

S43-2014 Four Wheels Electric Scooter

Instruction Manual



Weifeng Industrial Co., Ltd.

Introduction

Dear users:

Thank you for the purchase of the VITAFOM Electric Scooter!

Before you using the electric scooter, be sure to read the manual. If you can not fully understand the content, or need some help, please contact VITAFOM Scooter manufacturer, call the Weifeng Industrial Co., Ltd.

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This manual recorded the part of scooter operation, equipment description, and the event handling of the incident.

This use of manual signs, such as the following explanation: The illustrations in the mark "★" show that prohibitory moves and acts.

Warnings Attention and suggestions, please read it in detail.

★ This manual includes: inspection and maintenance record card, as well as the guarantee, please place them in your scooter.

★ If you transfer the scooter to other people, please give the user manual together.

★ With the design changes, all of information and

pictures in the manual are subject to final product, it will without notice, please the users to understand and support

Finally, we believe that the VITAFOM electric scooter give you is not only the maintenance of permanent service, more importantly, more convenient and exciting to your life.

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1. Safety requirements

■ Before driving

- Moving in the sidewalk; if driving in areas without sidewalks, please along the outside.
- Please take care the vehicles when driving in the lane or traveling to a half, suddenly discover that there is no sidewalk in front and have to drive to the lane.
- Please do not across the road.
- Avoid driving in the busy traffic flow place.
- Do not drive this scooter When you drink too much or too tired.
- Do not drive at night.
- Please comply with the pedestrian traffic signs.

■ Ground circumstances

- Vitaform Electric Scooter Under normal driving conditions (such as dry beton or asphalt plane floor), with the best stability.
- Driving safely in the park and the grass.
- Avoid driving on the loose gravel, earth which covered by soil or sand.
- If you can not judge the situation of road traffic, do not drive on the road.
- Vitaform electric scooter can across a certain degree of obstruction; the speed should be reduced at this time, passing through the obstacles slowly.

(Figure 1)

Load	Height
<100KG	80MM



H (Figure 1)

★Warning: forbid climbing in excess of the angle and other requirements referred in the manual.

■ Safety precautions

- Before fully read and understand user's manual, please do not drive.
- Vitaform electric Scooter only allow 1 person to drive, do not carry passenger traffic.
- When the electric scooter is not in use, please switch off the power.
- to ensure that the seat is fixed.
- Driving on the rugged rock or soft ground, please slow down.
- When turning the corner, please slow down.
- When driving on slopes, please do not park on the slope.
- Avoid driving in steep ramp, do not drive for more than 10 degrees ramp up to 300 meters long, climbing more than limit, power will automatically cut off, you need to restart the safe button on left of the battery box, in order to re-run.

- When moving or have just reached the bottom of the slope, convex ground, unprotected edge (such as road, veranda, the staircase, etc.) Please be careful driving.
- Forbid to change the initial setting and refit of electric scooter.
- Driving in the busy streets, markets, or shopping centre, please drive carefully, prohibit driving to the unsafe zone, and the road which statutory prohibition of prevailing on, please consult the local government agency about electric scooter on the road traffic regulations.
- Electric Scooter is prohibited as a chair placed in the mobile vehicle.
- Battery electrode connector and its associated annexes have lead or lead components, after moving the battery, please clean your hands.

★ **WARNING:** Have to protect the battery when in frozen temperature, prohibit to charge the frozen battery, for fear to damage the battery or personal injury caused.

★ **WARNING:** Please do not drive on frozen, smooth road or saline road surface, or may result in accidents and personal injury.

■ **Notice in using**

- Repair, refit

If in need of repair, refit, please contact with Weifeng company.

