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INTRODUCTION

Dear customer,

*By purchasing the **PIPER**, Electric scooter, you have opted for a product which has been assembled by professionals, using carefully designed and manufactured parts. Your dealer has carried out the final assembly and checked its correct operation, allowing you to enjoy your **PIPER** from the very first rev of the engine.*

*This manual contains many practical tips to help you get started with your **PIPER**, as well as useful information on its technical aspects, maintenance and care. Take time to read it thoroughly.*

This manual is not intended to teach you how to operate an electric scooter. Riding an electric scooter requires you to be aware of the risks to which you are exposed. From the very first meters, bear in mind that your ride is silent unlike a thermal scooter. Therefore, drive carefully for yourself and other road users.

*As with all modes of transport, riding an electric scooter involves risks. Therefore, stay alert and be aware of the potential dangers and their consequences. Remember that you are not protected in an electric scooter like in a car by a body, ABS or airbags. Never ride while under the influence of drugs, alcohol, or medication, or if you are tired. Gradually familiarize yourself with the operation of your **PIPER**.*

Do not use mobile phones while riding and always keep both hands on the handlebars.

*In order to guarantee you lasting pleasure, we recommend that you always check the function of your **PIPER** before using it.*

NB: Never ride without an approved helmet and gloves that are properly fitted, and always wear clothing that is appropriate for scooter riding, in bright, conspicuous colours. Drive moderately, obey the rules of the road and observe traffic regulations for your safety and that of other road users.

Remember that your approach is quick and silent. Avoid frightening pedestrians, cyclists or cars. Signal in good time and sound your horn or slow down to prevent accidents.

We wish you a safe journey.

PRECAUTIONS BEFORE USE

- The **PIPER** electric scooter is approved as an MTL vehicle of category L1e (light motorcycle with a cubic capacity of up to 50 cm³ and a power of up to 3 kW)
- The use of **PIPER** requires the Road Safety Certificate (BSR).
- Wearing an approved helmet and gloves is mandatory
- **Never store the PIPER with a discharged battery as this could cause serious and irreversible damage to the battery (loss of warranty).**
- Before each use, it is advisable to carry out a quick check of the condition of the tyres, the lights and the braking system (For more detailed maintenance instructions, see maintenance schedule).
- Avoid driving the scooter when the battery temperature is below -10°C.
The range of your scooter may be impaired under these conditions of use.
- The absence of noise generated by the **PIPER** can sometimes make you forget that it is on. It is therefore important to remember to always turn the ignition switch to OFF before operating the **PIPER** or before moving away from it.



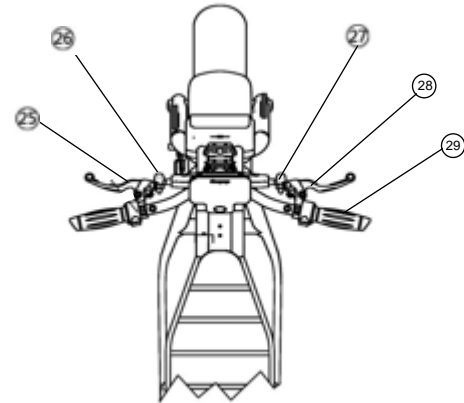
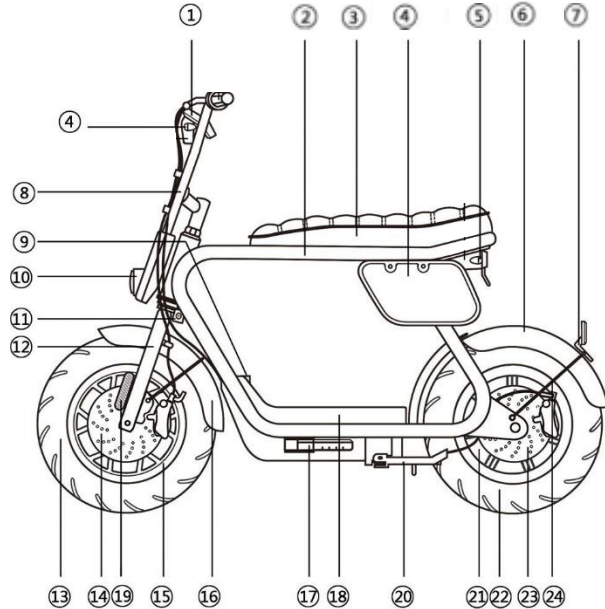
WARNING

