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Prolog

Congratulations to your Kumpan electric 1953!
We wish you much fun and joy with your new Kumpan.

KUMPAN would like to thank you

We have written this manual to enable you to get the most out of it. Please read it carefully before riding your motorcycle for the first time. It contains information, advice and precautions regarding the use of your vehicle. You will discover features, details and devices which will reassure you that you have made the right choice. We believe that if you follow our suggestions you will soon find yourself in harmony with your new vehicle, and ride it fully satisfied for a long time.

The instructions contained in this booklet were written to provide simple and clear guide for use of the vehicle you will also find small maintenance operations and periodic checks you should have done at your **Autorized KUMPAN store or Dealer** as well as instructions for some simple repairs. Procedures not described in detail here require the use of special tools and / or specific technical knowledge: you are therefore advised to have them carried out at an **Autorized KUMPAN store or Service Center.**



Safety instructions

Important information:

When using this vehicle the following papers need to be with the vehicle or carried by the driver:

- **Identity card**
- **Driving license**
- **Insurance papers**
- **License Plate**

Warning:

Rules on the road vary from country to country and state to state. It is essential that you understand in advance the rules of the road of the country and state in which your vehicle will be used. The use of the vehicle may be restricted by provincial authorities to certain roads.

The scooter is designed to operate as a single seater. Riding with a passenger is not permitted!

This scooter has been Designed and produced for use on even and paved roads or surfaces only. Do not use the scooter on unpaved surfaces, in order to avoid overturning or other accidents.

Modification of any part of characteristic with the intent of increasing its power or performance is prohibited. Modifications of this type are illegal. There is also the risk of seriously damaging the scooter, and worse, such modifications can

make it unsafe, leading to possible falls or accidents, with serious or even fatal injuries. In addition, this type of modification results in the immediate and total voiding of the warranty. Please contact your Kumpan store or dealer to determine which accessories can be installed without impacting the performance and voiding the warranty.

Caution:

Caution: Modification of any part or characteristic with the intent of increasing its power or performance is prohibited. Modifications of this type are illegal. There is also the risk of seriously damaging the scooter, and worse, such modifications can make it unsafe, leading to possible falls or accidents, with serious or even fatal injuries. In addition, this type of modification results in the immediate and total voiding of the warranty. Please contact your Kumpan dealer to determine which accessories can be installed without impacting the performance and voiding the warranty.

The vehicle identification number of the scooter are:

- Vehicle Identification Number (see page 26)
- Engine number (see page 17)

Before every ride the scooter should be checked about its road safety. This test includes:

- Function of the brake
- Correct tire pressure
- Function of all signal and lighting systems
- General functional condition

To increase the output of motor or controller is punishable by law. You endanger your own safety, as well as the operational safety of the vehicle. The lifetime of your vehicle will be reduced. In addition, the insurance coverage, EC-Certificate of Conformity (COC), as well as the warranty expire.

Use extra care during bad weather rides (fog, Snow, ice). Always drive with caution appropriate to the weather conditions and road conditions. After long rides in rain and after washing the vehicle, water may delay the reaction of the brake system.



Therefore, please regularly use the brake system gently during rides in rainy conditions.

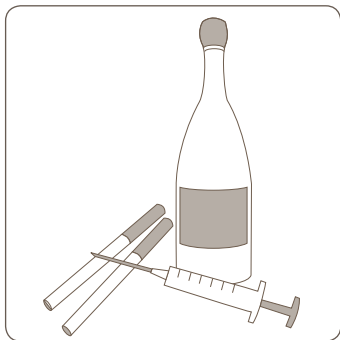
After washing the vehicle please use the brakes „dry braking“ before starting your ride.

Warning:

In freezing temperatures please test all functions of your brake system before using your vehicle.

Safety instructions

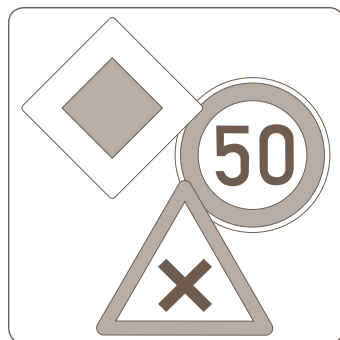
Basic safety rules:



The risk of accidents significantly increases when taking drugs or alcohol. If your physical and mental health is affected, don't use the vehicle. Please also don't use the vehicle when feeling fatigue or restlessness.



Most accidents are caused by the inexperience of the driver. Always make sure that the driver is capable and has the knowledge to drive your vehicle.

