



E-Scooter

# OWNER'S MANUAL

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To customer:

Welcome you to join in electric scooter driver. To enjoy more safe and happy driving effect, you should be familiar with all contents in this operation instruction before drive. Your safety is not only related with your own a lert & operating skill, but also related with if you are familiar with mechanical performance of electric motorcycle. Each time, before drive, you should check it carefully. Besides that, periodic maintenance is also the basic condition. If you need periodic maintenance or repair, please note that only special repair station can know how to deal with the problem, and how to ensure optimum operation performance.

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## FOREWORD

This product is designed for transportation and is environmental 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.
- \* The battery with high performance offering stronger current and longer distance for drive.
- \* Front and rear suspension system providing a smooth and comfortable riding.

### Warning!!

1. Driving age according to local laws and ordinances that govern and/or restrict the use of electric bike. 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 service center or dealer for replacement or repair parts.
3. Do not borrow the vehicle to anyone that not familiar to the riding process.
4. Avoid sudden stop or braking to prevent accident.
5. Never ride with one hand. Avoid riding when drunk.

## 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 laws as all other road vehicles, including giving way to pedestrians, and stopping at red lights and stop signs.
- . 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.
- . Familiarize 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 stooping 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 condition is 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 reflective clothing and use safety lights.
- . Potholes and slippery surfaces such as line markings and train tracks all become more hazardous when wet.

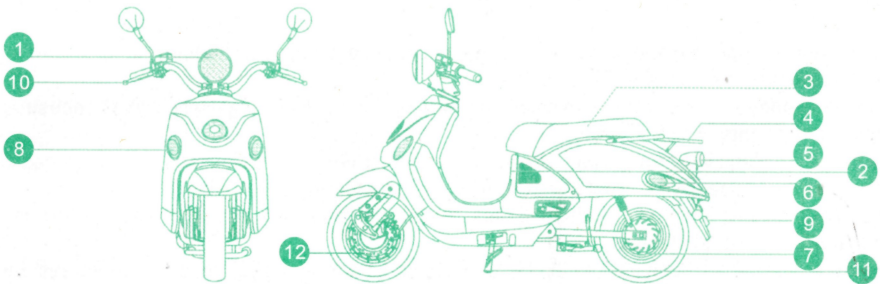
### Night Riding

- . Ensure that the front lights are on.
- . Wear reflective and light colored 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 vehicle's life. Modified will not covered by warranty. It is necessary to buy original spare parts from authorized dealers. No guarantee can be provided either for quality or durability when buying not 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 electric bike. The laws and ordinances vary greatly from municipality to municipality. 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 Front change direction a light

7. Brushless DC motor
8. Front change direction a light
9. Rear Reflect(LR)
10. Brake levers(LR)
11. Double kickstand
12. Front discbrake

NOTES: 1. The above spare parts are only for reference. Any changes of spare parts or technology upgrades will presented to the final product without prior notice.  
2. The picture is for reference only. Any discrepancy please adhere to the actual product instead.

## 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 closed.
- ☉ At this position, position lamp, tail lamp and instrument lamp are illuminated.
- ☀ At this position, headlamp are illuminated.

### horn switch

- 🔊 Pressing down, horn will give off sound.

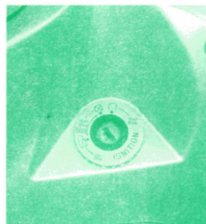
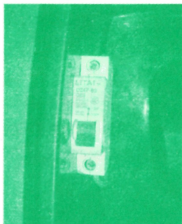
### dimmer switch of headlamp

Pressing down "☉", it is low-beam lamp; pressing down "☀", it is high-beam lamp.

### turn signal lamp switch


If turn signal lamp switch is on "←", it indicates turning left; if it is on "→", it indicates turning right.

Main switch: (Different vehicles might use different symbols)



1. Protection Switch: This switch in the seat. You must turn to "ON" before riding the vehicle.

2. Power switch

(1) ON (  ) Turning switch to this position, power supply of the vehicle will be turned on, vehicle can be driven. At this time, the key can not be pulled out.

(2) OFF (  ) Turning switch to this position, power supply of the vehicle will be turned off. At this time, the key can be pulled out.

(3) Turning the key to (  ), pull out the key. At this time, steering operation is forbidden. The vehicle and lamp are all in close condition.

3. Seat lock: The seat will be open when to "SEAT OPEN" position and pressing it. Press the seat down and it will be locked automatically.

