



**MOBILITY SCOOTER
MANUAL USER
MODEL:CL-Z3**



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Introduction

Dear Customer:

Welcome to join in the electric mobility scooter driver. To enjoy more safe and happy driving experience, you should be familiar with all contents in this operation instruction before driving. Your safety is not only related with your own alert & operating skill, but also related with if you know well about mechanical performance of this product. Each time, before driving, you should check it carefully. Besides, periodic maintenance is also very important. Please kindly note that only special repair station can know how to deal with the problem, and how to ensure optimum operation performance.

WARNING!!

1. Driving age should be according to local laws and ordinances that govern and/or restrict the use of electric mobility scooter. The laws and ordinances vary greatly from municipality to municipality, it is your responsibility to know and abide by your local restrictions.
2. Do not remove or dismantle the parts in private. Please contact with service center or dealer for replacement or repair parts.
3. Do not lend the vehicle to anyone that is not familiar with the riding process.
4. Please concentrate solely on road traffic and your scooter. Do not use smartphones or other electronic devices while driving.
5. Do not touch the positive and negative electronic metal terminals of the battery with wet fingers. There is a risk of electric shock.
6. Avoid sudden acceleration that could cause it to roll over backwards. Especially on a hill.
7. Do not clean your scooter with a pressure washer or steam jet.
8. Avoid sudden stop or braking to prevent accident.

RIDING SAFETY

NOTES: You must be aware of all local laws and ordinances that govern and/or restrict the use of electric scooter, and please obey local traffic laws and pay attention the safety on the road, check the scooter before driving.

1. Check the tyre pressure regularly (front and rear 225kpa) before driving.
2. Check the functionality of the brakes and lamps.
3. Adjust your seat for easy operation.
4. Adjust the rear-view mirrors to your best visibility.
5. Check whether the battery is full before driving and start with low speed.
6. If you want to turn, reduce your speed and avoid sudden braking.
7. Lock the scooter when you park.
8. Dry the scooter if it gets wet, so that the water can not damage the electronics.
9. Do not drive through water and snow. Prevent the internal parts of the trolley from getting wet.

CAUTION: Modification is illegal. A modified vehicle will affect its structure or performance, which will shorten the vehicle's life. Modified will not be covered by warranty. No guarantee can be provided if you buy no original spare parts.

List of parts

1. Display	7. Trunk
2. Twist handle	8. Back rest
3. Ignition key	9. Rear view mirror
4. Front wheel	10. Seat adjust bar
5. Rear wheel	11. Seat
6. Rear light	12. Headlamp
13. Daytime running light	



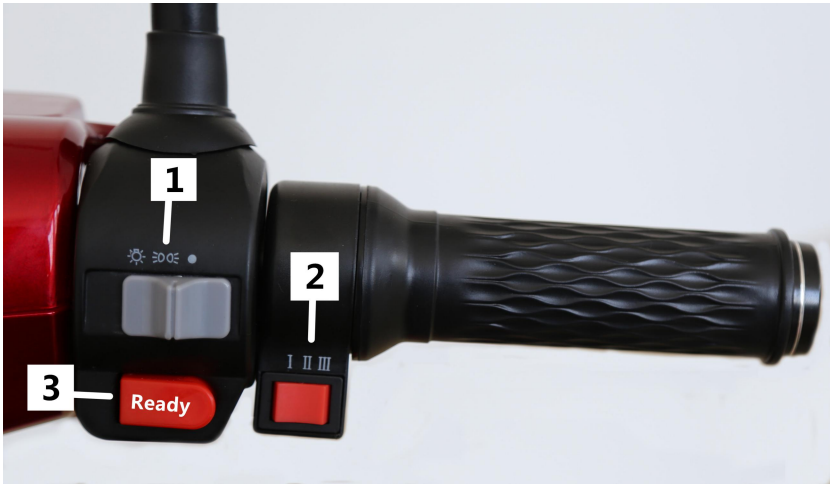
NOTES: 1. The above spare parts are only for reference. Any changes of spare parts or technology upgrades will be presented to the final product without prior notice.

2. The picture is for reference only. Any discrepancy please adhere to the actual product instead.

FEATURES



Circuit breaker: This switch is under the seat, you must open the battery box and turn to "ON" before driving the scooter.