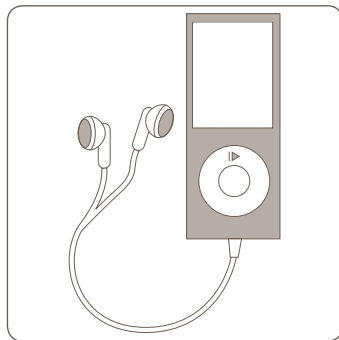


Always follow the national and local traffic regulations. Avoid sudden changes of direction with your vehicle or Any actions that could endanger your own safety Or the safety of other road users.



Always avoid driving against obstacles that could damage the vehicle or make it unstable.

Do not drive too close behind preceding vehicles and respect the right distance to allow safe braking.



Always keep both hands on the handlebar and both feet on the footboard. Ensure a correct driving posture and never stand up during driving. Always remain focused and controlled when driving your vehicle. Don't distract yourself during driving. (no smoking, no eating, no drinking, etc.).

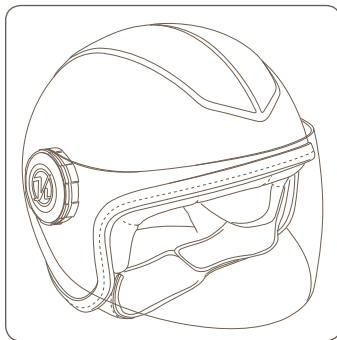
In case of an accident, fall or impact of the vehicle, make sure that all controls, the braking system and all main parts are fully functional. If any component was affected bring you vehicle to a Kumpan electric Service station for repair and check up. Please inform the Kumpan electric service station what happened to help identify any fault. Never continue to drive, if you recognize a fault on you vehicle.

Safety instructions

Basic safety rules:

Never change the position, the inclination or color of the following parts: license plate, turn indicators, lights or horn. Any of these changes void the warranty, the insurance coverage and the driving allowance on streets.

Any changes that are performed on the vehicle, including the removal of original parts, can affect the performance of the vehicle and also compromise the safety or make it illegal. Always respect all local and national regulations regarding the vehicle equipment. Avoid changes that increase the vehicle performance or change the original characteristics of the vehicle. Avoid off-road driving.



Protective clothing:

For your safety, we strongly recommend that you always wear and approved motorcycle helmet, eye protection, boots, gloves, long pants, and a long-sleeved shirt or jacket whenever you ride. Although complete protection is not possible, wearing proper gear can reduce the chance of injury. See your Kumpan dealer for stylish comfortable and effective riding gear suggestions.

Helmet and eye protection:

Your helmet is your most important piece of riding gear because it offers the best protection against head injuries. A helmet should fit your head comfortably and securely. A bright-colored helmet can make you more noticeable in traffic, as can reflective strips. An open-face helmet offers some protection, but a full-face helmet offers more. Always remember to properly fasten your crash helmet. Regardless of the style, look for a DOT (Department Of Transportation) sticker in any helmet you buy (USA only) and always wear a face shield or goggles to protect your eyes and help your vision.

Additional riding gear:

In addition to a helmet and eye protection, we also recommend:

- 1) Boots worn correctly with an anti-slip sole to protect your feet and calves
- 2) Leather gloves to keep your hands warm and help prevent blisters, cuts, burns and scraped skin
- 3) A motorscooter riding suit or jacket to comfort as well as protection

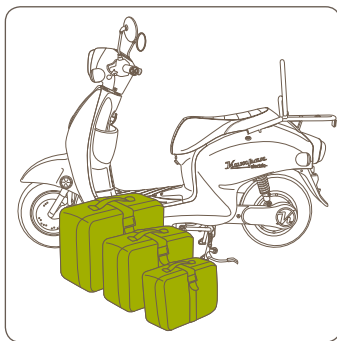
Bright-colored and reflective clothing can help make you more noticeable in traffic. Be sure to avoid loose clothes that could get caught on any part of your motorscooter.

ACCESSORIES:

The vehicle owner is personally liable for the selection and installation of accessories. Be extra careful when installing accessories that they don't affect the functionality of any other part of the vehicle.

It is important to not use any accessories that affect the controls because this may extend your reaction time in an emergency.

