

kaabo

USER MANUAL

kaabo urban



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BEFORE YOU START

It is important to read through, understand, and adhere to all the instructions and safety warnings in this manual before charging and operating this scooter.

Upon receiving and opening your box, please inspect the contents for signs of damage or loose screws from transport. If something doesn't feel right, please take a few pictures and contact your place of purchase immediately.

Your scooter comes with a 180-day limited warranty against manufacturing defects. In case of any issues beyond this time frame, we will still help you but we may need to charge a fee for spare parts or repairs.

If you have purchased your scooter from a dealer other than kaabo.com, please contact them first in case of any issues. If you still need help or you have purchased directly from kaabo.com, please feel free to contact us with any questions or concerns.

Make sure you understand and adhere to local rules and regulations for riding electric scooters. Riding an electric scooter comes with inherent risks and hazards. To minimize risk of falling or being injured, make sure you understand how to safely operate and control this scooter.

Always use good judgement, common sense, and protective gear.

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GENERAL SAFETY WARNINGS

Always wear a helmet and protective safety equipment.

Wear closed shoes without heels and ensure your laces are tied.

Do not ride with more than one rider or exceed the weight limit of 120kg/265lbs in any other way.

Only use your scooter in line with its intended purpose.

Check your scooter for any loose parts or screws, flat tires, signs of damage or excessive wear before every ride. Stop operation immediately and contact your place of purchase if something does not feel right.

Start riding slowly to familiarize yourself with the operation of your scooter. Start in first gear and slowly try out the brakes. Always slow down when riding over bumps or on rough road conditions.

Keep the scooter away from children. It is not a toy. Riders must be age 16+ only.

Do not use your electric scooter in heavy rain, or on surfaces covered by more than ½ inch of water.

Do not submerge the scooter in liquid or let any liquid near the battery or electrical components.

Do not lend your scooter to anybody unfamiliar with its operation. Ensure any new riders are familiar with these instructions and are wearing proper safety gear.

Once riding in public space, you are subject to the risks faced by all traffic participants just like when you are riding a bike.

- Other traffic participants may not obey traffic regulations or may ride carelessly.
- The faster you ride your scooter, the longer it will take you to stop.
- The scooter may slip on slippery surfaces leading to subsequent injuries to the rider. Pay special attention crossing train tracks and/or when it is wet.
- Always use caution, adapt your speed to road and traffic conditions and keep distance from other traffic participants.
- Watch out for pedestrians. Do not use your scooter in any way that could harm pedestrians.

Slow down when you are passing them to avoid accidents.

You must follow all local traffic rules and regulations.

What's in the Box:



Mantis Electric Scooter
(With detached handlebar)

Manual

2.0 A charger

Tool

Technical SPECIFICATIONS:

► SPECIFICATION-Kaabo Urban

 Kaabo Urban	
Version name:	Kaabo Urban
Color	
Battery Type	LI-Ion battery pack 18650
Battery Capacity	48V 10.4Ah
Battery Capacity(Optional)	48V 13AH
Max power	Brushless motors 500W
Max speed	25km/h
Max Range	40km
Climbing Angles	<20°
Max Load	100kg
Charger	54.6V2A 1+ 2-
Charging time	Around 5 hrs
Shock Absorber	Front and Rear C type spring shock absorber
Brake	Disc brake+EABS (< 120mm)
Light	LED front light+Turn Light+Brake light
Controller	Kaabo Sina Wave controller
Display	embedded display
Open size	1170*540*1190mm
Folding size	1170**540*570mm
N.W.	20KGS
G.W.	25.5KGS
Packing box size	1220*260*650mm
Tyres	8.5*3.0 vacuum tire
Product materials	Handle and stem with 6061 aluminum alloy; frame connection,swing arm and rotating head with 6082 aluminum alloy; deck with 6063 aluminum alloy ;
Litterae Credentiales	IPX5 CE(EMC MD LVD) ROHS FCC

SAFETY INSTRUCTION

► Tips

This Chapter is very important. Please read carefully and understand all the instruction. We will not be responsible for any property loss, casualties, accidents, legal disputes caused by violation of the safety instructions on chapter.