ADVERSE WEATHER CONDITIONS

Never leave your **PIPER** in heavy rain, snow or strong sunlight.

Failure to follow these instructions may result in serious personal injury and / or property damage

GENERAL OVERVIEW OF THE PIPER

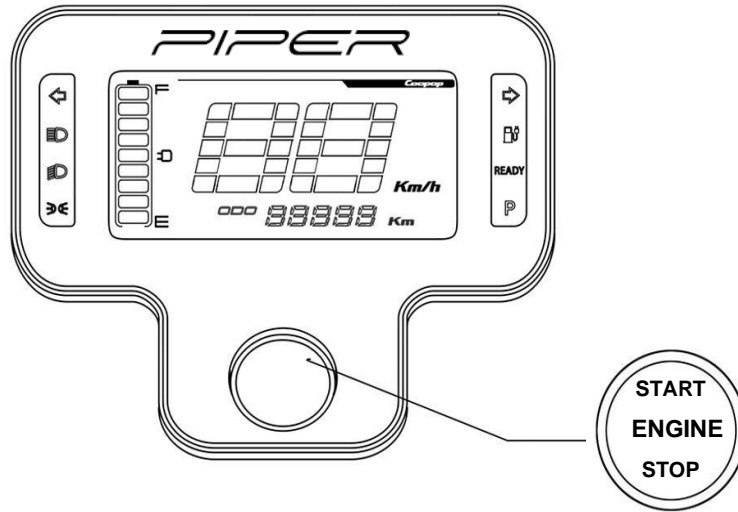



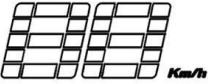









1	Meter
2	Frame
3	Seat
4	Decorative plate
5	Rear Flasher light
6	Rear fender
7	Rear reflector
8	Handlebar
9	Battery cover lock
10	Headlight

11	Steering lock
12	Front fork
13	Front tyre
14	Front brake disc
15	Cast wheel front
16	Front fender
17	Footrest
18	Battery cover
19	Front reflector
20	Side stand

21	Engine
22	Rear tyre
23	Rear brake disc
24	Brkt., rear fender
25	Rear brake lever
26	Front flasher light (left)
27	Front flasher light (right)
28	Front brake lever
29	Throttle grip

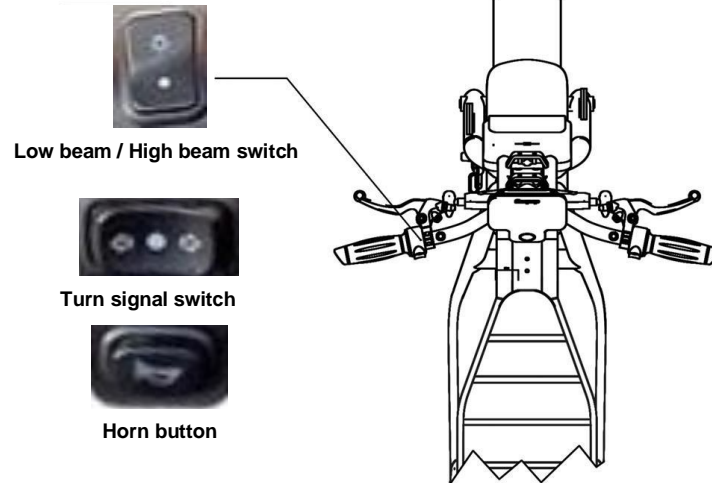
DASHBOARD



 High beam light	READY Ready signal	 Km/h Speed per hour	 Power
 Low beam light	 Low power signal Battery power less then 13%		 67-100%
 Left signal	P Side brace power off		 67-33%
 Right signal	000 88888 Km		 0-33%
 Position lamp	Total mileage		