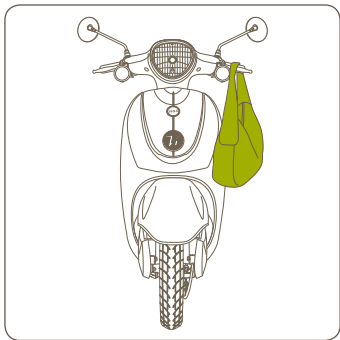
Make sure that the equipment is well fastened to the vehicle to prevent dangerous situations while driving. Never use electrical devices that may influence the Power output of your vehicle. There is a risk that the vehicle suddenly stops or that there is a power outage and the horn, turn signals and lights can not operate properly. Kumpan electric recommends to use only original accessories.

**CHARGE:**

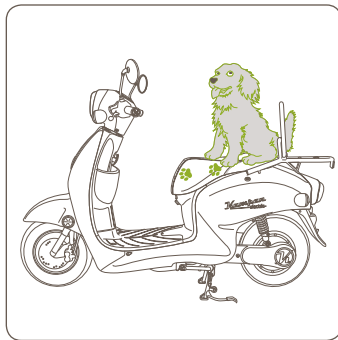
Always load the vehicle very carefully and respect the total allowed weight. Make sure to store the luggage as close as possible to the center of gravity of the vehicle and keep an even weight distribution. Check that the load is firmly secured. All load has to be constantly observed, especially during long trips.

Safety instructions

Basic safety rules:



Never place bulky, heavy or dangerous objects on the handlebars, the mudguard or the forks. Otherwise there is a risk that the vehicle responds more slowly in curves and the overall stability is impaired. Don't fix large load to the sides of the vehicle, to avoid hitting people or obstacles.



Only transport luggage that is fixed firm and secure to the vehicle. Avoid to carry bags which overlap the luggage rack or cover the lights, the turn signals or the horn. A transportation of children or animals on the luggage rack is prohibited!



Excessive weight can affect the stability and the maneuverability of the vehicle.

Check before departure

Please check the following list about function and safety before using the vehicle. Very little time is needed to check all these points, but they help to avoid vehicle damage or even physical injury.

Checkpoint:	To check:
Front disc brake (see page 63)	<ul style="list-style-type: none"> • the function • the return stroke of the brake lever • the brake fluid level • the brake hose for possible damage
Rear disc brake (see page 63)	<ul style="list-style-type: none"> • the function • the return stroke of the brake lever • the brake fluid level • the brake hose for possible damage
Throttle (see page 34)	<ul style="list-style-type: none"> • for smooth operation • if the throttle is functional to open and close in all steering positions
Wheels / tires (see page 71)	<ul style="list-style-type: none"> • the tire condition (wear, damage) • the tire pressure
Steering	<ul style="list-style-type: none"> • if the steering is functional and rotating smoothly
Rear view mirrors (see page 32)	<ul style="list-style-type: none"> • check for correct alignment
main stand (see page 47)	<ul style="list-style-type: none"> • for smooth operation • on complete folding
fixing elements	<ul style="list-style-type: none"> • tightness
Batteries (see page 28)	<ul style="list-style-type: none"> • level of battery, status of charge (display)

Safety instructions

Basic safety rules:



First steps:

Before the first use of the vehicle, please read the following steps:

Mount the rear-view mirrors (see page 32).

Make sure that the power switch of the scooter is in the „ON“ position (see page 65).

Make sure that the vehicle batteries are fully charged. If this is not the case, fully charge the batteries with the charger before using the vehicle (see page 28).

Check the tire pressure:

- Front: 2.5 bar
- Rear: 2.8 bar

CAUTION

**Tire pressure should be checked when the tires are cold . Incorrect tire pressure causes abnormal tire wear and makes driving dangerous
Tires must be replaced when the tread reaches the wear limits set forth by law.**

Check the vehicle lights before each ride. The vehicle can only be started if the sidestand is completely folded.

Drive only with adequate protective clothing. NOTE:

Depending on province and country law, the driver is obliged to wear a helmet! Kumpan electric strongly recommends to always wear a helmet and appropriate protective clothing!

Respect the service intervals (see page 74).

These service intervals are important in order to ensure a safe ride. Respected service intervals are a prerequisite to obtain the warranty.

The owner of the vehicle is responsible for the insurance coverage of vehicle and driver. The use of the vehicle may be restricted by provincial authorities to certain roads.

Start the vehicle by turning the key in the ignition to the “ON” position. (see page 34).

HOT COMPONENTS WARNING:

Warning: the engine and all parts of the exhaust system, as well as the braking system, become very hot and remain hot for some time after the motorcycle and the engine are stopped. Before handling any component of your motorcycle after riding, ensure that is cooled sufficiently to be safe to handle

REAR WHEEL

Warning: be very careful to keep your fingers, all other body parts, and any objects away from the rear wheel while the engine is running and the vehicle is resting on its stand. Failure to observe this warning can lead to serious personal injury, as well as damage to your engine.