► Safety Instruction

1. Do not drive in rainy days.
2. Do not repair by yourself electric shocks can occur.
3. Please abide by the local road traffic law.
4. Do not acrobatics.
5. One scooter for one person only.
6. Better to wear safety protective equipment such as a helmet, gloves, elbow and knee pads when ride.
7. Please practice on open ground first, and then ride on the road.
8. Adjust to a suitable height to avoid injury.
9. Suggest charging six hours before the first time to ride the scooter.
10. Do not cut off the power when scooter is running.
11. Do not climb a step higher than 3cm to avoid turning over and possible injury.
12. Use and storage scooter temperature range is -5°C to 40°C.
13. If left a long time no use of the scooter charge it once every month to maintain the longevity if the battery.
14. Do not ride in puddle deeper than 5cm or avoid sprayed directly by water in case of motor or electrical faults.
15. Keep feet on pedal when the scooter is run table.

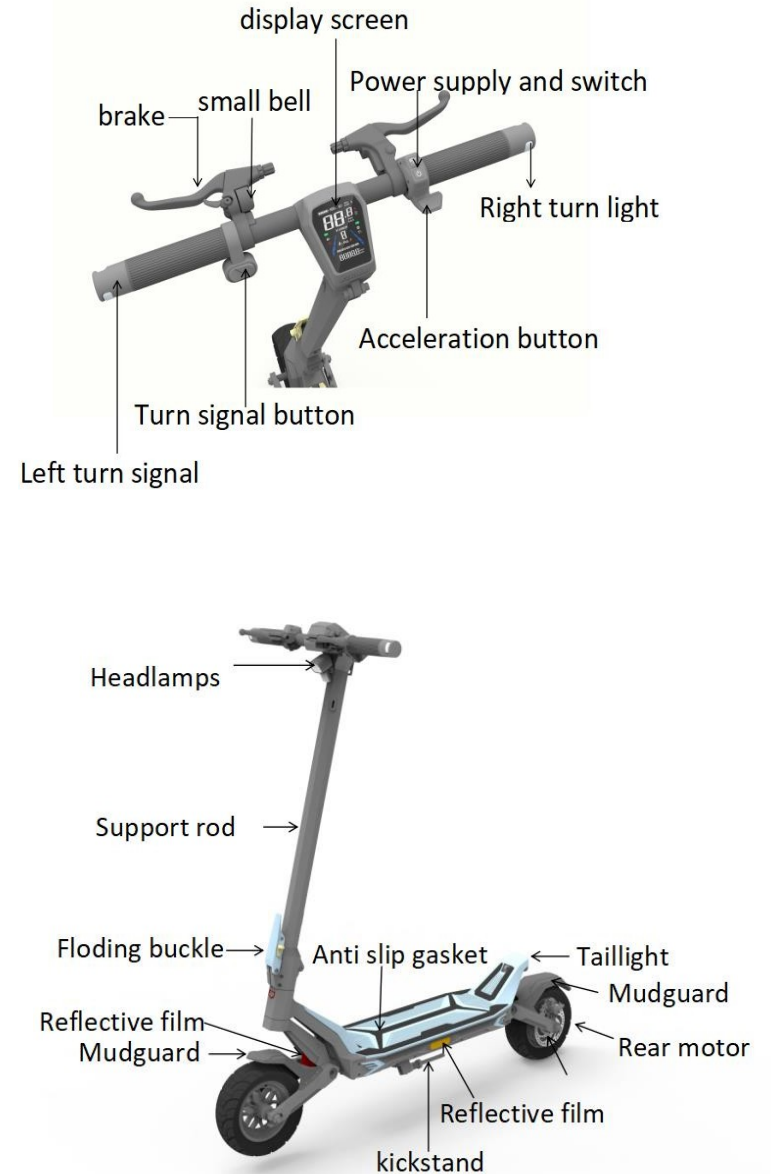
Devices are not intended for use at elevations greater than 2000 m above sea level.

Prolonged Exposure to UV Rays, Rain and the Elements May Damage the Enclosure Materials, Store Indoors When Not in Use
WARNING – Risk of Fire – No User Serviceable Parts

AVERTISSEMENT- Risque d'incendie et de choc électrique - Aucune des pièces ne peut être réparée par l'utilisateur



Key Components



Charging the Mantis:

1. Turn your scooter off
2. Locate the charging port
3. Open the charging port cover
4. Connect the charger to the scooter's charging port
5. Plug in the charger to the wall power outlet

The LED on the charger will turn red while charging and turn green when the scooter is ready for use. Remove the charger and cover the plug. Charging time with the included 2A charger is 5-7 hours for the Mantis 10.4 Ah version.

