



User Manual OSCAR



Electric



Personal



Mobility

User Manual

Model No: HB-311

WELCOME

Welcome, and congratulations on your new Hikerboy e-scooter.

The user manual of the electric scooter will enable you to operate and maintain the electric scooter properly. By reading this manual, you will be able to better understand the working principle and performance of the scooter and make full use of it.

SAFETY INSTRUCTIONS

1. Reading this manual and following the instructions will help you reduce your risks.
2. If the rider is inexperienced or does not use this product according to this manual. Neither the manufacturer nor the seller is responsible for incidental damage or direct / indirect damage caused by the use of this product.
3. This electric scooter must be driven in public areas according to transport security rules and regulations.
4. Choose an open and barrier-free space away from children, pedestrians, pets, vehicles, or other obstacles for your first ride.
5. Following the tips and warnings in this manual cannot eliminate all the risks. Please remember that you may risk injury from loss of control, collisions and falls when using the scooter. Do not pass through places with obstacles and protrusions.
6. In order to reduce the risk of injury, you must read and follow all the "attention" and "warning" tips in this manual.
7. The company will not bear the direct responsibility and joint liability for all adverse events of conflict of interest caused by the behaviour violating this manual, including all financial and personal losses, accidents, legal disputes, etc.

Riding instructions

1. Please respect the pedestrians and obey local traffic laws and regulations when riding. Remind pedestrians and slow down when approaching. Avoid startling pedestrians, especially the elderly, the disabled, children, and pregnant women.
2. Please do not accelerate or decelerate suddenly. When riding, please always hold the handlebars with both hands and stand on the pedal with both feet. Do not ride with one hand.
3. Do not throw or drop the scooter, and do not put the scooter in an open fire or under high temperature.
4. When riding, you should ensure that it's visible between you and the others; It is necessary to observe and avoid roads that are not easy to ride (including but not limited to wet and slippery ground, loose sand gravel ground and ice surface).
5. It is recommended to wear protective glasses when riding. Stunts are forbidden during riding.
6. In order to avoid distractions when riding a scooter, please don't wear headphones, earplugs, answer and make calls, take photos, take videos or do any activities unrelated to riding so that you can be fully aware of the external environment when riding.
7. This product is for one person only. It is prohibited to carry passengers.

Riding environment requirements

1. For whatever reason, please do not ride the scooter under the conditions of snow, rain, wet, muddy and ice. When riding in rainy and snowy days, the scooter may be flooded, resulting in risk of function damage, fire and even explosion caused by wet battery. Damages and losses caused by water are not covered by the warranty.
2. Please do not ride under the following conditions, including but not limited to: bad weather, low visibility, dawn, dusk, dense fog, smoke, night, darkness or extreme fatigue. Each of the above conditions will increase the risk of accidents.
3. Do not ride the scooter over obstacles (sand, stones or roadblocks). Doing so may cause loss of balance or grip, resulting in falls. When you encounter steep slopes and rough roads, please pay attention to your own safety and don't risk riding through the section or other terrain you haven't encountered before.
4. It is forbidden to ride on the highway, swimming pools, slippery ponding and other areas with water, uneven ground and materials and areas such as loose ground which may affect normal riding or threaten riding safety.
5. Use the scooter only in open space after being comfortable with its operating system.

Rider requirements

This product is suitable for users aged 16-60. Riders under the age of 18 years old should ride under adult supervision. Riders should wear helmets, knee pads, elbow pads and other safety protective equipment. Please use a qualified bicycle or scooter helmet and tie the bandage at a suitable position on your chin.

People who are not suitable for riding this scooter include:

- People affected by alcohol or drugs.
- People who are unable to engage in strenuous physical activities due to illness.
- People who has problems with balance or with motor skills that would interfere with their ability to maintain balance.
- People whose weight exceeds the specified limit (see "basic parameters").
- Children under the age of 16.
- Pregnant women.

It is forbidden to wear high heels, slippers and open toed shoes.

Pre ride inspection

1. Please read this product manual carefully before riding.
2. Before riding the scooter every time, please carefully check to ensure that there is no sign of looseness or damage to any part including wheels, brakes, screws, etc., and ensure the scooter is in ready state. If the scooter makes abnormal sound, please stop using it immediately and contact your dealer or the customer service for professional guidance or maintenance services.
3. When the battery is low or empty, the scooter does not have enough power to maintain your normal riding. Please make sure that the battery is charged enough to avoid danger before riding.

STRUCTURAL DIAGRAM



Each scooter comes with a unique serial number.