SHOCK-ABSORBERS

Warning: Do not disassemble the front and rear shock-absorber . The shock-absorbers have preloaded springs. Disassembly can cause serious injury and even death.

BRAKE FLUID

Warning: Brake fluid is extremely poisonous. Never allow brake fluid to be ingested or swallowed. Should brake fluid accidentally be swallowed , drink large quantities of milk or pure water and immediately seek professional medical assistance.

Brake fluid is highly destructive to skin and eye tissue. Should you accidentally spill brake fluid on yourself, remove the contaminated clothing, wash your body with soap and warm water immediately and seek professional medical assistance. Should you accidentally splash brake fluid into your eyes, flush with a large quantity of cool clear water and immediately seek professional medical assistance. Keep brake fluid away from children.

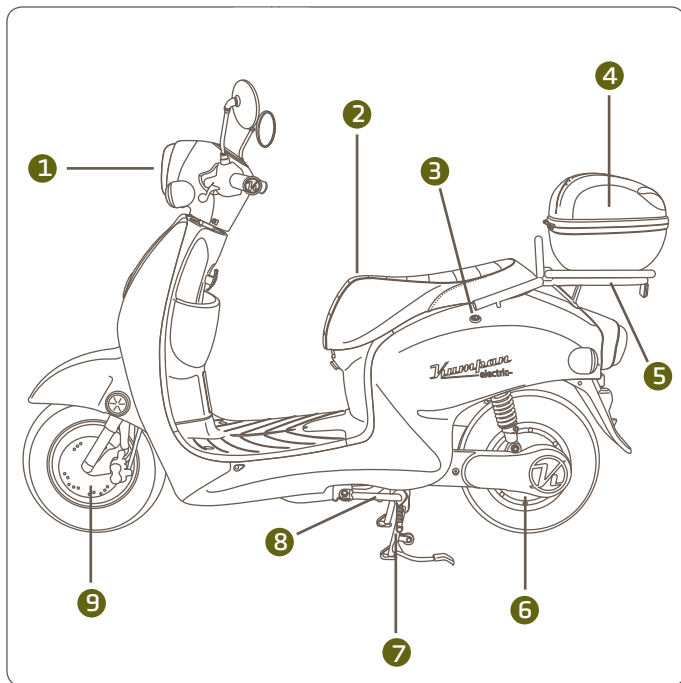
BATTERY HYDROGEN GAS AND ELECTROLYTE

Warning: Vehicle batteries give off noxious and explosive gases: keep cigarettes, flames and sparks away from the battery. Provide adequate ventilation when operating or recharging the battery. During recharging or use, make sure that the room is properly ventilated and avoid inhaling the gases released during the recharging.

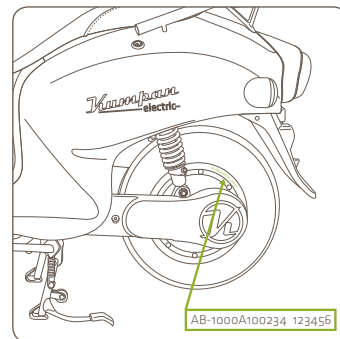
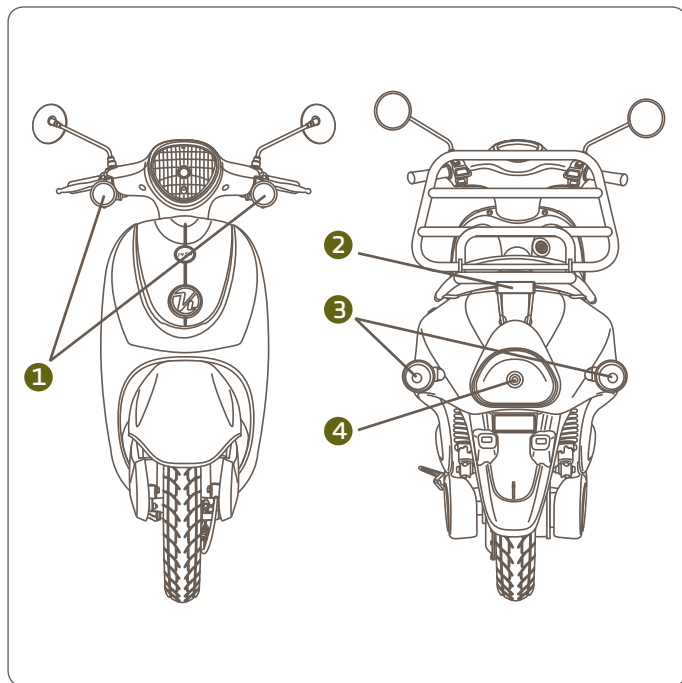
The battery contains sulfuric acid (electrolyte). Contact with the skin or eyes may cause serious burns. Always wear protective clothing, rubber gloves , and tight fitting goggles or a face shield when working around the battery, especially when filling the battery with either water or electrolite. In case of contact with the skin, flush immediately with plenty of water. In case of contact with the eyes, flush with plenty of water for at least 15 minutes. Immediately consult a health professional. The electrolyte is poisonous. If the electrolyte is accidentally swallowed, drink large quantities of water or milk and then follow with magnesia, beaten eggs or vegetable oil. Immediately consult a health professional. Keep away from children.

