

Disclaimer:

You will be required to study this disclaimer carefully before operating. If any operation was made with our vehicle, it will be regarded as agreement with the disclaimer.

1. Please obey the national law, regulations and the local traffic rules when driving. The buyer should be responsible for any results caused by violation of laws and regulations.

2. When you buy the vehicle, check all the information on the receipt and keep them well after purchase. If any effect on the user caused by disagreement between the data and real E-bikes or lack of documents, the buyer should take the responsibility.

3. Please read this instruction carefully before you drive. Operate properly according to the manual when driving. Shenling will not be responsible for any results caused by misuse, over speed or overload.

4. Without the permission by Shenling on paper, the users are not allowed to disassembly or refit the vehicle. The user should be responsible for the results in the event of any violation of the above situations.

The e-vehicles here in this instruction mean Electric scooter.

Notice

Don't drop the disused battery in case of the environment pollution. The disused battery will be reclaimed by our corporation, distributors, and the designated stores by government.

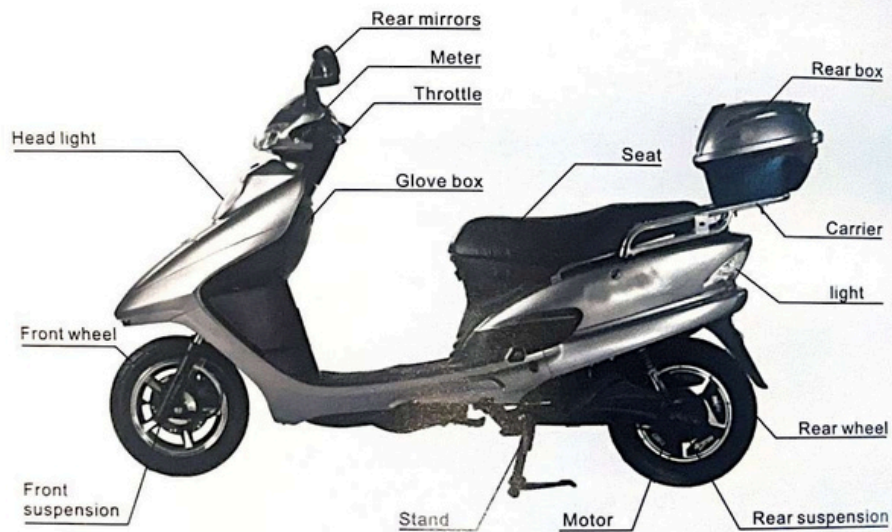
Content

General notice	3
Assembly indication.....	4
Wire chart	5
Specification.....	6
Operation Guidance.....	7
I、Preparation	7
II、Driving	7
III、Braking	8
IV、Parking.....	8
Maintenance	9
I、Charging	9
II、Oil injection.....	10
III、Regularly checking and maintenance	11
IV、Cleaning instruction	11
Trouble shooting and eliminating	12
Battery connection	13
Free maintenance provision	16
Free service under 3provisions.....	16
I、Free repairing range	17
II、Payable service range	18
Repairing Record	19