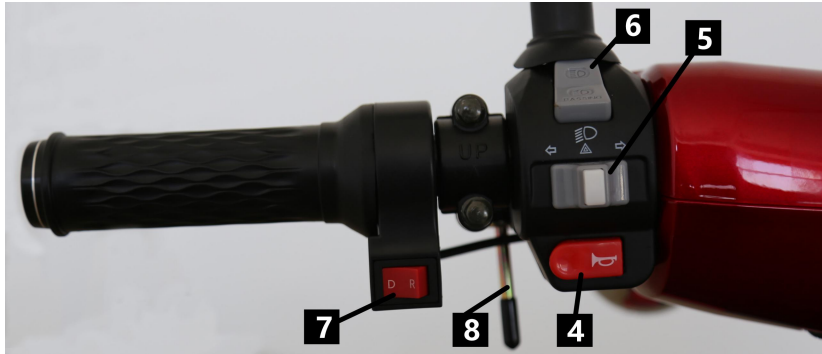
1.Light switch

- At this position, head light is off.
- ☾☾ At this position, position lamp, tail lamp and instrument lamp are illuminated.
- ☀ At this position, head light is illuminated.

2. Speed switch

3. Ready switch

Press the ready switch before driving, "READY" be displayed in speedometer. "P" in speedometer turn to "00", scooter can be drove.



4.Horn

5.Turn light switch

△ At this position, the flashing light stops when the switch is in the middle position or you press the white middle switch.

← At this position, both front and rear left turn lights flash.

→ At this position, both front and rear right turn lights flash.

6. ≡ D High beam light & ≡ D low beam light

7.Driving/ reverse:

D-Driving gear& R-Reverse gear

Tilt the switch to R, "R" be displayed in speedometer.

8. Lock button:

The rear wheel brake has a locking function to secure the scooter against unintentional rolling away. To do this, the brake must be actuated until the locking pin can be pressed in. To release the lock, slightly apply the brake again.



Display

1. Driving speed

The speedometer shows the speed in Km / h. The scooter is designed for a maximum speed of 25 km / h. The tachometer deviation is +/- 3 km / h

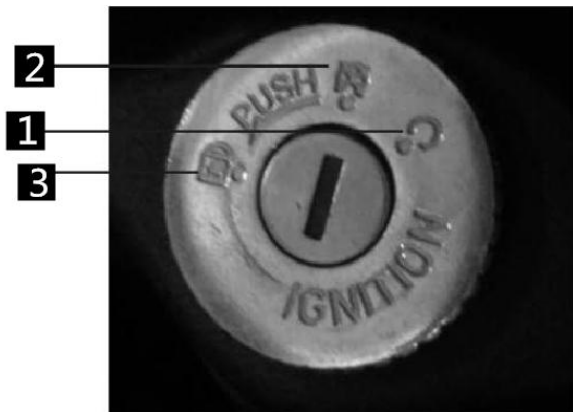
2. Battery indicator

Four vertical bars indicate the state of charge.

When the display shows only 1 bar, you should recharge the battery.

3. Mileage

After switching on the ignition, 60V(voltage for scooter) is displayed for approx. 3 seconds, then the total kilometers driven are displayed for approx. 6 seconds. Finally the display goes to 0 and will display the distance traveled.



Ignition lock

1. Turning to this position, power on, vehicle can be driven, the key can not be pulled out at this time.
2. Turning to this position, power off.
3. Turning to this position, pull out the key. At this time, steering operation is forbidden. The vehicle is locked. Before using the steering wheel lock, please turn the handlebars in the extreme left direction.

The key is also used to open and close the top case and the trunk.



USB charging socket

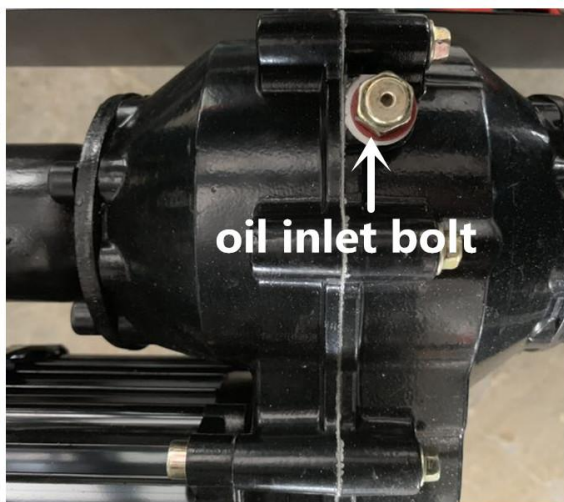
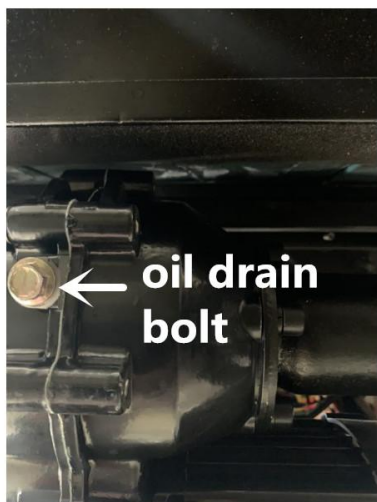
Connect your phone or USB device to the USB port to charge your device.