4. Please turn off the main switch when do not use the vehicle for a long period of time.

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

Attention: Please 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:

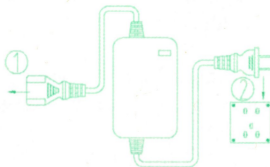
The Power Switch Lock must be in the off position when the electric scooter is being charged.

The scooter is using 60V lithium battery. You should charge your electric scooter after each ride. You must

charge your electric scooter if it has not been used for 30 days or more. Recharging time is between 6-9

hours. A. Charging on the scooter. Off the scooter by pointed the key to  . Insert the output plug to the charging socket of the scooter (refer1) and connect the input plug 220V/110V to the wall socket (refer2).

The battery is fully charged when the charger indicator shows green. Suggest giving extra 1-2 hours charging time to achieved better battery condition. Remove the charger input plug follow by the output plug when completed charging.

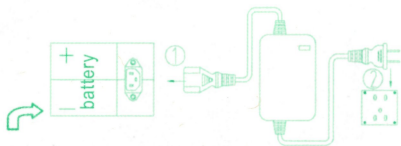


Charging socket

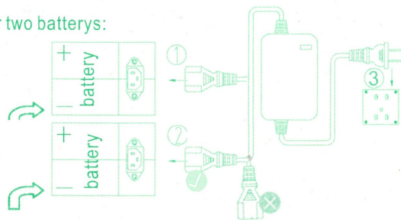
B. Remove the battery box from the seat buck.

a. Turn the ignition lock to "SEAT OPEN", then press and open it. Disconnect the plug from the battery case carefully.

for one battery:



for two batteries:



## Battery case

### Warning:

1. Do not place the battery near heat or fire. Do not expose the charger near water.
2. Do not cover the charger with anything when charging.
3. Please use the authorized charger to charge the battery or warranty will be voided. Please follow the charging instruction.
4. When there's two battery boxes, the battery pack must be charged and discharged at the same time.
5. Before connecting the battery, raise it a little as 10cm so as to connect easily.

## Kickstand

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

**WARNING:** Side kickstand function as circuit cut off system prevents scooter moving when pressing the accelerator by no intention. The scooter will start only when the single kick stand has been folded up

## Footboard

Do not put any heavy things on the footboard. This will affect the scooter's balance and caused dangers.

## Seat

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

## Front & rear brake-hub brake

Before the right and left brake levers start function it's in the free path condition. We can get the free path (10-20mm) by adjusting the adjustable nut clockwise or anticlockwise.

### WARNING:

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

## RIDING POINTS

Check below spare parts before riding the scooter:

- A. checks tire condition such as worn-out or break.
- B. checks the transmission system condition.
- C. checks tire pressure.
- D. check bugle and rear reflector condition.
- E. checks all the standard spare parts such as nuts and screws if tighten well. Check if the brake cable lanyard functions in smooth condition.
- F. Charging battery when not regular drives the scooter. To prolong the battery life, charging should do in each 15days during summer and 30days during winter.
- G. Checks all the turning parts frequently such handle bar. Add lubricant when needed.
- H. Checks all the lighting system.



## RIDING INSTRUCTION

1. Fold up the kickstand and hold onto the handlebars with both hands. Assume a well-balanced position on the scooter and push off with your foot.
2. On the power (turning the key from "X" 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 more. 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. When the brake handle is squeezed it cuts power to the accelerator.

## TROUBLE SHOOTING GUIDE

Problem	Cause	Solution
The power indicator illuminates but scooter still does not work	1. The accelerator is not operating properly 2. The single kick stand not fold up, power cut off	1. Replace the accelerator. Call Customer Service at to order a new accelerator. 2. Folded up the single kick stand.
The power indicator not working when power on	1. The fuse or fuse socket has burnt. 2. The battery box not place properly	1. Replace the special fuse or fuse socket. 2. Adjust the battery box in proper way.
Distance per charge is lesser than normal	1. Not enough air pressure in the tires 2. Not enough charging or battery is defective 3. Stopping and starting up frequently, over loaded, riding uphill, strong wind	1. Inflate the tires. 2. Recharge battery or replace battery. Call Customer Service to order a new battery pack. 3. Ride under good weather condition and even roads, and regular speed.
Electric scooter is losing speed	1. Low battery 2. Battery is defective	1. Recharge your battery for 6-9 hours. 2. Replace battery. Call Customer Service at to order a new battery pack.
Accelerator not working	1. The brake cables not in position and cause circuit cut off	1. Adjust and reposition the brake cables.

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

## MAINTAINANCE AND ADJUSTMENT

### Battery:

To prolong battery life, store the scooter in garage to prevent low temperatures and affect the battery performance.