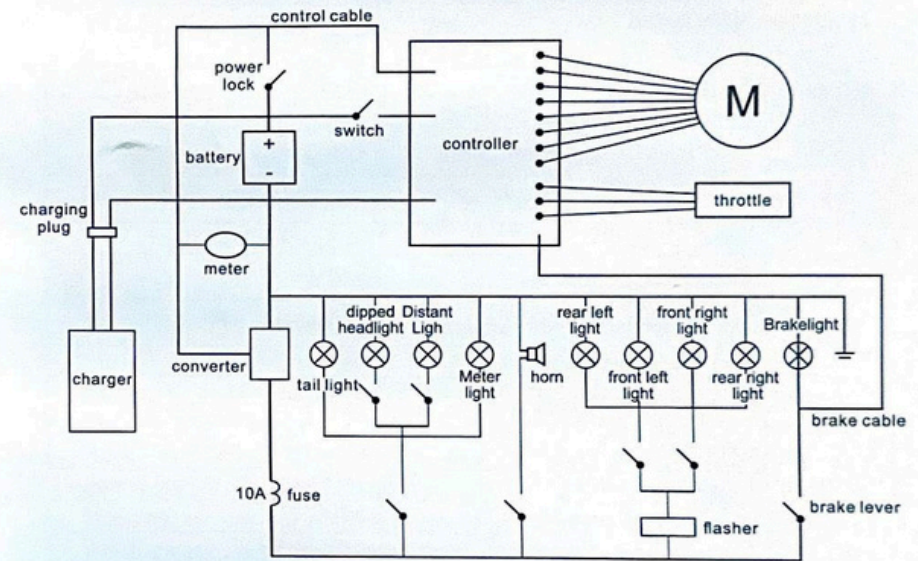
General Notice

- 1、 For the sake of correct operation and maintenance to your E-bike, ensure that it can be operated properly to long lasting usage, you will be required to study this manual carefully before operating.
- 2、 Never lend your E-bike to freshman who knows nothing about it, and never drive without reading manual or studying detailedly about its features, in case to avoid any damage or injure.
- 3、 Obey the traffic rules.
- 4、 Never drive too fast to exceed the limited speed to avoid unnecessary accidents.
- 5、 Never touch the both white terminals nor connect with metallic parts in the mean while, it will cause "short circuit" since the battery box got 36V/48V power inside.
- 6、 Power wastage effects the continuous range by the improper operation as resting driving, frequently braking, upwind driving, heavy loading, air lack in tyre. Act as following steps for further driving range—
 - A. Pedal to the speed of 3-5km/h and then turn the timing bar.
 - B. Avoid unnecessary braking when driving.
 - C. Pedal assist boosts more power to be against the bad riding situation and upwind climbing driving.
 - D. Less loading.
 - E. Ensure the tyres got full air inside.
- 7、 Fully charged after driving. Battery is easy to be destroyed due to weak-power driving, make sure the battery can be fully charged every 20days in case of it won't be used for a long period, and take off the key from E-bike.
- 8、 Never keep it directly under the sun or in the rain, high humidity or erosive environment will probably destroy the plating and painting to cause any damage leads to malfunction.
- 9、 Regularly check the brakes and never put oil on the brake cover to cause malfunction when braking. Properly use the brakes in snowy weather and when downgrading.
- 10、 Refitting or replacing is not suggested. Please go to the nominated maintenance station to get approved parts and refresh by the help of professional technician in order to get more safely driving.

Assembly chart



Wire Chart



Wire chart for normal E-motor

Specification

Body	Dimension		1660mm*645mm*1060mm
	Wheel base		1150mm
	Weight excluding battery		≤40kg
	rated loading		≤75kg
	Max. speed (normal condition)		20km/h
	Range		50-80km
	Power consumption per100km		2.5kw·h
	Tyre pressure	Front tyre	240-310kPa
Rear tyre		240-310kPa	
Motor	Type		Low speed, brushless
	Rated output power		240W
	Rated rotation speed		260r/min
	Rated voltage		48V
	Rated output torque		12N·m
Battery	Type		Lead-acid
	Capacity		10-22Ah
	Standard voltage		48V
Controller	Under voltage protection value		42V±0.5V
	Overcurrent protection value		16±1A
Charger	Input voltage		180-240VAC
	Output voltage		59VDC
	Output current		1.8±0.2A
	Charging time		2-8h

Operation Guidance

Preparation

- 1、 Carefully reading to well-know the item before driving.
- 2、 Check the tyres: make sure tyres with enough air inside; replace the tyre from nominated repairing station if the dints of outer appearance are less than 2mm or any cracks to avoid skidding when driving.
- 3、 Check the electricity system: ensure the power is enough for the estimated range; Fix the indication lights when there is any malfunction to the meter before drive.
- 4、 Check the brakes: See if the power can be cut properly when braking. Repairing before using.
- 5、 Others: check screws of body are well locked; adjust the handle bar and saddle; unlock the body before driving, well lock the rear case; release the support rack to right direction; adjust the angle of rear mirror.

Driving

- 1、 Twist the throttle gradually to control the speed from slow to fast. Slowly accelerate to protect the components when start driving, and get pedal assistance to relax the battery and motor when climbing and starting.
- 2、 Relax the throttle clockwise to get slowly driving or stopping. The speed will be faster when turn to rotation terminal during driving.
- 3、 Braking to get more slowly driving meanwhile relax the throttle when swerving to the corner. Drive in normal way after pass by.
- 4、 Braking and relax the throttle to original position when downgrading.
- 5、 Power off or braking for any emergency to avoid any unusual driving.
- 6、 Never drive in seepers which is deeper than the bottom surface of hub to avoid malfunction to the hub, although it can be drove in rainy or snowy weather.
- 7、 Never drive on the motor vehicle driveway or loading.
- 8、 Well study the features and operation before drive.