Seat adjustment

Pull up the lever, adjust the seat by moving forward or backward.

CAUTION: You must keep the scooter still when adjust the seat.
Make sure the seat is locked before driving.



Changing motor gear oil

Open oil drain bolt and oil inlet bolt, after the oil drained, screw on oil drain bolt, and pour the new oil into oil inlet, and screw on oil inlet bolt.

Changing Time

First time: about 1500km or 45days

Second time: 4500km or 90days

Low Viscosity Winter Gear Oils: From October to April

High Viscosity Summer Gear Oils: The rest months

The oil depends on the manufacturing date.

Brake

Replace the brake if you find it does not work well due to badly wear, especially for drum brake. If you use a new brake, make sure operate brake lever for several times before driving.

Tyre

Check the tyre before driving, if anything wrong, go to service station to fix it.

Replace the tyre if pattern depth reaches its limit (**Front wheel:1.5mm, rear wheel:2.0mm**)

Keep correct tyre pressure (**front wheel: 225Kpa, rear wheel: 225Kpa**)

Daily Maintenance

1. Please regularly wipe the scooter and keep it clean. However, do not flush the electric parts and driving parts with water.
2. Please avoid putting the scooter under the sun, high temperature and wet environment place. In case of the rainy day outdoor, please protect the rotary handles, battery box and control box.
3. Don't arbitrary reassemble or reform the scooter and use the unqualified parts. Please purchase the wearable parts in our authorized service center.
4. Regularly check the brake, fasteners, and wearable parts whether loose and make timely repair in case of trouble found. Check all the lubricated parts whether is oiling, such as damper.
5. During driving, one should always check if wheels on normal rotation, tyre on sufficient pressure, brake on normal function, brake disc or brake drum for serious were-out and indication lamps for being normal.
6. During driving, keep away pointed objects on road, or the tyre would be punched.
7. The scooter shall be stand steadily to avoid over-turn.

Note: charging and battery maintenance

1. The scooter uses the built-in charger and before charging, pull out the key, cut off the power and make sure the vehicle is locked.
2. Make sure the voltage is right before charging, and the standard voltage is 220V
3. It is charging when the light is red, and the charging time is around 1-8h. If fully discharged, it costs around 6-8h. If the light turns green, the power is full. Please keep power full, charging it at least one time per month even if you don't drive the vehicle.
4. During charging, the charger shall not be covered and shall be kept away from heat source, otherwise, the battery would be damaged.
5. During charging, the temperature of charger rise up is a normal phenomenon. However, if over 65°C, stop charging and check whether it is full.
6. Charger should be prevented contact with the liquid or metal material inside, pay attention to safety when charging.
7. Charging when discharging to 50-60% of battery capacity would decelerate its decay and improve its service life, and do not overcharge the battery, never over 24h.
8. The charger is a high-tech electronic product and shall not be arbitrarily opened, otherwise personal injury would be occurred.
9. Lower temperature would somehow impact the battery charging and discharging capacity and in winter the sustained mileage would be reduced, which is a normal phenomenon.
10. Avoid exposing the vehicle to the hot sun, high temperature will reduce the battery

life.

11. Avoid accelerating rapidly when the scooter just started, or go uphill, which could help to protect the battery.

12. The battery in the scooter is merely applicable to our own charger. Any other charger shall not be used, or else the battery would be damaged.

13. If the mileage is greatly reduced in short time, it is very possible that one piece of the battery has problem, please go to service station to check and repair.

Basic rules for recharging and maintenance of lead-acid batteries

To achieve long-term battery reliability, the following principles must be followed:

1. Before driving for the first time, make sure that the lights indicate (for battery bar) a full charge after starting. If not, charge the batteries to full value.

2. By fully charging a brand new battery, it start "battery calibration", which consists of a process from full charge to full discharge (max. 80%) and back only 2-3 times. Fully discharged means the state when the battery status indicator shows the value of the remaining 20% capacity, not a lower state. The maximum allowed depth of discharge of all lead-acid batteries is 80%. The depth of discharge must never be greater.

3. The user must not park the scooter without fully charging the batteries for even a single day, as this would cause irreversible damage. In such a case, the range would decrease and the owner would have to replace the batteries with new ones at his own expense. After the batteries are discharged (max. 80%), the user is obliged to

immediately recharge the batteries to the maximum without interrupting the charging. Repeat the process a maximum of 2-3 times in a row, you will achieve optimal battery condition. The user is obliged to regularly check the condition of the batteries, even if the scooter is not in use. If there is a decrease in the state of charge, user is obliged to let batteries recharge to a full state. In the event of battery damage due to non-compliance with these instructions, no claim can be made. Charging in the calibration phase takes less than 12 hours. After longer storage (e.g. over the winter), calibrate the batteries again. Correct calibration is a prerequisite for maximum battery life. Please also note that new batteries will only get their full capacity after calibration.

