



E-Scooter

OWNER'S MANUAL

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To the customer:

Welcome to the electric scooter driver community. To enjoy a safer and happier driving experience, you should be familiar with all the contents in this operating instruction manual before you drive. Your safety does not only depend on your own alertness and operating skills, but also with your familiarity with the mechanical performance of the electric motorcycle. Each time before you drive, you should check the vehicle carefully. Furthermore, periodic maintenance is essential to the basic health and good condition of the scooter. It is recommended that periodic maintenance or repair is only carried out by a special authorised dealer or a ZRide Service Centre representative to ensure optimum operation performance.



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FOREWORD

This product is designed for transportation and is environmentally friendly. Below are the characteristics and advantages of the electric scooter:

- ++ * High-efficient brushless DC motor.
- * Digital controller with indicator and protection from over voltage and under voltage.
- * Brake system with power cut-off ability to ensure safe riding.
- * A high performance battery offering a stronger current and longer distance for driving.
- * Front and rear suspension system providing a smooth and comfortable riding.

Warning

1. Legal driving age is according to local laws and ordinances that govern and/or restrict the use of the electric bike. The laws and ordinances vary greatly between different countries. It is your responsibility to know and abide by your local restrictions.
2. Do not remove or dismantle the parts in private. Please contact a service centre or dealer for replacement or repair parts.
3. Do not lend the vehicle to anyone who is not familiar to the riding process.
4. Avoid any sudden stops or braking to prevent accidents.
5. Never ride with one hand.
6. Do not ride under the influence of drugs or alcohol.

RIDING SAFELY

General Rules

- Always wear an approved helmet when riding your scooter, and follow the helmet manufacturer's instructions for fit, use and care of your helmet.
- When riding, obey the same road traffic rules as all other road vehicles, including giving way to pedestrians, and stopping at red lights, stop signs and pedestrian crossings.
- Ride predictably and in a straight line. Never ride against traffic. Ride defensively. To other road users, you may be hard to see. Use correct signal lights to indicate turning or stopping.
- Concentrate on the path ahead. Avoid potholes, gravel, wet road markings, oil, curbs, speed bumps, drain grates and other obstacles.
- Expect the unexpected such as opening car doors or cars backing out of concealed driveways. Be extra careful at intersections and when preparing to pass other vehicles.
- Familiarise yourself with all the scooter's features. Practice signal lights, braking and the use of horns.
- Don't carry packages or passengers that will interfere with your visibility or control of the scooter. Don't use items that may restrict your hearing.
- Maintain a comfortable stopping distance from all other riders, vehicles and objects. Safe braking distance and forces are subject to the prevailing weather conditions.
- Please ride slow when road conditions are bad.
- Please do not exceed the loading capacity. This will affect the driving distance.

Wet Weather

- In wet weather you need to take extra care.
- Brake earlier, you will take a longer distance to stop.
- Decrease your riding speed, avoid sudden braking, and take corners with additional caution.
- Be more visible on the road.
- Wear light reflective clothing and use safety lights.
- Potholes and slippery surfaces such as line markings and train tracks become more hazardous when wet.

Night Riding

- Ensure that the front lights are on as per manufacturer set up.
- Wear light reflective and light coloured clothing.
- Ride at night only if necessary.
- Slow down and use familiar roads with street lighting, if possible.