9、Many accidents occurred because of unclear situation, do in accordance with below suggestions to minimize it—

- ①. Dress in cloth in obvious color
- ②. Drive in daytime to escape from darkness situation.
- ③. Never overtake.
- ④. Never cut in the motor vehicle driveway and overtake the nearby vehicles, drive among obvious direction.

Braking

- 1、Relax the the throttle and then braking when driving. Rear brake first, then the front brake. Brake both not only one side when any emergency. Less efficiency will be caused by frequent braking.
- 2、Controller will be lack of power when braking, but it is on when relaxing the brakes. Power off and shut off the power indicator when brakes are out of control, fix by nominated repairing station.
- 3、Follow the below steps due to braking system works less efficiently in humid or watery situation—
 - ①. be more careful when braking, accelerating or swerving.
 - ②. Keep enough space between when driving.
 - ③. Keep it stands straightly.
 - ④. Pay more attention to the finishing appearance, rail, metal plate, cloacae cover, melt line of painting.

Parking

- ①. Power off after driving to avoid any sudden turning when walking by.
- ②. Don't start the throttle when parked to well protect the battery, motor and power indicator.
- ③. Take off the key.
- ④. Park indoor.

Maintenance

About charging

- 1、Charging before driving since new E-bike is of power shortage during transportation.
- 2、Choose corresponding approved charger and other components to avoid any possible accidents. Otherwise user should take the responsibility.
- 3、Connect directly or take out the battery box for charging (certain model), the best performance of the battery could be reached after 10-12times' full charging.
- 4、Charging steps
 - ①. See if the rated output voltage of charger is same as battery voltage, also the charger's input voltage should be same as common electricity netting.
 - ②. Put the battery on balanced place with venting, plug the charger into battery socket, and connect the charger plug with AC power 220V/50HZ, ensure the input charger plug well connected with AC power socket.
 - ③. Charging indicator will turns blue from red after 3-6h when charging, (time depends on the electrical capacity), continue this operation for 1-2h more to get full charged. 12h max. for one time charging.
 - ④. Disconnect the charger plug with power supply first and then the connector end with battery. Never connect the charger plug with power supply without battery alongwith.
- 5、Caution
 - ①. No cover or water on charger, only dry, ventilative indoor use.
 - ②. Never open the charger or replace the plug and cord, high voltage will cause accidents.
 - ③. Keep it away from children when charging.
 - ④. Never inverse the battery direction when charging, and operation before full charged will lessen the usage life.
 - ⑤. Never take off the battery from E-bike or power on when charging.
 - ⑥. Stop when strange smell and high temperature when charging, fix in the nominated maintenance station.

Oil injection



Regularly checking and maintenance

Check: ※ Adjust/Replace: ▲ Lubricate: ●

Check list	Everyday	60day	180days
1. air pressure, indent on outer tyre	※	※	※ ▲
2. brakes	※	▲	▲
3. horn	※		
4. charger and power supply cord	※		
5. screws, the throttle, swerving sets		※ ▲	※ ▲
6. brake gasket		▲	▲
7. Rim		▲	▲
8. Frame, front fork		▲	▲
9. bell, rear reflector		▲	▲
10. chain		●	●
11. pedals		※ ●	※ ●
12. spokes		※ ▲	※ ▲

Cleaning instruction

- 1、Never wash with high pressure watering column, the inside electronic parts and circuit will be soaked to stop working.
- 2、Wiping with Neutral lotion for painting area and outer surface, then clean with dry cloth.
- 3、Lubricating oil for metal components.
- 4、Never lubricating the brake gaskets, rims or tyres.