These numbers provides information on the authenticity of the scooters and production dates.

To find your electric scooter serial number:

The number is on the backside of the board, for example as below:

Serial number: 03092310100561000



SERIAL NUMBER

SPECIFICATION

	Item	Parameter
Product	Model	HB-311
	Fold (length × width × height)	1200 × 190 × 400 mm
	Unfold (length × width × height)	1200 × 530 × 1150 mm
	Net weight	31 kg
Rider	Max. load	120 kg
	User age	18 years old and +
	User height	160 - 200 cm
Machine	Max. speed	25 km/h
	Typical range ^[1]	45 km
	Max. gradeability	45 %
	Work & storage temperature	-10 °C – 40 °C
Battery	Type	18650 Lithium
	Nominal voltage	48 V
	Battery input	54.6 V
	Capacity	15 Ah
Motor	Type	Brushless DC motor
	Rated power	800 W for each motor
	Peak output power	1000 W for each motor
	Nominal voltage	48 V
Charger	Nominal power	109.2 W
	Input voltage	100 - 240 VAC
	Output voltage	54.6 V
	Rated current	2 A
	Charging time	7 H
Others	Tires	8" front and rear vacuum tire
	Framework materials	Aluminium alloy 6061
	Dashboard	LED
	Acceleration	Throttle
	Brake	Front and rear disc brake
	Color	Silver grey
	Suspension	Front C type suspension and rear suspension
Protection level	IPX4	

[1] Typical range: The range is measured when the product is in single-drive mode, fully charged, 75 kg load, no wind, ambient temperature 25 °C, constant speed 15 km/h on the flat road surface.

*The actual range will be affected by load-bearing, temperature, speed per hour, road surface and other factors.

DISPLAY INSTRUCTION

Power Switch

Press and hold the power button for 3 seconds to turn on scooter.

The scooter turns off automatically if not used for 90 seconds.

Speed Control

While stationary, and with the power on, press and release the M button to cycle through the three different speed levels 1 to 3. Use the throttle to control the speed within each speed level.

Hold down the M button to turn on the headlights and taillights. The taillights will flash automatically when braking.

Power Indication

The number of bars indicates the remaining power of the lithium battery.

Note: Recharge when there is only one bar because emptying the scooter of power (zero bars) is damaging to the battery over time.

LED Screen

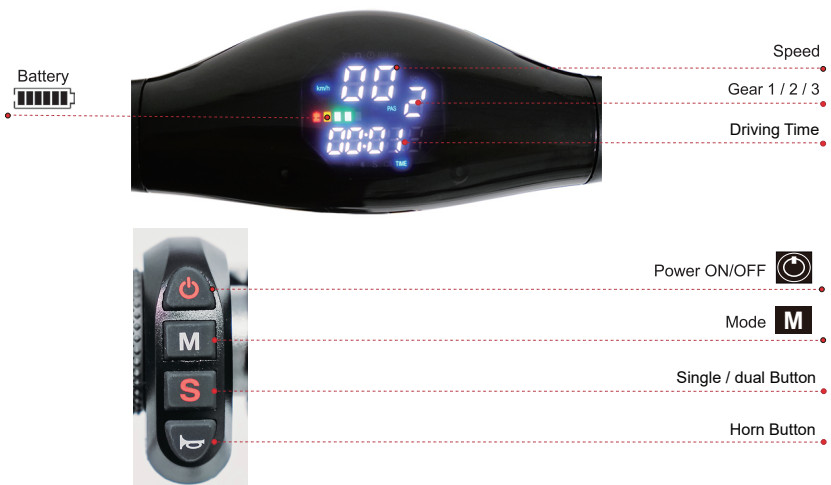
While stationary, and with the power on, press and release the POWER button to cycle through the following data:

ODO: Accumulated Mileage



TRIP: Current Mileage,

V: Current Voltage Level

To reset the TRIP mileage, while TRIP mileage is displayed, hold down M button for 3 seconds.



Parameter Settings

Press   together for 2 seconds to enter the instrument parameter setting interface.

First of all, we can see P00

and then press  by turns, we can find P01, P02, P03, P04, P05, P06, P07, P08, P09




P00, P03, P05, P07, P09

The P00(wheel diameter), P03(speed signal selection), P05(Non-zero start and zero start selection), P07(soft start and hard start selection) setting has been programmed by the controller, and these settings along with P09(EBS brake strength adjustment) on the display are not workable, so please ignore these settings.(If you want zero start, please contact your local authorized dealer)

P01: Under-voltage setting


The standard parameter of P01 should be 43 for this electric scooter. So please don't change this.