1. Do not dismantled or dispersed the battery cells.
2. Keep away the battery from children.
3. Do not connect cathode and anode of charger during charging and discharge process. Prohibited to use any conductor to connect both cathode and anode. This will cause short circuit.
4. Prohibited battery dip in the water.
5. Prohibited placed the battery in the temperature over 60°C next to the high-temperature heat source, such as angle, heating, etc.
6. Prohibited knock on, throwing and trample the batteries, etc.
7. Prohibited edge tool or nails lacerate and cut through the battery.
8. If the leak occurred, electrolyte has come into the eyes, please do not rub. Wash immediately with plenty of water.
9. If the battery in smell, heat, smoke, changed colors, distortion or and abnormal, stop using the battery and away from it immediately.

### Cleaning:

- a. never use high water pressure to wash the scooter. Soaked electrical parts and wiring will affect the performance.
  - b. Never apply lubricant to the drum brake and the tire.
  - c. Use lubricant to clean the metal parts of the scooter.
- Use standard abluent to clean the painting plastic parts surface and wipe up by cloth.

**Brake inspection:**

**Front and rear hub brake main checking points:**

1. press the connecting link (1), screw the adjustable nut (3), at the same time holding the brake handle (2) and lead the brake lever achieved braking distance at 1/3-1/2, Let the rear brake shoes attached well to the brake tray. Press the brake levers and when it reached the braking efficiency, tighten the adjustable nut.
2. The best distance for brake shoes and hub tray is 1.5mm.
3. Replace brake shoes when the usage surface has reached 1/2.



**Charger inspection:**

1. use only authorized charger. Different country may use different charger. Do not mess-up 220V and 110V charger.
2. The power switch lock must be in the position when the electric bike is being charged.
3. Do not up side down the battery box during charging.
4. Check the charger socket if the welding work still in good condition.

**Motor and controller maintenance:**

1. during raining season, do not let the water go over the motor centerline. This is to protect motor from burnt and broken.
2. Do not press both brake lever and accelerator when starting the motor to prevent damaging other parts.
3. Slow down the scooter when the road condition is not good. High vibrations will interrupt the electrical parts connection.

**Regular maintenance:**

check ●      adjust ◆      replace ▲      lubricate ■

Parts to be tested

1. accelerator, turning parts
2. pedal assembly
3. tire and full set of bulbs
4. chain
5. brake shoes
6. rims
7. front fork
8. brake
9. horn, charger and battery

Daily

60days

180days

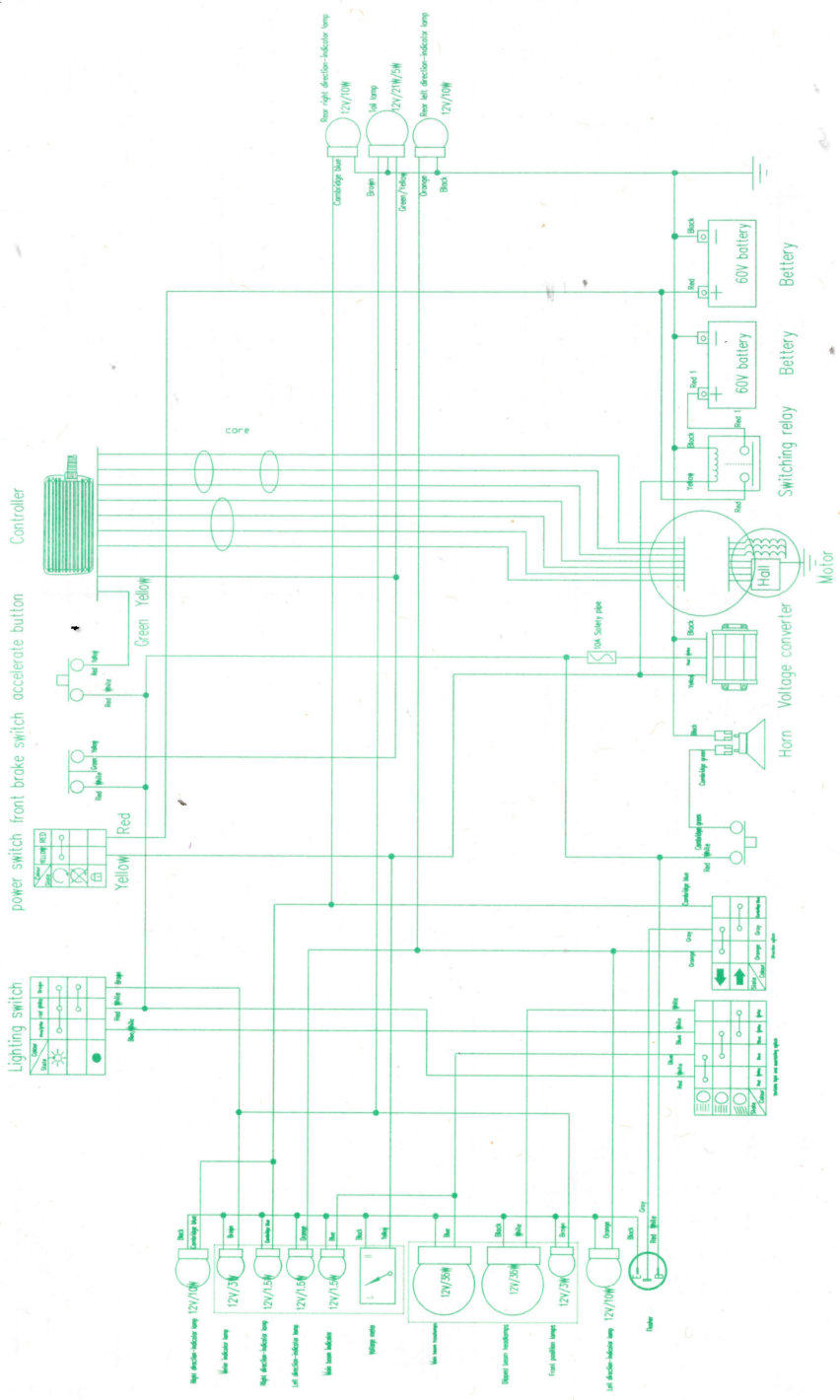
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**CAUTION:** Never try to take apart or repair the scooter by yourself.