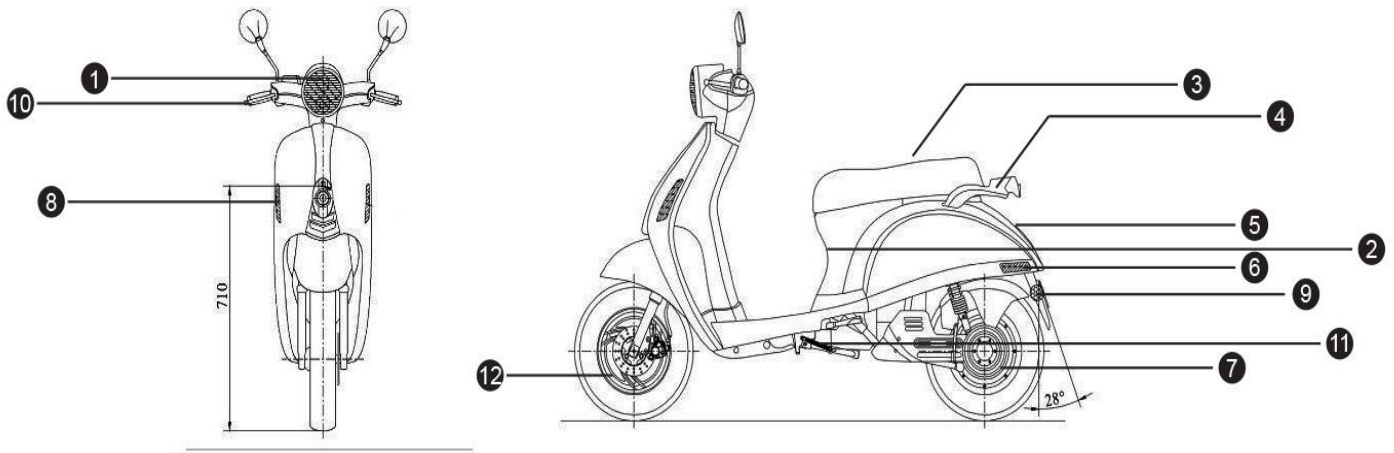


CAUTION: Modification is illegal. A modified vehicle will affect its structure or performance, which will result in shortening the life of the vehicle. Modified vehicles will not be covered by the warranty. It is necessary to buy original spare parts from authorised dealers. No guarantee can be provided either for quality or durability when buying non-original spare parts from the market.



WARNING: Once you have completed the initial charge you are ready to ride. You must be aware of all local laws and ordinances that govern and/or restrict the use of the electric bike. **The laws and ordinances vary greatly in different countries.** It is your responsibility to know and abide by your local restrictions.

LIST OF PARTS



1. Front light

2. Plug

3. Battery

4. Rear carrier

5. Rear light

6. Rear indicator light

7. Brushless DC motor

8. Front indicator light

9. Rear Reflector (LR)

10. Brake levers (LR)

11. Double kickstand

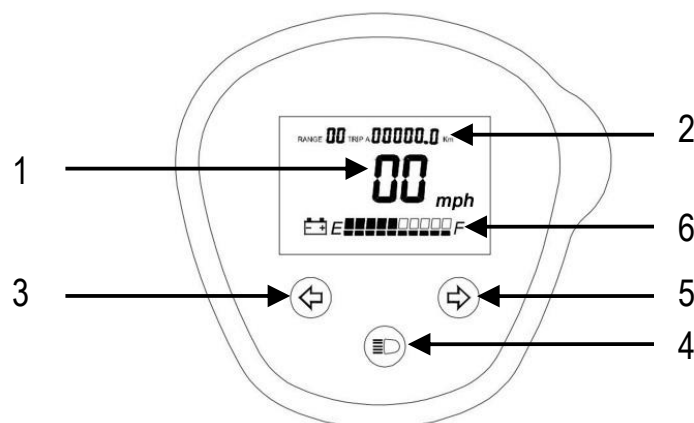
12. Front disk brake

NOTES: 1. The above spare parts are only for reference. Any changes of spare parts or technology upgrades may be introduced without prior notice.

2. The picture is for reference only. In case of discrepancy please refer to the actual product itself.

INSTRUMENT PANEL

Instrument and indicator



(1) Speedometer

(2) Odometer

(3) Left turning signal lamp

(4) High beam indicator

(5) Right turning signal lamp

(6) Battery digit meter

Lighting switch

Lighting switch has three positions:



At this position, all lights are off.



At this position, position lamp, tail lamp and instrument lamp are illuminated.



At this position, headlamp is illuminated.

Horn switch



Pressing down, horn will give off sound.

Dimmer switch of headlamp

Press down  for low-beam. Press down  for high-beam.

Turn signal lamp switch

Switch on " " for turning left. Switch on " " for turning right.



1. **Battery plug:** This cable plug is under the seat. You must connect this plug to the battery before riding the vehicle.
2. **Power Switch:**
 - a) ON()Turning switch to this position will turn on the power supply of the vehicle and the vehicle can be driven. At this time, the key cannot be pulled out.
 - b) OFF()Turning switch to this position will turn off the power supply of the vehicle. At this time, the key can be pulled out.
 - c) Turning the key to (),  position allows the key to be pulled out. At this time, steering operation is forbidden. The vehicle and lamps will all be in the off condition.
3. **Seat lock:** The seat will be open when pressing the "SEAT OPEN" position. Press the seat down and it will be locked automatically.



Warning: Never push the scooter when the handle bar is locked; it will fall down whilst losing balance.



Attention: Please always lock the scooter and take the key after parking.

CHARGING THE BATTERIES

Before riding the electric scooter for the first time, you must charge the batteries for 6-9 hours using the supplied charger.

