

Chapter II Parts Explanation



### **1.Handle Bar/Turning Pipe**

- (1)Used to control and make the City Tour turn left or right, turn around, rotate 360 degrees. It also has support function and can play a subsidiary role in keeping body balance.
- (2) The height is adjustable. The driver can adjust it according to his or her own height to make the handle bar comfortable.
- (3) Lock the steering rod after adjustment, and then turn the handle bar to confirm that it has been locked.
- (4) All the adjustment above should be finished before driving.
- (5) The turning pipe can be taken apart easily for carrying or storage.

### **2. Power Switch**

- (1) The power switch is used to turn on and off the power. When the power switch is on, the City Tour will be initialized.
- (2) It is dangerous to stand on Scooter without turning on the power.

### **3. Pedal Switch (SAFE switch)**

- (1)The pedal switch can be up or down. It has a built-in safety switch to check whether someone is on .
- (2) The pedal switch is safety insurance. If the driver leaves the City Tour while driving, the pedal switch will reset and the will stop after 3 seconds.

### **4. Screen on Pedal**

When you open the machine, the display will show power, speed, and voltage

### **5. Instructions of Sound Alarm**

- (1)The beeps repeatedly with one sound or two sounds after power on. This means the leaning angle is too big (the pedal is not vertical). Make the pedal placed upright and horizontal, then power on the .
- (2)The beeps repeated with five sounds after power on. This means the is locked or the pedal switch is not detached.
- (3)The will make 3 seconds of balancing delay after the driver gets off. Accompanied

with beep 9 sound, the vehicle will lose balance and stop working.

(4)The will make long alarm when it reaches its max speed. At this time, DO NOT keep continue lean forward or force to accelerate. You need adjust your body and slow down. Or it will be dangerous.

## Chapter III Getting Started

### 1. The Right Starting Operation

Hold the turning pipe/handle bar with one hand, keeping the pedal upright, unlock the (lock mode: please press ), this means starting is a success (refer to picture 2,3,4). Then hold the handle bar firmly with two hands (refer to picture 5).

Note: Make sure the pedal is placed upright. Because City Tour will consider the current pedal's position as its original position setting. This is a very important step. If the original position is not set correctly, it will not balance well.



Picture 2



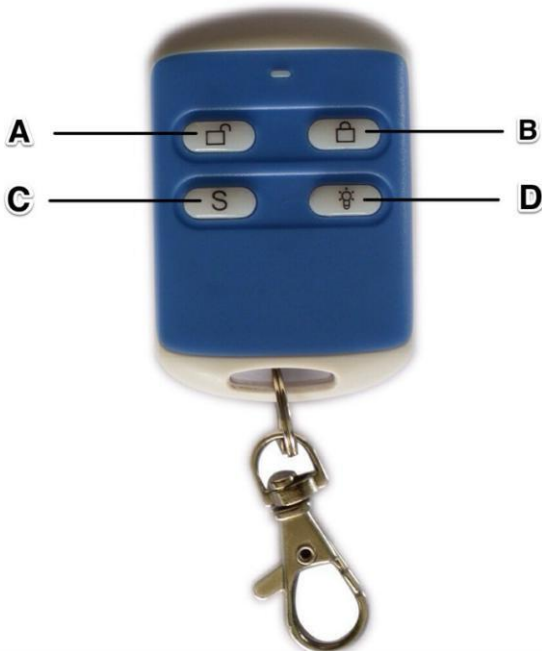
Picture 3



**Picture 4**

**Picture 5**

## **Chapter IV Instruction of Four Modes Switching Remote Controller**



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### **1. Function of Remote Control**

- (1) Button A: Unlocking.
- (2) Button C: Switching two speed modes

#### **1. Default or Normal Mode**

The max speed is 18-20km/h and the turning is flexible and sensitive.

#### **2. Beginner Mode**

The min speed 8km/h and the turning is slow.

- (3) Button D: Turning on/off light

(4)Button B:locking

(5)Function of recording pedal horizontal level. Powering on off road ,, setting a suitable position, pressing Button C and Button D at the same time, after two beep sounds, off road will remember it as default position.

## **Chapter V Driving**

Driving the City Tour is totally different from anything you may have driven before. The City Tour does not have a brake, accelerator or gear system. Please read the user manual or get instructions from an experienced person before your first ride.

The City Tour is very addictive once you enjoy the fun of driving, you will not help yourself driving it whenever you get the chance, following these instructions will be beneficial for your enjoyment.

### **1. Standing on City Tour**

After switching on, hold the handlebar with left hand. meanwhile step on pedal with right foot (refer to picture 9); or hold the handlebar with right hand, meanwhile step on pedal with left foot (after you press down the pedal switch, City Tour will start computer balance, and you will feel very secure. The order is the left hand-right foot, left foot-right hand or right hand-left foot, right foot-left hand. When you are on , stand upright without any action, just relax and keep your balance, Scooter will stop in original place (refer to picture 10).



**Picture 9**



**Picture 10**

### **2. Driving Straight Forward**



Lean your body forward slowly using the center of gravity, the City Tour will move forward (refer to picture 11). The driving speed is controlled by the leaning angle of your body the more you lean the faster you will go, the less the slower. For stable driving, we suggest leaning forward slowly. It is dangerous to lean forward suddenly; this is just like sudden acceleration when driving a car.