**List of items inside the E-motor:**

1. Kit
2. Owner's Manual
3. Charger
4. battery

# Wiring diagram



Technical parameters

Model	UF8	Retro	UF4	Pony	E-Boy	FOX
L*W*H	1920x780x1150mm	1890x882x1115mm	1900x700x1150mm	1680x660x1050mm	1900x620x1100mm	1620x645x1045mm
Standard Load	75kg	75kg	75kg	75kg	75kg	75kg
Battery	Lithium battery	Silicon/Lithium battery	Lithium battery	Silicon/Lithium battery	Lithium battery (Removable)	Silicon/Lithium battery
Rated Speed	45km/h	45km/h	45km/h	25km/h	45km/h	25km/h
Inflatable pressure	250-300kpa	250-300kpa	250-300kpa	250-300kpa	250-300kpa	250-300kpa
Wheel base	1300mm	1300mm	1350mm	1230mm	1300mm	1200mm
Braking	Fr.:Disc/Rr.: Disc	Fr.:Disc/Rr.: Disc Fr.:Disc/Rr.: Drum	Fr.:Disc/Rr.: Disc	Fr.:Disc/Rr.: Drum	Fr.:Rr.:Disc	Fr./Rr.: Drum
Battery type	60V28Ah Lithium	48V33Ah Silicon/ 60V28Ah Lithium	60V40Ah Lithium	48V20Ah Silicon/ 48V20Ah Lithium	60V40Ah	48V12Ah Silicon/ 48V15Ah Lithium
Railing export distance force	140mm	140mm	150mm	130mm	150mm	150mm
Charger import	60V	48V	60V	48V	60V	48V
Range	60-70km	50km Silicon/ 60-70km Lithium	85-90km	55-60km	100km	40-45km
Maximum speed	45-55km/h	45km/h	45-55km/h	28km/h	45km/h	25km/h
Net weight	95kg	120kg Silicon/ 90kg Lithium	90kg	90kg Silicon/ 75kg Lithium	95kg	64kg Silicon/ 52kg Lithium
Tyre(front/rear)	110-70-12	3.5x10	120-70-12	3. 5-10	3.5-10	16x2.125
Motor type	3000W	1500W	3000W	800W	3000W	350W
Lack pressure protect	52.5V	42V	52.5V	42V	52.5V	42V
Charging time	6-8h	6-8h	8-10h	5-6h	8h	5-6h