Trouble shooting and eliminating

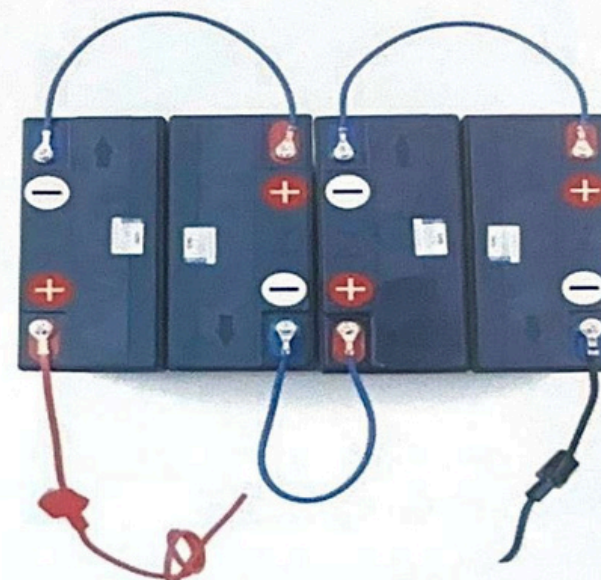
NO.	Trouble	Possible reason	Solution	Remark
1	Power on but no indication on meter, no starting.	Fuse burnt	Replace fuse	Cut off power before replacing to avoid short circuit. Or repair in nominated maintenance station if it usually happens.
		Battery cord disconnect	Connect the cord	
2	Power on but indication on meter, no starting.	Low battery voltage	Charging to full	Power connector will be reset after a while.
		Braking in other sections	Return the brakes' position	
		Timing cord disconnect	Fix in nominated maintenance station	
		Wire disconnect		
3	Less continuous driving range after full charging	Lack of air pressure	inflating	Never open the charger personally because of high voltage inside, get help from technician.
		Improper charging	Check plug and charger connection	
		Charger malfunction	Fix in nominated maintenance station	
		Battery out of usage life	replace	

Batteries Connection

Notice,

1. The small pieces batteries should be in series connection, and never connect the Negative and Positive Terminal directly, which causes Short circuit;
2. The total voltage=Unit Voltage*Total Pieces, for example, Unit Voltage is 12V, and there are 4 pcs, so the total voltage equals to 48V, i.e $12 \times 4 = 48V$;
3. soldering between the battery terminal and the connect cable can ensure wider and reliable contact;
4. Soldering should not exceed 10 seconds each time;
5. Tight the clamping screw moderately, not too much tight in case causing damaging to the battery terminal;
6. Put some suspension between these batteries to avoid the possible shocks;

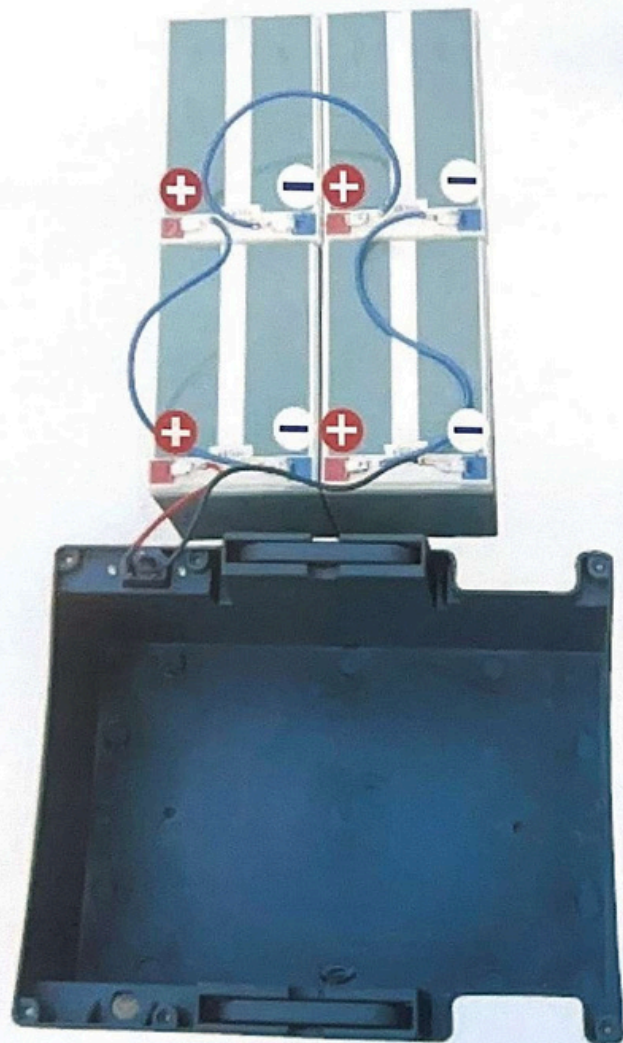
Luxury E-bike Series 48V/20Ah Battery Connection