IMPORTANT CHARGING INSTRUCTION:

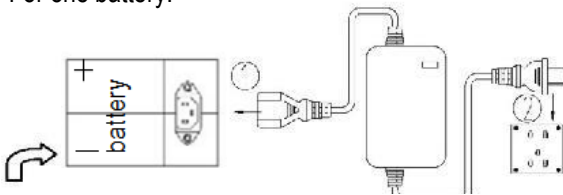
The Power Switch Lock must be in the off position when the electric scooter is being charged.

The scooter uses a 60V lithium battery. You should charge your electric scooter after each ride. You must re-charge your electric scooter if it has not been used for 30 days or more. Recharging time is between 6-9 hours.

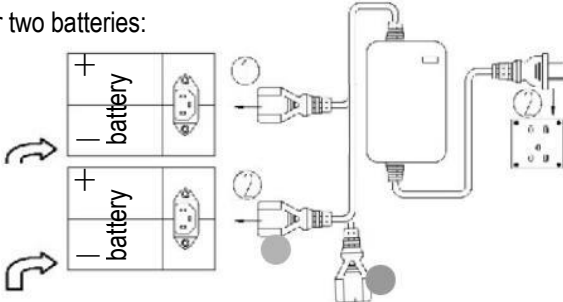
- A. Locating the Charging Socket:** Turn the ignition lock to “SEAT OPEN” position, then press and open the seat buck. Remove the battery from inside and disconnect the plug from the battery case carefully.
- B. Charging the Scooter.** Turn the scooter off by pointing the key to . Insert the output plug in the charging socket of the scooter and connect the input plug 220V/110V to the wall socket (please refer to the illustration on page 7). The battery is fully charged when the charger indicator shows green. We suggest allowing an extra 1-2 hours charging time to achieve better battery condition. When the battery is fully charged, remove the charger input plug followed by the output plug.

Battery case

For one battery:



For two batteries:



1. Do not place the battery near a heat source or fire. Do not expose the charger to water.
2. Do not cover the charger with anything whilst charging.
3. Please use the authorised charger to charge the battery otherwise the warranty will become void.
4. Please follow the charging instructions above.
5. When there are two battery boxes, the battery packs must be charged and discharged at the same time.
6. Before connecting the battery, raise it approximately 10cm to connect easily.

Kickstand

1. Main kickstand: Use for long time parking.
2. Side kickstand: Use for temporally parking.



WARNING: The side kickstand functions as a circuit cut-off system to prevent scooter moving when turning the accelerator accidentally. The scooter will only start when the single kick stand has been folded up.

Footboard

Do not put any heavy things on the footboard. This will affect the balance of the scooter and cause potential danger.

Seat

1. Seat lock: Turn and press the key to "SEAT OPEN" position and the seat can be lifted.
2. Press the seat down and it will be locked automatically.

Front & Rear Brake-Hub Brake

Before the right and left brake levers start functioning it will be in the free path condition. The free path condition can be approved (10-20mm) by adjusting the adjustable nut clockwise or anticlockwise.



WARNING: The brake is adjusted according to its sensitivity. Press both front and rear brake to give a better braking process. Avoid braking continuously for a long period of time because that may overheat the brakes and reduce its braking efficiency. When pressing the brake levers, please release the accelerator.

RIDING RECOMMENDATIONS

Check the spare parts below before riding the scooter:

1. Check the tyre condition for any worn-out areas or breakage.
2. Check the transmission system condition.
3. Check the tyre pressure.
4. Check the bugle and rear reflector condition.
5. Check all the standard spare parts such as nuts and screws and ensure they are well tightened.
6. Check if the brake cable lanyard functions in smooth condition.
7. Charge the battery when the scooter is not driven regularly. To prolong the battery life, charging should be carried out 15 days during each summer and 30 days during each winter.
8. Check all the turning parts frequently such as the handle bar. Add lubricant when needed.
9. Check the light.

RIDING INSTRUCTIONS

1. Fold up the kickstand and hold onto the handle bars with both hands. Assume a well-balanced position on the scooter and push off with your foot.
2. Turn power on (by turning the key from "  "to"  "). Your right hand will control the accelerator. Twist the accelerator slowly to avoid a sudden rush of speed forward. The speed of the bike will increase as you twist the accelerator further. Release the accelerator and apply the brakes to stop your scooter. You will control the speed of the scooter by using both the accelerator and the brakes. Squeezing the break handle cuts the power to the accelerator.