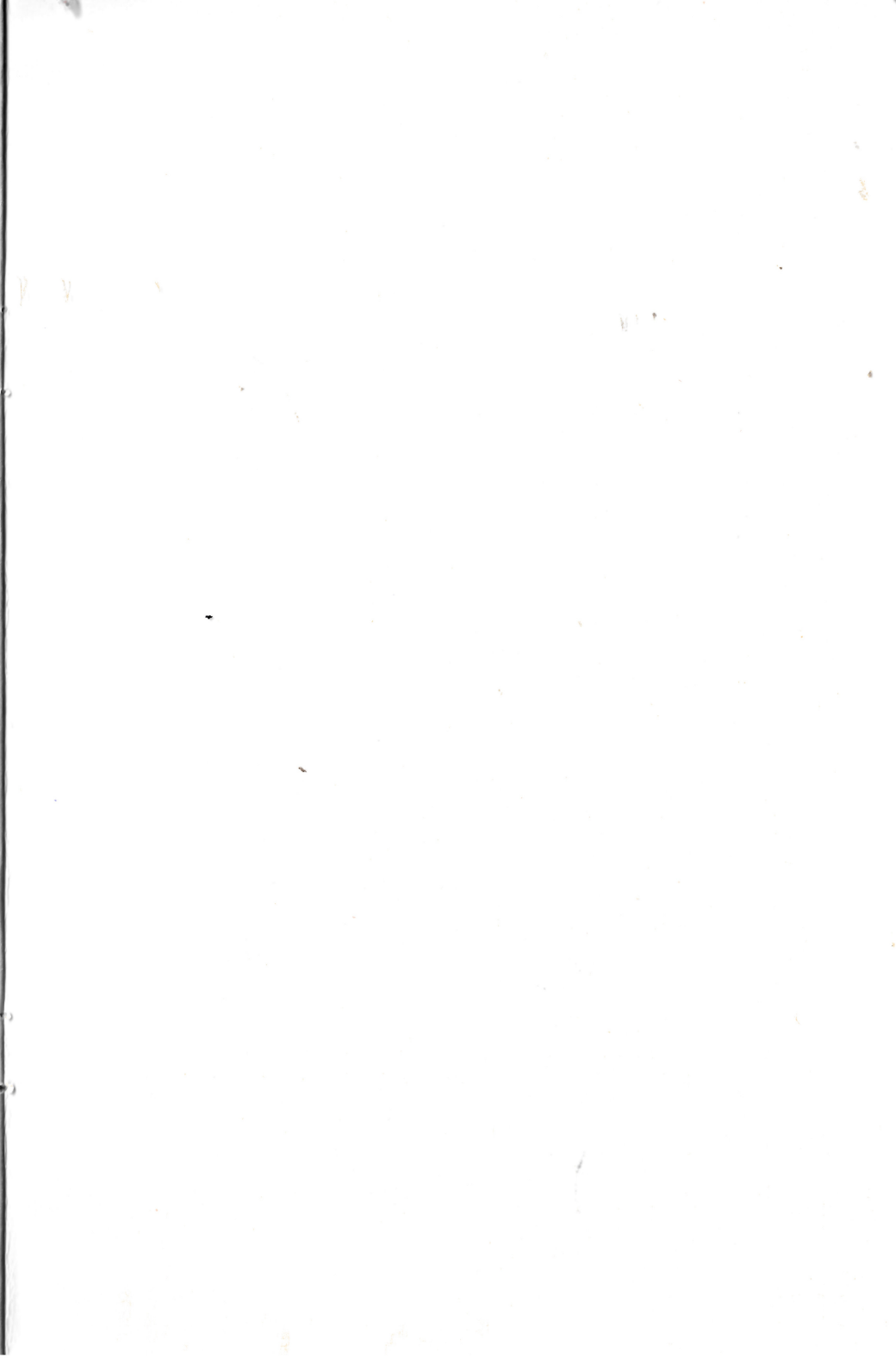
\*Under different models, the parameters of your electric moto technology may be related to the above list is different.

## Technical parameters

Model	Dragonfly	Koala			
L*W*H	1709x670x1045mm	1833x710x1115mm			
Standard Load	75kg	75kg			
Battery	Silicon/Lithium battery	Silicon/Lithium battery			
Rated Speed	25km/h	45km/h			
Inflatable pressure	250-300kpa	250-300kpa			
Wheelbase	1230mm	1360mm			
Braking	Fr.:Disc/Rt.: Drum	Fr.:Disc/Rt.: Drum			
Battery type	48V20Ah Silicon/ 48V20Ah Lithium	48V33Ah Lithium			
Rating export distance force	100mm	140mm			
Charger import	48V	48V			
Range	55-60km	70km			
Maximum speed	28km/h	45-55km/h			
Net weight	85kg Silicon/ 70kg Lithium	125kg Silicon/ 95kg Lithium			
Tyre(front/rear)	3.0-10	3.5-10			
Motor type	500W-800W	2000W			
Lack pressure protect	42V	42V			
Charging time	5-6h	6-8h			

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

Please come to the special repair shop to repair or replace if the wire is wornout or does not work



Have any question, please contact with the local dealer