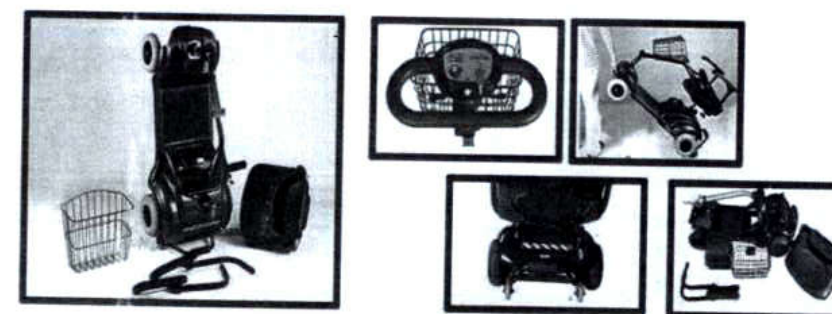
- OEM Parts

When replace parts, please selected Weifeng original parts.

- environment protection

When scooters and batteries are end of life, do not arbitrarily throw away, please contact the Weifeng agents or company.

2、Character



S43-2014

S43-2014 electric scooter specification

S43 electric scooter specification	
Item	Type
	S43-2014
Size(L×W×H)	990×530×890 (mm)
Front wheel	8"×2"×2 PCS PU solid tyre
Back wheel	190 × 70× 2 PCS PU solid tyre
seat	Adjustable Height
speed	0-8km(Adjustable)
ranges	about25km
Duration	About3h
Groove Crossing Ability	50mm
Drive train	Rear wheel driving
Brake system	Electro-magnetic Brake
weight	46kg
Weight capacity	100kg
Ground Clearance	100mm
Ground Clearance From Seat	520mm-560mm
Min.Turning Radius	1000mm
Max.Slope Grade Ability	10°±1°
Controller	45AMP
motor	270WMP
charger	DC24V/1.8A
battery	12V 20AH*2pcs
colors	Red blue argent yellow

3. Introduction for various parts



- ① Control Panel ② Leather Seat ③ armrest
 ④ Basket ⑤ Folding device ⑥ Battery Pack
 ⑦ Front Humper ⑧ Rear Wheel ⑨ Front Wheel

• Detailed parts name



- ① power consumption table ② speed regulator
③ horn button ④ power switch ⑤ back and forward joystick

4. Instructions

• Power switch

"ON" power-on, you can travel.
"OFF" power-off, not moving.



★ **WARNING:** If the electric scooter power off when you are walking, electromagnetic brake will work and scooter will suddenly stop.

• Power consumption table

Turn on the power, battery capacity indicator will show the size, green shows power is strong, yellow shows power



is weaker, Red shows Lower power need to charge it in time.

• Speed regulator

Adjust the speed regulator can set a maximum speed, it can be set 0Km / h ~ 8Km / h arbitrarily. Turn to the extreme left is the slowest speed setting. Turn to the right to set the fastest speed.



• Forward, back, brake joystick

Push the Joystick by your right Hand the scooter will forward. Push the Joystick by your left hand the scooter will back. Scooter will sound alarm when you fall back. fully release under the speed of adjustment, it will automatically stop at the "center" Position, electromagnetic brake will automatically stop the vehicle.



• Horn button

Pressing horn button will ring. In order to prevent accidents and injuries, please use a timely manner



■ Back body

A battery box, reset button, Power supply connection, the controller and The brake-lever, motors, gear box components are in the back of body.



• Battery box

Mightiness inside the box

• Reset button

Reset button Fixed the left



Side of the battery box.
When encountered on steep
Slopes and overloading of
vehicles, reposition equipment
will work, and protect motor and
electric controller system damaged,
a short break and and push the reset
button, the Complex power supply
system will work again.

●Controller

Controller is Fixed at the top Of
the motor, receiving the control
operation and sending to motors,
brake systems to make the scooter
normally working.

●Brake-lever

The clutch is the switch for "power walking" and
"manual working"

"Power walking": the pulled up the joystick rely on
the motor-driven to move.

"manual working": to pulled down the joystick, At
this point you can push to the mobile.

● Transmission

Motor / transmission is one parts of electrical
machine, it will convert to rear-wheel drive.



★ **WARNING:** Absolutely prohibit to move brake-lever
down hill into the "manual walking" state, therefore
the implementation of walking without any braking
effect.