Battery Maintenance

We suggest charging your scooter after every use. This is not required but recommended.

A lithium-ion battery is a consumable device. Please replace with a new battery once capacity drops below 50% of what you experienced initially. Contact your place of purchase for a replacement.

Make sure the battery is charged and that the scooter is turned off before storing your scooter for extended periods at a time.

Store your scooter in a dry and cool place. Do not keep it outdoors or in outdoor sheds for extended periods of time, as excessive cold temperatures, heat, sunlight, rain, or other environmental conditions may impact safe operation and reduce the scooter's lifespan.

Charge your battery at minimum every 3 months to prevent it from running completely empty. Once the battery runs completely empty due to slow discharge while in storage, it may have to be replaced.

Batteries perform poorly at low temperatures. For instance, if the temperature is around 0°F (-18°C), battery capacity reduces by 50%. Capacity will restore to normal when temperatures rise.

Battery life and riding ranges will vary depending on usage, climate, conditions, rider weight, and/or riding style, proper care, and maintenance.

Battery Disposal

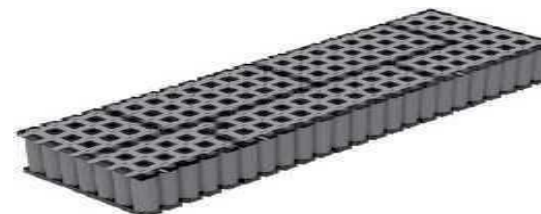
Do not dispose of your battery by way of land filling, incineration, or household trash.

We recommend disposing your battery through a local recycling program suitable for lithium-ion batteries. Contact your local waste management service for more information.

Mishandling of used batteries may do tremendous harm to the environment. You must abide by local laws and regulations to properly dispose of used batteries.

Charging Warnings and Battery Safety Warnings

- Use caution when using outlets to prevent electric shock.
- Do not leave the charger plugged in for extended period of times (>24 hours).
- Only charge your scooter in a safe, clean, and dry environment. Keep the charger and scooter away from inflammable materials as they may get hot.
- Only use the original battery packs and the original charger supplied with your electric scooter. Contact your place of purchase if you need a replacement. Use of other models or brands may not be safe.
- Do not touch any part of the USB charging prongs and keep them away from metal objects to prevent short circuiting which may result in battery damage or physical injuries, and/or death.
- Do not place the battery in direct contact with heat or near high temperatures. Do not expose the battery to direct sunlight. Do not leave the scooter in a car where the battery might get hot.
- Do not pierce the battery with sharp objects. Do not subject it to impact or force.
- Stop charging if the battery fails to recharge within the approximate charging time. This will prevent the battery from overheating, rupturing, or igniting.
- Do not charge the battery in temperatures below 32°F (0°C) or above 104°F (40°C) as this can hamper performance, result in breaking, overheating, rupturing, or igniting and could cause personal injury or property damage.
- Do not charge your scooter if the charging port on the scooter is damaged or wet. Do not charge if there is excessive heat, odor or leakage coming from the battery or it looks abnormal in any way.
- If the battery leaks and you accidentally get in touch with the liquid, rinse immediately and thoroughly with water and then seek medical care.
- Never attempt to disassemble, modify, perform repairs or maintenance on the battery. You run the risk of damaging the protective and safety components that prevent incidents, personal injury or property damage.
- Mishandling or misuse of the battery can result in lower performance, shorter lifespan, rupturing, igniting, or other incidents and could increase the risk of serious personal injury.
- Do not discharge the battery using any other product than the scooter it comes with. Doing so could result in damage to the other product or the battery, and reduced lifespan of your scooter. The battery could overheat, rupture, or ignite and cause personal injury or property damage.



Assembling the Mantis



Before driving , please make sure the quick release was locked , this is very important .

► Open



Step1:
Lift and straighten the handlebar stem.

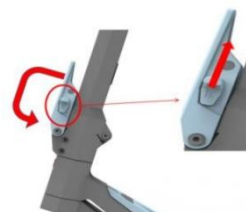
Step2:
Push the grip lever upwards to make it close to the handlebar



Step3:
Finished.