OPERATION OF SWITCHES

Left switch handle



- **Low beam / High beam switch** : When starting the PIPER, the lights are in the "low beam" position. Press the button once and the lights will switch to high beam mode.
- **Turn signal switch** : Push once on the right or left side of the button and the flashers lights will start flashing. Press the same button a second time to turn the indicator off.
- **Horn button** : Press the button to sound the horn.

REMOTE CONTROL OPERATION AND ALARM ACTIVATION

Anti-theft alarm

The PIPER is equipped as standard with an Anti-theft alarm which is triggered when a person tries to move it. To understand how it works, follow the procedure below.

Locking and unlocking

Starting the PIPER without the key

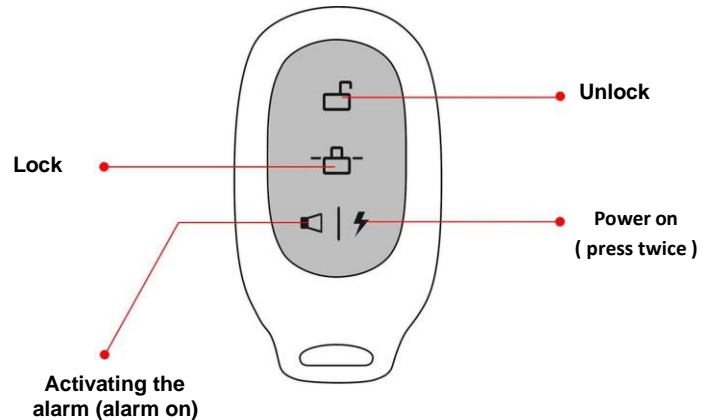
- Press the “ Unlock ” button (twice in a row) to start the PIPER.
- A sound will be emitted, and the dashboard will turn on. In this way the PIPER is unlocked.
- If the PIPER is not used within 3 minutes, it will automatically lock.

Switching off the PIPER

- To lock the PIPER, press the “ Lock ” button.
- The PIPER’s rear lights will flash, a sound will be emitted, the instrument panel will turn off and the steering will lock.

Activating the alarm

- Press the "Alarm On" button.



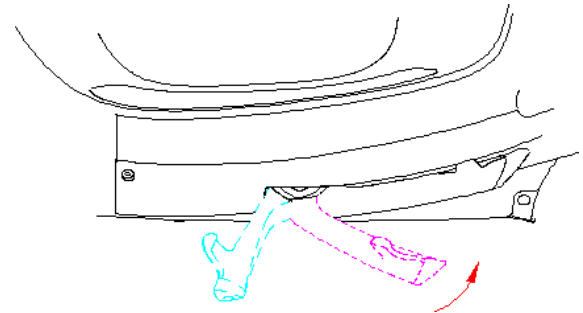
STARTING THE SCOOTER

Inspection before usage

- Check that the handlebar moves freely and allows wheel control.
- Check that all the buttons on the right and left handlebar are working properly.
- Check that the throttle grip (on the right) works normally.
- Make sure that the tyres are properly inflated (see the recommended tyre pressure on the side of the tyre). Check that the tyre has no snags on the tread and sidewalls. The maximum permissible wear is 0.8 mm
- Inspect the front and rear brakes and operate the levers to check that they are working properly.
- Make sure that by placing the PIPER on the side stand, the scooter turns off.
- Check that the meter / dashboard works.
- Check that the battery level is at maximum.
- Check that the front, rear, license plate, and turn signal lights work normally.
- Make sure that the horn works normally.
- Clean the mirrors and adjust them according to the driving position..
- No errors or malfunctions must appear before starting.
If not, contact your dealer.