TROUBLE SHOOTING GUIDE

Problem	Cause	Solution
The power indicator illuminates but scooter still does not work	- The accelerator is not operating properly. - The single kick stand is not folded up properly.	- Replace the accelerator. Call Customer Service to order a new accelerator. - Fold up the single kick stand.
The power indicator does not work when power is on.	- The fuse or fuse socket has blown. - The battery box is not place properly.	- Replace the special fuse or fuse socket. - Adjust the battery box in the proper way.
Distance per charge is less than normal	- Not enough air pressure in the tyres. - Not enough charging or the battery is defective. - Stopping and starting up frequently. - Riding uphill or against strong wind.	- Inflate the tyres. - Recharge battery or replace battery. - Call Customer Service to order a new battery. - Ride on even roads with regular speed and in good weather conditions.
Electric scooter is losing speed	- Low battery charge. - Battery is defective.	- Recharge your battery for 6-9 hours. - Replace battery. Call Customer Service to order a new battery pack.
Accelerator not working	The brake cables are not in position and are causing circuit cut off.	Adjust and reposition the brake cables.

NOTE: If other problems occur, do not attempt to disassemble the scooter on your own, please contact your authorised dealer.

MAINTAINANCE AND ADJUSTMENT

Battery:

To prolong battery life, store the scooter indoors or in a garage to prevent low temperatures which affect the battery performance.

1. Do not dismantle or disperse the battery cells.
2. Keep the battery away from children.
3. Do not connect cathode and anode of the charger during charging and discharge process. It is prohibited to use any conductor to connect both cathode and anode. This will cause a short circuit.
4. Do not dip the battery in water.
5. Do not place the battery in a temperature over 60°C or next to a high-temperature heat source.
6. Do not knock on, throw or trample the battery.
7. Do not use edge tools or nails to lacerate or cut through the battery.
8. If a leak occurs and electrolyte comes in contact with the eyes, please do not rub. Wash immediately with plenty of water.
9. If the battery produces smell, heat or smoke, or if it changes colour, becomes distorted or shown abnormality, stop using the battery and dispense with it immediately.

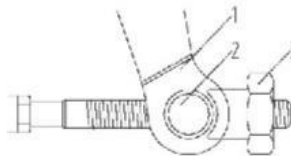
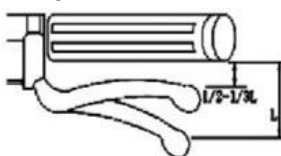
Cleaning:

1. Never use high water pressure to wash the scooter. Soaked electrical parts and wiring will affect the performance.
2. Never apply lubricant to the drum brake and the tyre.
3. Only use lubricant to clean the metal parts of the scooter.
4. Use standard detergent to clean surface of the painted plastic parts and wipe up remainder with cloth.

Brake Inspection:

Front and Rear Hub Brake Main Checking Points:

1. Press the lever (1). While holding the lever adjust the nut (3), so that you can achieve a comfortable distance for your grip, normally a 1/3-1/2 of maximum gap. The best distance for brake shoes and hub tray is 1.5mm.
2. Replace brake shoes when the usage surface has reached 1/2.



Charger Inspection:

1. Use only the authorised charger. Different countries may use different chargers. Do not mix-up 220V and 110V charger.
2. The power switch lock must be in position when the electric bike is being charged.
3. Do not turn the battery box upside down during charging.
4. Check that the welding work in the charger socket is still in good condition.

Motor and Controller Maintenance:

1. During rainy season, do not let the water go over the motor centre line. This is to protect the motor from burning or other malfunction.
2. Do not press both the brake lever and accelerator at the same time when starting the motor to prevent damaging other parts.
3. Slow down the scooter when the road condition is not good. High vibrations may interrupt the electrical parts connection.

Regular Maintenance:

check ● adjust ◆ replace ▲ lubricate ■

Parts to be tested

	Daily	60days	180days
1. Accelerator, turning parts		●■	●■
2. Pedal assembly		●■	●■
3. Tyre and full set of bulbs	●		●■
4. Chain		●	◆
5. Brake shoes		●	●
6. Rims			
7. Frontfork	●	●	●
8. Brake		●◆	●◆
9. Horn, charger and battery	●		