4. The next normal charging takes 6-8 hours if the batteries are discharged. Battery capacity gradually decreases with use and repeated charging, which is a natural phenomenon. The gradual loss of battery capacity is not a defect and is not subject to complaint. Lifetime is directly related to the depth of battery discharge. The less you discharge the battery and the longer you keep it in a fully charged state, the longer the cycle life of the battery will be.

5. It is necessary to ensure the so-called "balancing" of the batteries. This is a very important process that fundamentally affects the life of lead-acid batteries that are connected in series. Balancing is the process of checking the state of charge of individual batteries separately inside the machine and comparing these charge levels. The user is solely responsible for keeping the batteries in a properly balanced state. Failure to balance the batteries may void the battery warranty.

6. Even if you do not use the scooter for a long time, the batteries should be fully charged once a month (do not disconnect the cable for at least 1 hour after turning off the charger). Special attention must be paid to battery maintenance when the scooters

are not in use, especially in the winter months. Scooters often overwinter in cold areas with temperatures below freezing. During this time, it is necessary to check whether the batteries are charged, or charge them immediately. Failure to do so could result in irreversible damage that cannot be claimed.

TROUBLE SHOOTING GUIDE

	Troubles	Possible cause	Corrective measures
1	When turn on the power switch and adjust the speed handlebar, failed to start the vehicle	1.Loosing of motor connection plug 2.Loosing of battery's connection line 3.The brake disc or drum is not reset and is under the brake power-off state	1.Surely insert the plug 2.Surely fix the connection 3.Reset the brake disc or drum
2	Failure of speed adjustment or not free rotation of handle	1.loosing of adjustment handle plug 2.Loosing of magnet of adjustment handle	1.Surely insert 2.Solder and connect the wire 3.Replace fuse of the same specification
3	Charger fails to charge	1.Loosing of plug and socket of charge 2.Loosing of connection lines of battery set 3.The battery box charging fuse burnt	1.Surely insert 2.Solder and connect the wire 3.Replace fuse of the same specification
4	At charging, after inserting to power supply, the indication lamp fails to light on	Check of network	Power supply
5	Short sustained mileage of one cycle of charger	1.Insufficient charging of battery 2.Decay or damaged battery 3.Frequent braking or driving against wind or upslope	1. Sufficiently charge 2. Replace battery 3. Aids with pedal at this case
6	Other troubles	1.Abnormalities in hub motor, controller charger or battery 2.Other trouble impossible judge	Ask dealers or the authorized maintenance centers, not arbitrarily open and repair.

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

TECHNICAL PARAMETERS

NOTE: Under different models, the parameters of your electric motor technology may be related to the above list is different.

Model	CL-Z3
LxWxH	1706*718*1230mm
Wheel base	1163mm
Weight	127.5/ 153kg
Standard load	125kg
Max speed	25±1Km/h
Mileage	40±5Km
Battery	Lead acid
Battery type	60V 20Ah
Motor	Brushless motor
Motor power	1000W
Trye	Fr3.00—8, Rr3.00—10
Charging time	6-8h
Undervoltage protection value of controller	52V
Overcurrent protection value of controller	30A
Climbing angle	≤20°
Charging current	2.8-3A

Range

Range depends to a decisive extent on the following factors:

- battery status,
- weight of the user,
- driving speed,
- driving method,
- hilliness of the terrain,
- driving conditions,
- ambient temperature.

The nominal data we provide are realistic under the following conditions:

- ambient temperature 27 °C,
- 100% of the nominal battery capacity ,
- renewable drive battery with more than 5 charging cycles,
- nominal load up to 100 kg,
- without repeated acceleration,
- driving track with 0 gradient.

The range is greatly reduced:

- frequent uphill driving,
- bad battery charge status,
- low ambient temperature (e.g. in winter),
- frequent starting and braking (e.g. in city traffic),
- old, sulfated batteries,
- frequent maneuvering,

- In practice, the range achievable under "normal conditions" is further reduced to approx. 80 - 40% of the nominal value.

Climbing-ability

- For safety reasons, don't drive the scooter on inclines and declines above the permitted values (e.g. on ramps)!

Do not spray the scooter with a high-pressure cleaner! Danger of short circuit!

Warning: Any modification of the scooter by its user is prohibited.

Improper intervention in the construction of the scooter and/or the use of non-original spare parts could subsequently cause damage to health and/or property.