Starting the scooter

- Insert the key into the switch gear and turn the key to the "ON" position.
- The front headlight and license plate light come on.
- Place your hands on the handlebar and lift the side stand.
Gradually rotate the throttle grip (to the right of the handlebar) and the PIPER will move forward



Side stand

Inserting the battery

- Open the cover by turning the key
- Put the battery in the compartment.
- Connect the plug to the battery terminal
- Switch on the circuit breaker.
- In order for it to be properly connected, you must hear a " click ".

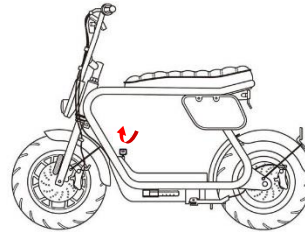
Removing the battery

- Open the cover.
- Turn the blue ring on the battery cable and pull the plug.
- Remove the battery.

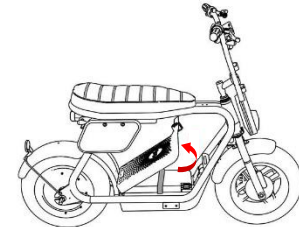
Your battery has a serial number. It is assembled in a special shell. Under no circumstances should you attempt to open it.

Any breach of the warranty label will automatically void the warranty.

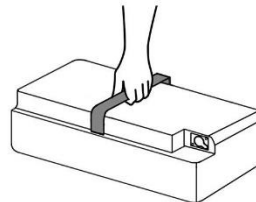
For safe charging, first connect the charger to the mains socket (220V/50 Hz) and then connect the charger to the battery.



1. Turn the key to unlock.



2. Lift the cover battery box.
Switch off the PIPER.



3. Remove the battery by carrying the handle.



THE CHARGER

The battery charger delivered with your PIPER complies with CE manufacturing standards and IEC / EN 60335-1 environmental protection standards. It has also been specially designed to recharge the battery. Charging takes between 4 and 6 hours depending on the ambient temperature and battery wear.

Model : 48 volts
Voltage : AC 100 -240 V
Smart charger for Lithium-ion battery
Frequency : 47-63 Hz
Charging voltage (charge) : 48 V+/- 5 V
LED power indication: red on charge
LED charge indication: green charged or disconnected from the battery.
Operating temperature range: between 10° C and 35° C
Safety standard EN60335 –1- A2 –2006

On the top of the charger, the "charge" diode indicates the charge level of the battery. When it is red, the battery is charging, and it turns green when the battery is recharged.

ATTENTION !

ATTENTION! FOR YOUR SAFETY IT IS FORBIDDEN TO OPEN THE CHARGER (RISK OF ELECTRIC SHOCK / HIGH VOLTAGE). CONTACT YOUR DEALER FOR ANY CHARGER FAILURE PROBLEMS.



Charger protection

- Do not expose it to rain
- Do not leave the charger disconnected from the power supply (220 volts) and connected to the battery
- Do not dip it.
- Do not place any object on the charger or cover it.
- Take care of the charger's electrical wires.
- To protect the charger after a long charge (more than 24 hours) unplug the electrical connection and leave the device in a dry and ventilated place
- Avoid leaving the charger connected to the mains for more than 24 hours.

WARNING

VENTILATION OF THE EXTERNAL CHARGER

External chargers contain a cooling fan that is in operation while the batteries are being charged.

- Install your charger outside of the PIPER in a dry place, sheltered from water and sun, ventilated, unconfined, clean and dust-free
- Make sure that the fan is running during charging.

Failure to follow these instructions may result in serious personal injury and/or property damage.