**Picture 11**

### **3. Braking, Driving Backward**

Driving backward is not recommended for the driver's safety, because it is hard for you to see behind when driving. Turning radius of City Tour is zero, which you can easily achieve in a continuous spin around 360 degrees on the spot. When you drive forward in a straight line and you want to slow down or stop, you can lean backward or squat down (the center of gravity backward). Lean slowly or smoothly backward is helpful for slowing down and stopping safely (refer to picture 12).



**Picture 12**

**Tip:** Driving forward in a straight line you just simply push the handle forward, then backward to slow down or stop.

#### **4. Turning in Original Place, Turn Around and Rotate 360 Degrees**

It is easy to turn the City Tour when driving. Keep the pipe/handle bar left-forward or right-forward to the end, at the same time correspond your body left-forward or right-forward. (Refer to picture 13 and 14). Thus you can easily achieve various turns. When the City Tour faces the right position, you only need return the pipe to the original position and stand straight City Tour will stop.



**Picture 13**

**Picture 14**

### **5. Turning in Driving**

City Tour 's turning range is calculated automatically according to the driving speed. The speed is faster, the turn range will be less to ensure safety of the driver. To turn left, the turning pipe should be swung smoothly to the left at the same time as your body leans left. The angle of City Tour 's turning is decided by the swinging angle of the turning pipe and the leaning of your body.

**Tip:** The actual turning is finished by the above combination of actions, driving the City Tour is like a combination of riding horses and skiing, or the movement is like Michael Jackson's dancing. City Tour also is called a thinking car. Which means the driver can drive City Tour according his thoughts.

### **6. Driving in Bad Weather**

**The City Tour is waterproof and you can drive on rainy days.**

## **Chapter VI Charging**

When charger is connected the Red light will glow continuously

The charger has two indicators---the red light means on charge, Green light means fully charged. The input voltage of charger is 80v-240v, output voltage is 36v and 72V, AC electric current is 1.6 A, The charger takes 5-10 hours to fully charge. When fully charged the green light will be continuously on. The charging electric current will then decrease output. The charger will become warm when charging, so please keep in suitable place.

**Please keep power switch of City Tour off when charging, otherwise, the City Tour will cause power consumption, which is bad for charging.**

## **Chapter VII Maintenance**

All other items that are not mentioned below should be done by a professional person or technician.

### **1. The Maintenance of Battery**

City Tour use BTM free maintenance battery. . Keep the charge time to no more than 15 hours. If you are not using City Tour for long periods, keep it charged, excessive discharge and re- charge is bad for the battery's life and can even lead to having to scrap the battery. (Suggestion: please keep it charged every month even you don't drive it)

### **2. When not Drive City Tour**

Please turn off the power switch then lock the switch, in case of accidental starting.

### **3. Breaker**

Under normal circumstances, the current exceeds 50A, it will automatically power off , then reboot itself ,

#### **4. Fastening Nut of Tire**

Pay attention to the big nut on the wheel. Check regularly to see if it is loose. If so, tighten the nuts with a 21mm spanner to 108 torque.

#### **5. Maintenance of Tire**

The normal air pressure is the basic conditions to guarantee your safe driving .The standard tire pressure is 130kpa(130-150kpa) =1.3bar =(1.3kg/kg,that is what we recommend. It is necessary to check the tire pressure regularly. Under inflation and excessive inflation will cause unequal tyre wear, which influences comfort and mileage and shorten the life of tyre, under-inflated tyres also influence power saving. Also check for cuts and splits which could cause the tyre to deflate at a rapid rate, causing injury to the rider.

#### **6. Appearance Cleaning**

It is necessary to keep the pedal and body of City Tour clean. Please clean the gravel, soil and mud off after you're driving. Don't use any corrosive chemical such as petrol to clean City Tour , you can clean City Tour by using soft cloth and brush, don't wash City Tour with water

### **Chapter VIII Notice**

#### **1.Keep Pedal of City Tour Horizontal**

The City Tour will consider the current pedal's position as its original position setting when power on, so the pedal must not be horizontal after the power is switched on; it is hard for the driver to stand on City Tour if the pedal is not vertical. The position of pedal may have change when gyroscope has not warmed up. If the position of pedal is in the wrong position when started, adjust by repeated power on-off.

#### **2.Balance Output of City Tour**

Computer balance will start immediately after you press the pedal switch of the City Tour . If you keep pressing the pedal switch, the computer balance will be continuous on. When at a low speed, even if the pedal switch is restored (the pedal switch is pulled up) the balance will keep working to let driver leave and push the City Tour conveniently. Please pay attention; City Tour will have a tendency to move forward even without load, the City Tour will keep computer balance. Therefore do not leave City Tour without a driver on the road, City Tour will run automatically by itself until it falls down. It is normal.

### **3.City Tour Standing**

When you want to make City Tour stand after driving, you can turn off power and put parking stand down.

### **4. Accident Water**

Turn the power off immediately if City Tour falls into water accidentally. Do not drive it again if you are not sure about the situation. It might enlarge the problem. You can pull it home without power easily since it weights only 56kg. Please then contact us; we will give you the guide.

### **5. Lock Switch**

Locking City Tour to prevent running by accident (refer to picture 19). Power off then lock, when you power on again ,red light will flash 4 times, it means City Tour is locked.

Do not lock the while the power is on. This will lead to short circuit of pedal switch. City Tour will think that driver has stood on it and then start automatic balance. It is dangerous to drive City Tour in this case, we do not suggest drive under this situation.