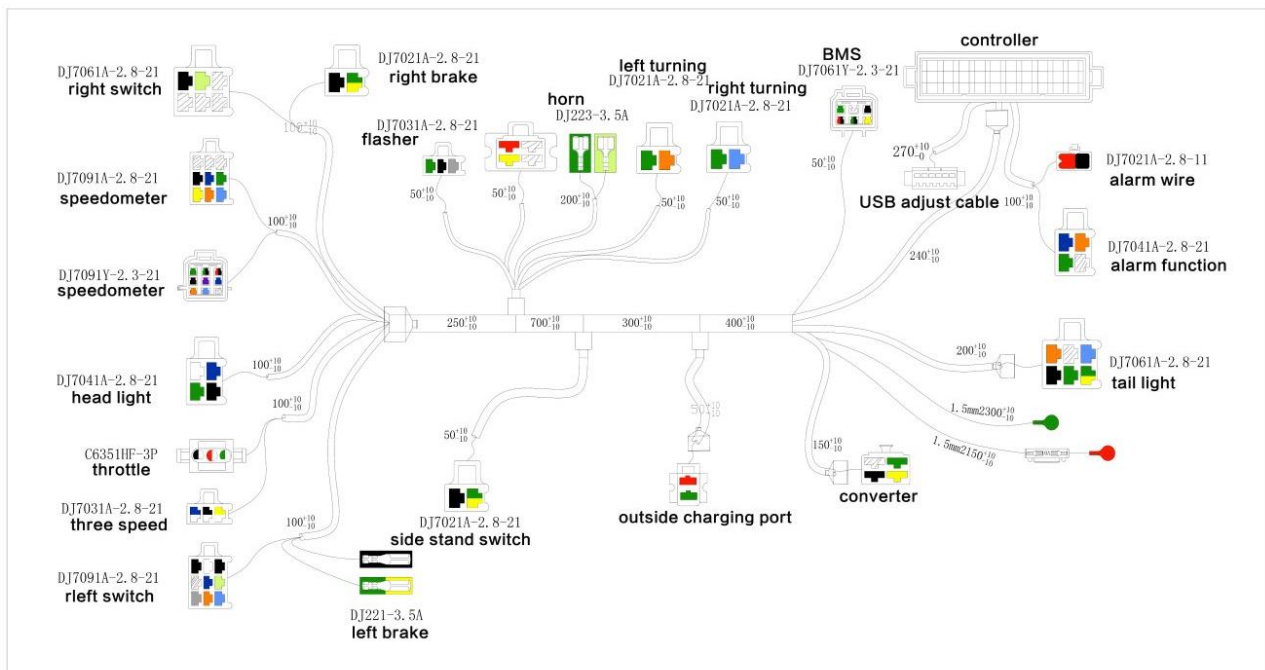


CAUTION: Never try to take apart or repair the scooter by yourself.

List of items inside the E-motor:

1. Kit
2. Owner Manual
3. Charger
4. Battery

WIRING DIAGRAM



TECHNICAL SPECIFICATIONS

Model	Vax / e-city	I 9 / I rock	Romex	Legend/ New UF4		
L*W*H	1780x670x1095mm	1935x695x1110mm	1890x875x1090mm	1890x875x1090mm		
Standard Load	75kg	75kg	75kg	75kg		
Battery	Lithium battery	Lithium battery	Lithium battery	Lithium battery		
Rated Speed	30mph	30mph	30mph	45mph		
Inflatable pressure	250-300kpa	250-300kpa	250-300kpa	250-300kpa		
Wheel base	1310mm	1385mm	1330mm	1350mm		
Braking	Fr.:Disc/Rr.: Drum	Fr.:Disc/Rr.: Disc	Fr.:Disc/Rr.: Disc	Fr.:Disc/Rr.: Disc		
Battery type	48V30Ah Lithium	60V20Ah Lithium 60V40Ah Lithium	60V20Ah Lithium 60V40Ah Lithium	72V28Ah Lithium 72V56Ah Lithium		
Rating export distance force	140mm	140mm	150mm	150mm		
Charger input	48V	60V	60V	72V		
Range	40-50 miles	40-50miles/ 60-70miles	25-30miles/ 40-45miles	20-25miles/ 30-40miles		
Maximum speed	30mph	30mph	30mph	45mph		
Net weight	95kg	98/103kg	102/107kg	105/110kg		
Tyre(front/rear)	3.50-10	120/70-12	120/70-12	120/70-12		
Motor type	2000W	3000W	3000W	3000W		
Lack pressure protect	42V	52.5V	52.5V	52.5V		
Charging time	6-8h	6-8h	6-8h	6-8h		

*Under different models, the parameters of your electric moto technology may be related to the above list is different.

Do you have any questions? Please contact your local dealer.



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