Folding your Scooter

► Fold



Step1:
Pull up the lock buckle and then pull down the handle

Step2:
Put down the fold rod and snap the folding hook in position.



Step3:
Finished.



Turn Signal



The switch is located on the left side of the handlebar. When the left or right turn signal button is pressed, the turn signals located on both sides of the handlebar grip will flash continuously for approximately 12 seconds. The flashing can also be manually stopped by pressing the corresponding turn signal button again.

KAABO Instrument key function



1: NFC Induction region 2: Power key 3: Light Switch / Mode Key

Instructions for use:

- 1: Press the power button for 2 seconds to start the instrument.
- 2: After the meter is turned on, When the page shows NFC unlock screen, you need to put the NFC card into the NFC induction area of the instrument to unlock.
- 3: After the display is unlocked, you can adjust the gear with the M keys to suit your riding needs. There are 1-3 gears to choose from, 3 of which are maximum gear speeds, You can also turn the headlights on and off by long-pressing the M key.
- 4: Accelerator: Press to accelerate. The stronger you press, the faster it accelerates. The scooter is delivered in "Non- Zero Start" setting (Kick- And- Go is ON), i.e. the accelerator only works if the scooter is already in motion.
- 5: After the meter is unlocked, tap the POWER key to check the contents



Do not wait to charge until battery is fully running out. charge the scooter timely when there is only one rectangle or two left to avoid damage of battery.

6: After powering on the power supply and unlocking the NFC, simultaneously hold down the MODE key and POWER key to enter the setting

MODE	Description
P1	Motor wheel diameter set, Set according to the actual wheel diameter, The general value is 8-14, The default is 8.5, please do not change
P2	Speed limit as % of top speed, i.e. 100 = no speed limit.
P3	Motor magnetic pole setting. Default is 20 or 30. Do not change.
P4	E-ABS, 1 = EABS ON 0 = E-ABS OFF
P5	EBS, 1 = EBS is the weakest, 2 = EBS is slightly stronger and 3 = EBS is the strongest
P6	Start setting. 1 = non-zero start (Kick-and-Go), if the scooter is not moving, the accelerator will not work; 0 = Start immediately (note when using)
P7	Fixed speed cruise setting, 0 is no fixed speed cruise, 1 is automatic fixed speed
P8	System voltage, 48V 60V 72V, default 48V please do not change
P9	Undervoltage value, 38V 48V 58V default lock 38V please do not change
P10	Starting mode, 0 is hard start, a total of 5 levels can be selected, 1 is the soft start, 4 is the softest start
P12	Resetting the trip mileage. Users can reset the trip mileage on the instrument panel by selecting the P12 option. When P12 is selected and set from 'n' to 'y', lightly press the power button. When 'y' changes back to 'n', it indicates that the operation has been successful.
UNT	System unit
BLG	Instrument backlight Settings, 1 gear, 2 gear, 3 gear can be selected, 3 gear for the brightest backlight mode
SLP	The scooter instrument can be set to automatically shut off within a range of 0 to 30 minutes. After the setting is completed, if there is no activity and no current flow detected within the set time, the scooter will automatically power off. If the sleep timer is set to 0, it means the scooter will not automatically shut down.
DSP	Instrument software version number
SPO	Sport Mode (Only activates when this feature is available.)
RST	Restore factory settings.
PSD	This option represents the unlock password for the instrument panel. Setting the password to '0000' means that there is no password required upon startup.

Advanced Settings:

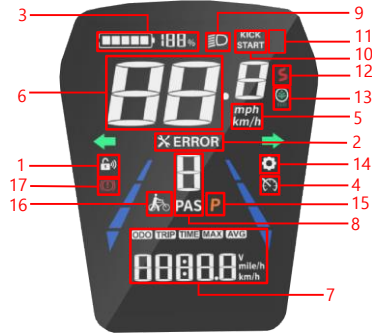
When the instrument has just been started and unlocked, long press M key for 2-3 seconds to enter the setting, You can select SET to enter P setting by pressing the up and down buttons of the instrument, select SEL and enter the password 1500 for P setting. Press the up/down key to select the corresponding P option, After setting, and long press the M key to return.