BATTERY CHARGING AND MAINTENANCE

Charging the battery

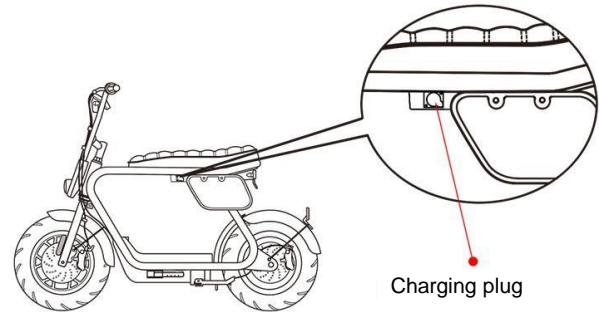
Failure to follow these instructions could result in serious personal injury and / or material damage.

The battery can be charged either without removing it from the battery compartment or by removing it from the battery compartment using its handle

Charging the battery in place

- Connect the battery charger to the 220 V mains socket.
- Connect the charger to the plug under the saddle.

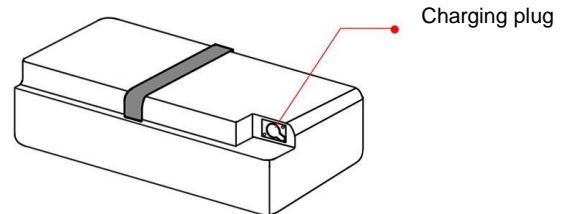
The light on the charger flashes and when the light turns steady green it indicates that the battery is fully charged.



Charging the battery removed from the PIPER

- Disconnect the plug on the battery.
- Remove the battery from the battery compartment.
- Connect the charger first to the battery socket and then to the 220 V mains socket.

The light on the charger flashes and when the light turns steady green, this indicates that the battery is fully charged.



RECOMMENDATIONS / PRECAUTIONS TO TAKE WITH THE BATTERY

- Avoid placing the battery near heat sources.
- Avoid any short-circuit on the charging and engine plug connections.
- Only use the battery for its intended purpose.
- Do not expose the battery to temperatures above 40°C and below -10°C.
- Never drop the battery; place it on a stable surface.
- NB: There is a risk of short circuit and overheating in the event of an impact for batteries with a particular fragility.
- Always ensure the compatibility of the charger with the local power grid.
- When charging is complete, it is recommended to disconnect the charger from the power grid.
- **When the PIPER is not in use, store the battery in a dry and cool place at a temperature above 10° C and below 40° C.**
- **Never leave your battery completely discharged for periods longer than 3 days, as this could damage it.**
- **If not used for a long time, the battery must be recharged once every two months.**
- Never leave the battery exposed to the sun for long periods.
- Never allow children to play with or handle the battery.
- Never charge the battery in the rain or in a damp place.
- Never open the battery. Opening the battery can cause serious risks of an electric shock and invalidates the warranty.
- Never spray the battery directly with water or any other liquid.
- Do not submerge the battery.
- Use only the supplied charger to recharge the battery. Any other charger not suitable for the battery could cause an accident.

ATTENTION !

IF THE BATTERY IS USED TOO FREQUENTLY (ONCE EVERY 2 MONTHS ONLY), ITS CAPACITY WILL DECREASE MUCH FASTER THAN IF IT IS USED REGULARLY. THE ENERGY OF A BATTERY COMES FROM A CHEMICAL REACTION, WHICH NEEDS TO BE ACTIVATED REGULARLY ENOUGH TO MAINTAIN ITS EFFICIENCY. IF THE BATTERY IS DISCHARGED, THE BATTERY MAY BE DEFECTIVE AND LOSE ITS WARRANTY.

RECOMMENDATIONS / PRECAUTIONS TO TAKE WITH THE BATTERY

ATTENTION !