⊕ Positive

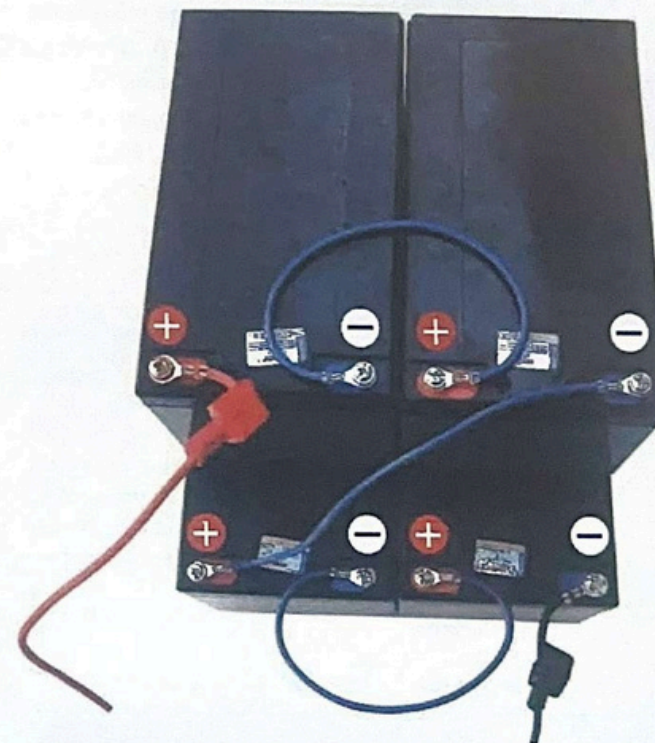
⊖ Negative

Luxury E-bike Series
48V/12Ah Battery Connection



⊕ Positive ⊖ Negative

Luxury E-bike Series
64V/14Ah Battery Connection



⊕ Positive ⊖ Negative

Free maintenance provision

Respectful User:

Please be kind to fill the After-sell service card after fully checked, as the necessary certificate to get full legal rights to take free maintenance service according to National Law.

Thanks for your cooperation!

Free service under 3 provisions

- 1、 check outer appearance before buy, no free appearance refreshing.
- 2、 Ask for formal selling invoice and stamped after-sell service card with signature after detaildly checking and studying from seller.
- 3、 Operate properly according to the manual. Shenling is responsible for quality problems under the terms of <<Products Quality Law of P.R.China>>、 <<Consumer rights protection Law of P.R.China>> and related national rules.

Free repairing range

NO.	Part	Free Period	Problem description
1	Motor	3years	Motor cover ruptured, cutting-out,winding burnt
2	Hall	6months	Irreparable function problem
3	Motor bearing	1year	Quality factor
4	Controller	1year	Irreparable function problem
5	Charger	1year	Irreparable function problem
6	Lead acid Battery	1year	Free change within 6months: Leak liquid, safe valve out of control, Cover broken, capacity less than 60%.Free repair for 7-12months(calculate from produced date)
7	Lithium battery	2years	Free change within 3months:Leak, safe valve out of control, cover broken, capacity less than 60%.Free repair for 4-6months (calculate from produced date)
8	Frame, front fork, rear fork	2year	Weld rupture, cracked ,split
9	Timing bar, brake clutch, meter, DC convertor flasher, speaker,alarm, horn, LED light	6months	Irreparable function problem,exclude bent appea rance cracking
10	Handlebar, wheel rim, middle axle, sprocket, wheel, absorber, rear carrier, seat post, main support, side support	6months	Weld rupture, distortion
11	Inner air tube	15 days	Air leak, sand hole exclude repaired or incorrect riding.
12	Painting parts	6 months	large area peeling, marked fade
13	Rear mirrors protective tube, bulb, cable, switch, brake shoe	Free repair exclude easy-damage parts	
14	The other parts unlisted	Free change for quality problem within 3 months, chargeable at cost price after 3 months	

Note: All free service for problems caused naturally only, excludes artificial operations.

Payable service range

NO.	description
1	Malfunctions caused by improper operations (like using, maintenance, adjustment) against User Manual.
2	Non-analytic problems caused by personally disassembling.
3	Problems caused by improper usage, storage, or accident.
4	No After-sell service card, effective invoice or discrepant documents..
5	Consuming parts(freewheel, axle, saddle, support, locks, lamps, fuse, brake pads, brake cord, spoke, bulb, brush, reflector, plastic parts, PP parts)
6	Personally disassemble not permitted in manual.
7	Personally repairing without permission of nominated service station
8	Free maintenance period for replaced parts are calculated according to corresponding 3provisions

Principle of chargeable service

- 1、 Cost of replaced parts required if out of free maintenance provisions.
- 2、 Bikes will be charged due to National standard.
- 3、 Battery will be recycled when replacing for obeying the environmental protection rules.



Repairing record

[illegible]

Repairing record

[illegible]