Cruise Control System:

When the P7 is set to 1, maintaining a constant speed for about 3-5 seconds during acceleration will activate automatic cruise, The cruise can be cancelled by braking when driving on Cruise Control

KAABO Instrument Display

The Mantis scooter is equipped with the following display:



- | | |
|---|---------------------------------|
| 1: Indicates the NFC generation unlock mark | 9:Lighting indicator light |
| 2: Indicates a fault | 10:non-zero start 11:blue tooth |
| 3: Electric quantity | 11:Alternative |
| 4: Cruising mark | 12:sport mode |
| 5: Unit of velocity | 13:ECO mode |
| 6: Speed display | 14:Settings indicator light |
| 7: Subtotal mileage, riding time, total mileage and voltage display | 15:Parking gear |
| 8: Gear display | 16:Pushing mode |
| | 17:Brake signal |



Boot screen -NFC unlock:



The startup interface will be displayed when the device is powered on. After the communication connection is established, the instrument will enter the NFC page to be unlocked. After swiping the card, the instrument will enter the home page. The meter does the actual display with the information obtained from the controller communication.

Display NFC learning card

After unlocking the vehicle using a password or NFC card and displaying the main page, if you press the M key ten times consecutively within 15 seconds, it enters the card writing interface. At this point,

the NFC letters and  on the instrument panel will flash, indicating readiness to write the card. Place a prepared blank NFC card onto the NFC card reader area of the instrument panel. When the  stops flashing and the number on the PAS display increases by 1, it confirms successful card writing. The number on the PAS display indicates the quantity of cards successfully written.

SCOOTER MAINTENANCE & TRANSPORT

Never perform maintenance on this product while the unit is powered on or charging. Always power off before performing maintenance. **Do not attempt to perform repairs or modify the scooter but contact your place of purchase or refer to a professional repair facility.**

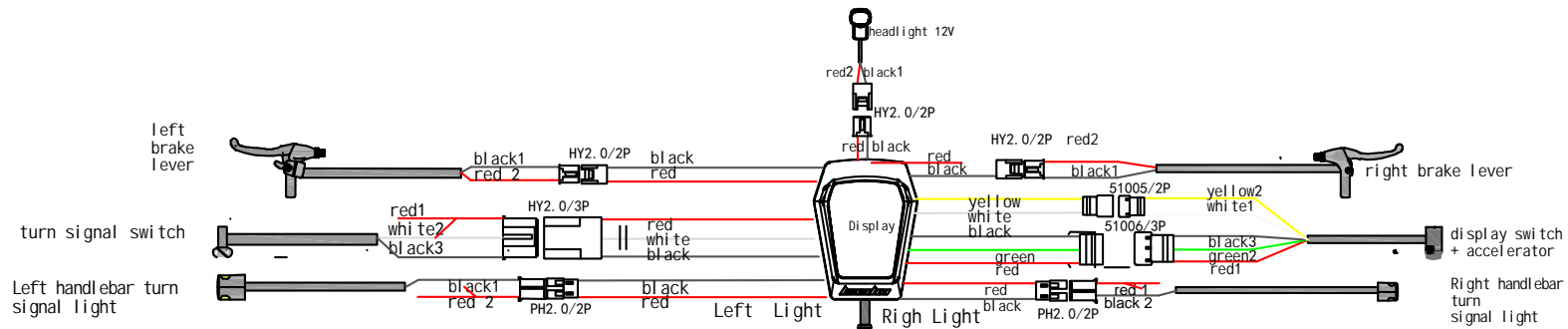
Clean stains on your scooter's body with a damp cloth. Do not use alcohol, gasoline, kerosene, or other corrosive and volatile chemicals. Do not wash with high pressure cleaners. Make sure the scooter is turned off and unplugged during cleaning and ensure no moisture enters the charging port.

When transporting your scooter, please take into account that it contains lithium-ion batteries that are considered a hazardous material.

Always exercise caution and follow applicable rules and regulations when transporting your scooter. It is very likely that you will not be allowed to take your scooter and battery on an airplane.