YOU SHOULD NOT DISPOSE OF YOUR BATTERY OR CHARGER WITH YOUR HOUSEHOLD WASTE. A SELECTIVE COLLECTION SYSTEM FOR THIS TYPE OF PRODUCT IS SET UP BY MOST MUNICIPALITIES. YOU MUST CHECK WITH YOUR TOWN HALL TO FIND OUT HOW IT WORKS. ELECTRICAL AND ELECTRONIC PRODUCTS CONTAIN HAZARDOUS SUBSTANCES WHICH HAVE HARMFUL EFFECTS ON THE ENVIRONMENT OR HUMAN HEALTH AND MUST THEREFORE BE RECYCLED.

The battery is recyclable after use. Return it to your dealer.



MAINTENANCE AND CARE

Maintenance

The maintenance description has been determined in order to optimize the lifespan of your PIPER.

Cleaning and maintenance

Cleaning : Always use a sponge with clean water, without solvents, to clean the PIPER. Any abrasive material (sandpaper, etc.) is strictly forbidden. After cleaning, wipe your PIPE with a clean cloth.

Storage: Place the PIPER in a dry and clean place, sheltered from the sun and rain. After a long period of immobilization, fully recharge the battery before use.

Inspection

After the first 500 km or 30 days of use, the PIPER should be inspected and we suggest that every 5,000 km or every 6 months, a maintenance inspection should be carried out on the following points:

- Front and rear wheel axle.
- Inspect front fork and rear shock mounting
- Inspection of the rear engine mounting.
- Brake discs attachment.
- Front and rear brake caliper attachment.
- Front and rear brake pad wear.
- Attachment of rear-view mirrors.
- Chassis attachments.
- Seat hinge attachment.
- Top case rear support attachment (if option)

SCHEDULED MAINTENANCE TABLE

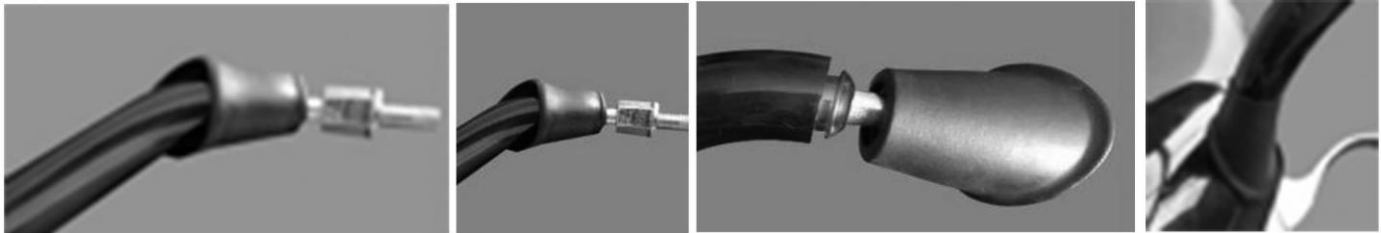
Items to be checked	Inspection
Brakes	Inspection of the operation of the front and rear brakes
Tyres	Inspect tyres for damage and check their pressure (tyre sidewall pressure).
Wheels	Inspect the rims, clean them to make sure they are not damaged..
Suspensions	Inspect suspensions, clean and lubricate them.
Control devices	Inspect the proper operation of the accelerator and all control buttons.
Various circuit systems	Inspect the front and rear lights, parking brake and dashboard for proper operation.
Fastners	Check that the screws, nuts and other fasteners are properly tight.
Battery	Inspect the battery casing and the connector that plugs into it.
Charger	Inspect the condition of the charger, cables and connectors and its proper functioning.
Lubrication	Check if the front and rear wheel axles, disc mountings and brake calipers need to be lubricated.
Cleaning	Clean the PIPER.



INSTALLATION OF REAR VIEW MIRRORS

Attaching the rear view mirrors

- Fold the rubber back on itself
- Turn the locknut on the mirror, making sure the screw is on the outside.
- Position the mirror with the hole in the handlebar seat, turn the mirror until it comes to a stop, then adjust the position by sitting on the PIPER so that you have a good rear view, then lock the position using a 14 mm open-end wrench.
- Unfold the rubber until it covers the base of the mirror. If necessary, turn the rubber until it fits the base of the rear-view mirror perfectly.
- Sit on the seat to adjust the mirrors according to your position.