P02: Number of pole pairs setting



At P02, press  for 3 seconds, we can see the number is flashing, and then we can press  to increase the number, and press  to reduce the number.


The default number is 15, when we increase or reduce this number, the speed on the display will be changed. (Please note this speed changed on the display is NOT scooter's real speed).

P04: KPH/MPH selection setting


At P04, pressing  for 3 seconds, we can see the number 0 or 1 is flashing.

0 is KPH, and 1 is MPH



We can press  to change the KM to Mile, and press  to change the Mile to KM.

Press   together to save the setting.

P06: Cruise and Non-cruise selection settings



At P06, pressing  for 3 seconds, we can see the number 0 or 1 is flashin.

0 is Non-cruise, and 1 is Cruise

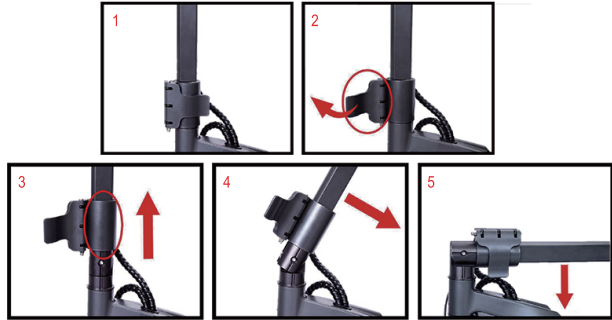
We can press  to change from 0 to 1, and press  to change from 1 to 0

P08: Speed limit adjustment in percentage

This P08 setting can adjust the scooter's real top speed.

At P08, pressing  for 3 seconds, we can see the number 100% is flashing. When the number is in 100%, means the scooter can reach the 100% top speed. Press  to reduce the percentage number.

FOLD AND UNFOLD



Stem and deck can be fixed with the lock



CHARGING AND BATTERY

Your model HB-311 has an external charger.

Connect the charging cable to its charging socket under the footboard, on the right side at the rear. Then connect the charger's electric cable to an electrical outlet.

Charging Light Red - Battery is charging

Charging Light Green - Charging is completed



MAXIMIZE YOUR BATTERY'S PERFORMANCE:

Charge the battery after each ride and avoid draining the battery completely. Avoid leaving the battery discharged for an extended period of time. In order to optimize the performance of the battery, it should be recharged once a month.



BATTERY SAFETY REGULATIONS:

Do not operate the scooter while charging!

Charge the battery only using Hikerboy approved charger.

The use, storage or charging of the HB-311 battery outside specified limits may result in the annulment of the warranty, battery damage, and an ineffective battery charge.

Place the scooter in a dry and ventilated space when charging. Do not cover the charger during charging. Make sure that there is no flammable or explosive material near the battery.

Do not connect the charger if the charge port or the cable is wet. Do not charge or use your battery if it is damaged or see trace of water. Do not charge your electric scooter with other brands of chargers. The charger is not suitable for other types of batteries.

Please do not attempt to remove or disassemble the battery, otherwise there is a fire risk and the battery can be damaged.

Batteries contain toxic heavy metals, and therefore require special attention for recycling. Lithium batteries cannot be thrown in a conventional trash can, they must be left at a collection point provided for this purpose due to local regulations.

DO NOT CUT, OPEN, CRUSH OR PUNCTURE BATTERIES!

SAFETY DRIVING ATTENTION

Get to know your HB-311 before driving it.

Test your control over it. Make your turns slowly and cautiously, and give yourself stopping distance.

To gain control over your scooter, practice your first ride on your HB-311 in an open space with no obstacles to disturb you.

The HB-311 requires a short adjustment and break-in period for all moving parts to adjust themselves into their correct position.

Before each ride always:

1. Check your brakes function.
2. Check the tires for signs of wear.

Spin them to make sure that they are not yet in need of replacing, make sure that the wheels are freely rotating clear of the brakes.

3. Perform a visual inspection :

That all screws and nuts are tight and in place.

Note if anything looks amiss, or is showing signs of wear.

If you are unsure, bring your HB-311 to Hikerboy authorized distributor.

Riding technique:

Before riding, position your foot as close as possible to the front section of the scooter, and your other foot on the ground. Make sure that your driving route is clear.

To start riding, boost yourself forwards (as on non-motorized scooters) with your foot that is on the ground. Place it on the scooter immediately afterwards and press the thumb lever downwards, tilting your body forwards, so you won't fall backwards during acceleration.



As you accelerate, lean forwards.