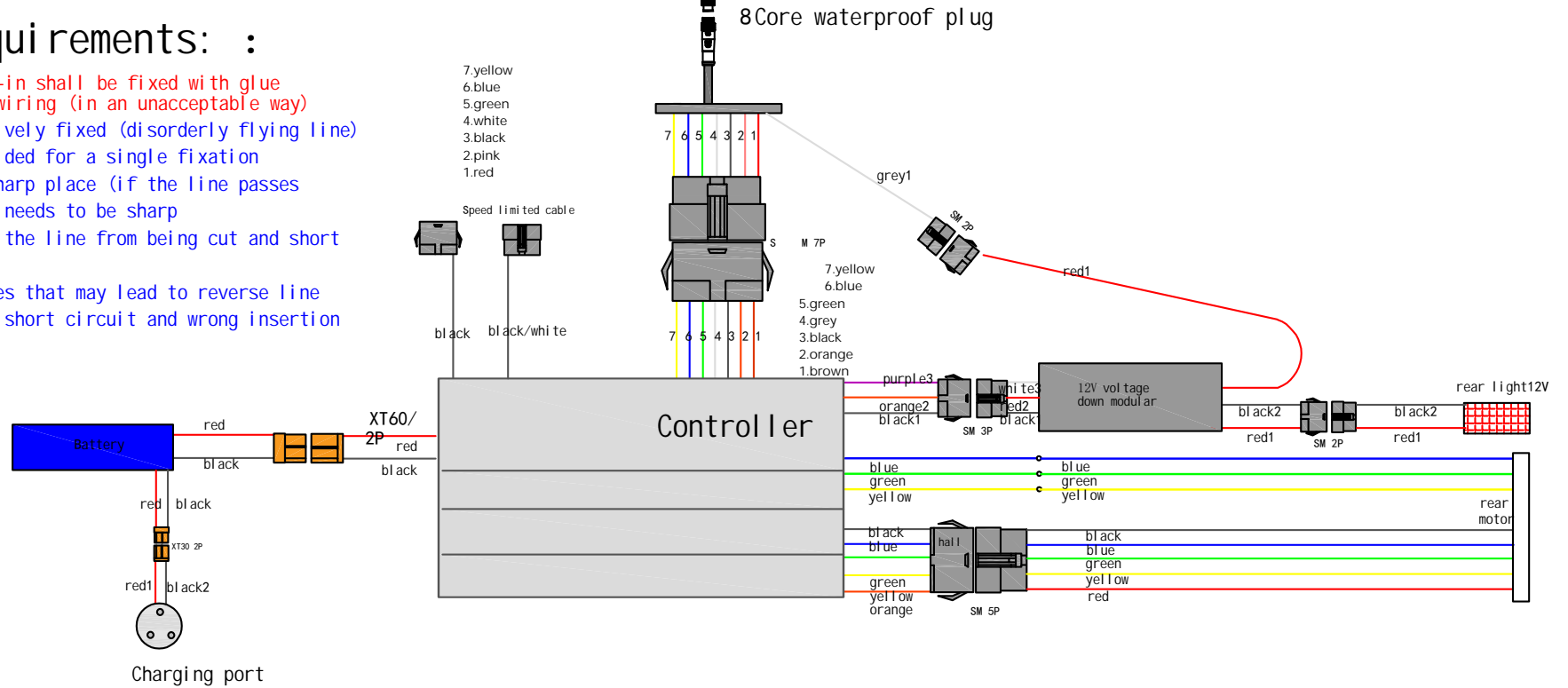


NOTE: The screws in the 1.2.3 position shown in the figure, in order to prevent metal fatigue accidents, please replace these 5pcs screws after each year or reach 5,000 kilometers. Please check and maintain every three months at the nearest after-sale maintenance store.



Wiring requirements: :

- A: The internal line plug-in shall be fixed with glue
- B: Warning for internal wiring (in an unacceptable way)
- 1: The line is not effectively fixed (disorderly flying line)
- 2: The line is closely welded for a single fixation
- 3: The line may touch a sharp place (if the line passes through a sharp place, it needs to be sharp local wrapping to prevent the line from being cut and short circuit)
- 4: Other wrong wiring modes that may lead to reverse line connection, uninserted, short circuit and wrong insertion



NOTE: INFORMATION, SPECIFICATIONS, WARNINGS AND ALL OTHER DETAILS INCLUDED IN THIS MANUAL ARE SUBJECT TO CHANGE AT ANY TIME, WITHOUT PRIOR WRITING. INQUIRE WITH THE VENDOR'S AFTER-SALES DEPARTMENT FOR MORE INFORMATION.