■ Driving method

●starts to walk

- 1.To confirm the correct installation of seats,
whether there is loose.
- 2.First power switch to "ON".
- 3.To confirm remaining battery power with Power table,
you need to charge when power less.
- 4.To regulate the regulator to the speed what you
required.
5. To confirm that forward and backward joystick to
switch the forward and backward state.
6. To Confirm that the surrounding environment and
traffic safety.
7. Slowly push the joystick forward and backward, and
adjust the speed slowly.

★ Note:

- 1.Switching the power to "OFF" when you get up and
down the scooter
- 2.Do not stick hands at the same time to speed up the
joystick.
- 3.Do not move power switch to "OFF", or will lead to
an emergency brake and fall.
- 4.Please slow down when drive in house
- 5.People and traffic in large areas, please pay
attention to traffic at a crowd place.
6. When reversing, please note that the crowd and
obstacles from the back.

●Stop

1. Return the joystick to the original place "center"
brake will be automatically released, the car also
will stop.

★ **Note:** The braking distance will be based on driving conditions, so when you want to stop, please do braking action in advance.

2. To switch the power to [OFF]

5. Battery and Charging method

• Battery

The scooter adopt maintenance-free and water-free sealed lead-acid battery, don't need to check-up the margin of battery liquid and water supply. It must be charged when it be used first time.

★ **Note:** Please don't open the sealed part of the battery.

• Charger

The scooter adopt AC100-240V/DC24/1.8Ah high-efficiency charger.

• Charge method

1. Turn off the scooter's power.
2. Pull the BNC connector plug out of the battery box.
3. Open the dust-protect cover, insert the BNC connector plug to the receptacle of battery box.
4. Insert charger's power plug to the receptacle.
5. When it start to be charged, the red indicator will



light up, the charging time is different according to battery's condition and temperature.

6. When the indicator turn to be green, it means the battery is fully charged, then you have to pull out the battery's input line.

7. Then pull the BNC connector plug out of the battery box.

★**Note :** in order to charge the battery safely, please abide the following guidance.

★Please use specify charger for the scooter and must charge it fully before use it. If charge it by other kinds of charger, maybe the battery would not be charged fully and the battery would be damaged.

★Please don't dismantle and refit the charger.

★Please charge the battery in the place where out of sunshine and well-ventilated.

6. Security adjust

• Height adjustment of the chair

1. Take out the seat and plug it into the connection pipe.
2. Adjust the height position of the connection pipe, make the hole of the connection pipe suit for the pipe's hole which under the seat.
3. Insert spherical bolt.



• **Width adjustment of the armrest**

The width of armrest can be adjusted inward and outward.

1. Release the handle of seat lock.
2. Move the armrest inward or outward to suitable position.
3. Lock the handle.
4. Uplift the armrest in order to get on/down the scooter conveniently.

7. Standing display

• **Electric Scooter Stand up**

1. Turn off the power
2. Loosen the knob on the armrest, fold the armrest forward by 90°.



(Picture 1)

3. Pull out the bolt, loosen the knob under the chair, make the chair down to the lowest, plug the bolt into the hole.



(Picture 2)

4. Loosen the stick which locked the handle.
5. Fold the handle down to the chair.
6. Fold the backrest down to the top of the handle.



(picture 3)



(Picture 6)

(Picture 4)



(picture 5)

8. The basic repair and maintenance

■ **Daily Check-up**

Before driving, please check-up the scooter by following items, if there's any wrong, please stop using the scooter before check it out by yourself or by the dealer.

Check-out items	Check-out contents
Handle	Whether it's untight, whether it can turn left and right successfully?
Speed switch	Whether it can switch normally?
Speed controller	Whether can run when we push the controller, and whether it can stop when we stop pushing the

	controller
Clutch	Whether can be separated normally?
Power table	Whether the index is work? Whether the power of battery is enough?
Horn	Whether the trump can phonate?

★ **Note:** when you feel there is something wrong, please contact the dealer to check-out your scooter and do the maintenance.