TROUBLESHOOTING

PROBLEM ENCOUNTERED	REASON	SOLUTION
The PIPER is not powered, and the display is not on	1. The battery is not properly connected.	1. Replace the battery plug. 2. Check that the housing is well closed.
After turning on the PIPER, it does not start	1. The battery is discharged. 2. The stand has not been folded up. 3. The brakes have not returned to their initial state. 4. The key is incorrectly inserted. 5. The controller is not properly connected. 6. Faulty controller.	1. Charge the battery. 2. Check the side or central stand. 3. Check that the brake lever is released. 4. Remove and replace the key. 5. Reconnect the controller. 6. Replace controller.
Reduced speed or distance travelled reduced	1. The battery is discharged. 2. Deflated tyres. 3. Excessive overload of the scooter. 4. Brake problem. 5. The battery is in a poor condition.	1. Charge the battery. 2. Check the tyres pressure. 3. Reduce the weight transported. 4. Check the brake calipers and in particular the brake pads. 5. Replace the battery.
The battery socket does not charge	1. The charger plug has a bad contact. 2. Using the wrong charger. 3. The battery is out of order.	1. Check that the plug is in good condition. 2. Using the right charger. 3. Replace the battery.
The dashboard does not work	1. The PIPER is not switched on. 2. The battery is discharged. 3. Faulty dashboard.	1. Check that the battery is properly connected. 2. Charge the battery. 3. Contact the after-sales service.
The USB plug does not work	1. The USB plug is not connected properly. 2. The USB plug is damaged.	1. Check that the cable is properly connected. 2. Contact the after-sales service.



TECHNICAL CHARACTERISTICS

Approval	L1e
Battery	
Battery type :	Lithium-ion cells
Battery capacity :	48V/26Ah
Cell brand :	LG o Samsung
Battery weight (Kg):	9,4
Charging time (h) :	5
Engine	
Maker :	Bosch
Engine power (max.):	1200 W
Performances	
Maximum speed (Km/h):	45
Max. autonomy (Km):	55
Specifications	
Weight (Kg) (with battery):	65
Tyre dimension :	120/70-10
Brakes	Brake disc front / Brake disc rear
Front fork / Rear shock absorber	Oil / Oil
Dimensions (mm)	1383 x 643 x 1059
Maximum load (Kg)	150

MAINTENANCE PLAN

The maintenance of an electric scooter is relatively simple and is limited to safety checks. To prevent rust, keep it clean and dry. It is recommended not to leave the PIPER battery discharged for a long period of time. Here are the check to be carried out based on mileage:

1,000 km inspection

Carry out an overall check of the vehicle in order to verify that all the components are in good condition and that all the screws are properly tightened. Also check the safety devices (brake, pneumatic, brake fluid, light, indicator, etc.)

5,000 km inspection BATTERY and CHARGER

- Check the voltage and amperage using the dashboard information and a tester connected to the battery terminals .
- Check the status of the charger by checking the socket on the PIPER and on the charger.
- Check the status of the controller by running the engine idle.

BRAKING SYSTEM

- Visual check of the brake pads (a lining thinner than 1mm must be changed)
- Check the brake oil level.
- It is highly recommended that brake pads be changed between 5,000 and 10,000 km.
- Check the good condition and tightness of the brake caliper and brake disc bolts.

TIGHTENING

Check and tighten if necessary all screws and bolts and in particular the screws of the following elements:

- Steering screw
- Wheel axles
- Stands
- Switches
- Front fork / shock absorbers
- Wheel motor

TYRES

It is highly recommended to change the tyres every 10,000 km.