As you brake, tilt your weight backwards!

Avoid putting body weight on the handle bars whilst accelerating and decelerating!

Keep one foot behind the other, (it's more comfortable to place one foot forward and the other one turned backwards at 70-90°, like on skate / surfboard). It will help you gain more stability.

Turns - The turns on HB-301 are done as on skis/surf/snowboard. The handle-bar should be in parallel to the body. Before turning look at the approaching direction and make sure turning is safe.

Braking - Tilt your weight backwards so that the brake action will come through the feet and not through the handlebar and steering system. It is best to learn how to adjust the centre of gravity while stopping, otherwise there is a dual concern: forward tipping over and/or wear and breaking of the handlebar and steering system.



Riding, like most sports, involves risks of injury and damage.

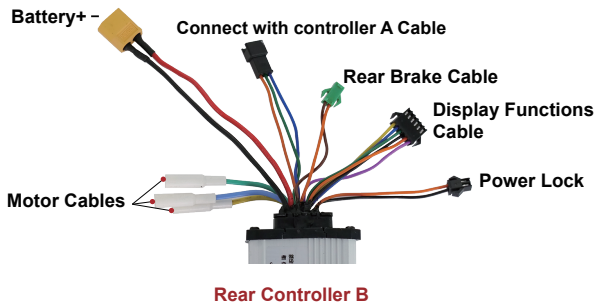
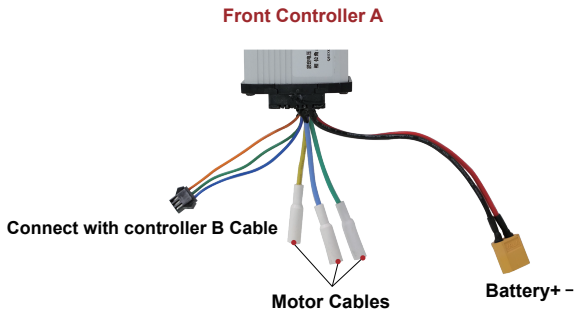
By choosing to ride HB-301 scooter the responsibility and all inherent risk is on you. It is crucial that you know, understand and act according to safety rules

MAINTENANCE

Inflating tires

Please keep the tires inflated to 50 PSI to avoid punctures and damage to the tires.

Note: PSI level can usually be found on scooter tires.



Adjusting brakes

Small adjustments can be made at the barrel adjuster on the brake lever, but all major adjustments should be made at the opposite end of the cable at the brake caliper.

With the barrel adjuster on the brake lever threaded almost all the way in, adjustments can then be made to the front or rear caliper. If your brakes are too loose, you will need to increase tension on the brake cable.

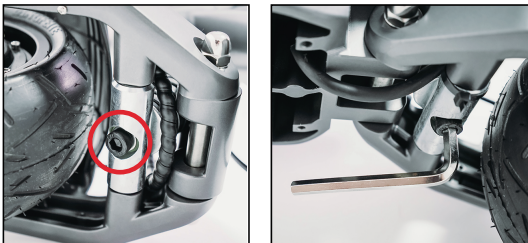
To do this, using a 5mm hex tool, loosen the screw holding down the cable near the caliper. While holding the cable, rotate the brake arm in the direction of the scooter until it can't go any further, making sure to keep tension on the brake cable. Once the arm stops rotating, rotate in the opposite direction a small amount and tighten down the screw.

If your brakes are too tight, check that nothing is interfering with the brake cable between the handlebars and the caliper. Follow the directions listed above, only remove tension on the brake cable instead of introducing it.

Hydraulic brake systems requires less maintenance, but do need to be bled from time to time in order to stay at peak performance levels. Bleeding the system involves removing any built up air in the hoses and topping off the hydraulic fluid and requires a hydraulic brake bleeding kit.

If you re not comfortable doing this yourself, reach out to your dealer for further directions.

How to adjust the shock absorber



The front and rear shock absorber can be adjusted to be soft or hard.

- 1: Find the screw nut at the bottom of shock absorber.
- 2: Use a 8mm allen key to loose and tighten the screw nut.
- 3: When loose the screw nut, the shock absorber will become soft.
- 4: When tighten the screw nut, the shock absorber will become hard.

WARRANTY CARD

Product	Name	Model	Number Serie
User	Name	Telephone	Zip Code
Address			
Distributor	Name	Telephone	Purchase Date
Address			
History	Fault Date	Fault	Maintenance

Record	Submission Date	Maintenance Situation	Maintenance Results	Signature

OTHER INFORMATION

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