● **Battery cleanliness**

● The battery would be easy to effuse if there's water, battery liquid or dust on the surface of it. So please do purgation as following:

1. Turn off the power.
2. Draw the main power line out of battery box and take out the battery.
3. Open the up-cover of battery box, take it out and wipe out dust by clean dishcloth.
4. If there's white powder on the port, please use warm water to wipe it, after that please disassembly the battery box by unti-process that you disassemble it.

★ **Note :** charge the battery per month if you didn't use the scooter in a long time.

● **Fuse**

Turn on the power, if the power table don't work, please check-out the fuse in the battery box.

● **maintenance**

1. Check-out all wire insulation and connectors in a certain time.
2. Make sure the subassembly of electronic control is not be affected with damp, or you have to stop using it until it's dry.
3. Please use soft dishcloth to wipe the surface of scooter, forbid to wash the scooter by water directly.

9. Troubleshooting of controller

As involving the program for identifying and shooting troubles, the controller LED will flash immediately, if there is any identification of trouble or failure, 10 seconds later, then the LED will display the failure as 1-digit code and flash continually before the remedy of troubles. E.g.: Trouble code, "1,9"-low battery voltage-display as:

(one ☆ represents flash once)

☆ ☆	☆ ☆	☆ ☆	☆
☆			
(1, 1)	(1, 1)	(1, 1)	(1, 1)

Users can try to settle problems according to the

following ways. If problems exist, please consult our agents or us.

No. of flashes	fault	Impact on scooter	notes
1	Battery needs recharging	Will drive	Battery charge is running low. Recharge the batteries as soon as possible
2	Battery voltage too low	Drive inhibited	Battery charge is empty. Recharge the batteries. If the scooter is left off a few minutes, battery charge may recover sufficiently to allow driving for a short period of time.
3	Battery voltage too high	Drive inhibited	Battery charge is too high. If a charge is plugged in, unplug it or turn the charge turn switch to run. Scooters powered by RHINO will charge the battery in this manner may cause this fault. Turn the scooter

			power off and then back on again
4	Current limit time-out	Drive inhibited	The scooter has drawn too much current for too long. Possibly because the motor has been over-worked, jammed or stalled. Turn the scooter power off, leave for a few minutes, and then turn the power back on again, the controller has detected a shorted motor. Check the loom for shorts and check the motor. Contact your service agent.
5	Brake fault	Drive inhibited	Check that the park brake release lever is in the engaged position. The park brake coil or wiring is faulty. Check the park brake and wiring for open or short circuits.

			Contact your service agent.
6	Out of neutral at power up	Drive inhibited	Throttle is not in neutral position when turning key switch on. Return throttle to neutral, turn power off, and back on again. Throttle may need to be re-calibrated(see section 4.2.3) Check throttle wiring.
7	Speed pot error	Drive inhibited	The throttle or its wiring is faulty. Check for open or short circuits. Throttle may not be correctly set up. Contact your service agent.
8	Motor volts error	Drive inhibited	The motor or its wiring is faulty. Check for open or short circuit. Contact your service agent.
9	Other internal errors	Drive inhibited	Contact your service agent.

VITAFOM Electric Scooter

Maintenance card

Customer:	ID number:
Address:	Phone number:
Product name:	Scooter code:
Purchase date:	
Warranty period: 12 months after purchase date (6 months for battery only)	
Producer: Weifeng Industry Co., LTD	
Agent name:	
Tel:	

• Warranty range:

Under usual using circumstance, if there is some quality problems of production or assemble, the agent take charge to fix it up and change the accessories for you.

• Following conditions are out of warranty range

1. Didn't used and maintained the scooter under the direction and the scooter had been broken.
2. Didn't adopt the accessories from regular producer and make the accessories be broken.
3. Accessories broke by accident. 4. The accessories that easy to be depleted is out of the warranty range, such as tyre and axletree.
4. Consumables are not included in the maintenance, as tyre and axletree.
5. Forbid to change scooter setting privately.
6. Typhoon, flood and earthquake etc. visitation of Providence.