The KUMPAN 1953

Overview:



1. Headlights
2. Seat
3. Seat lock
4. Topcase
5. Rear rack
6. hub motor rear axle
7. Main stand
8. Sidestand
9. Disc brakes front

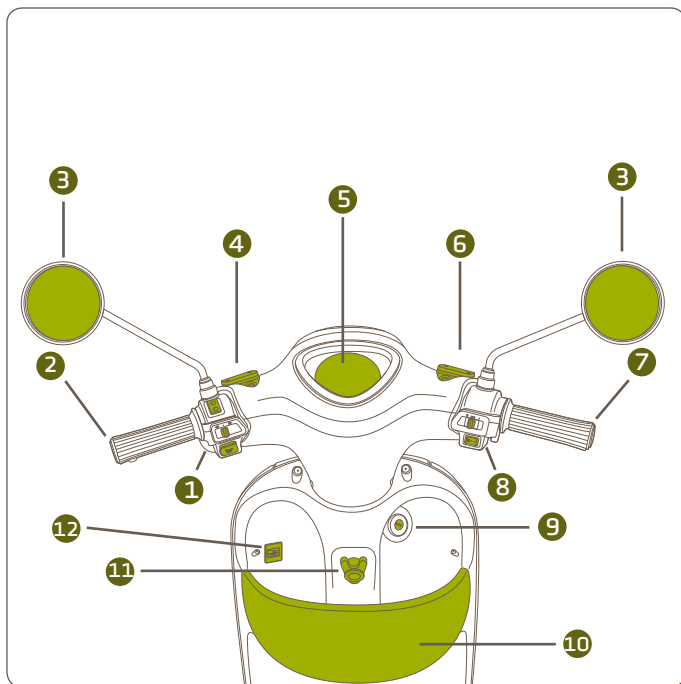


Serial number

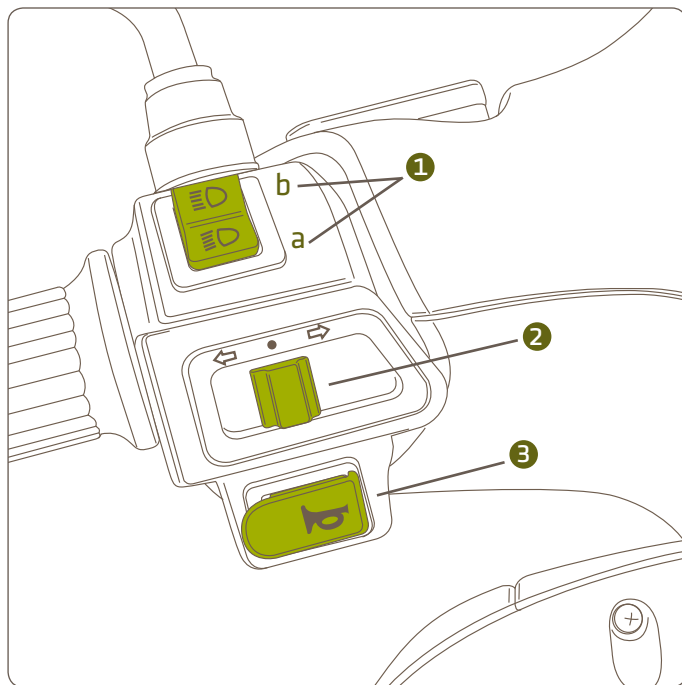
1. Front turn signals
2. Reflector
3. Rear turn signals
4. Back and brake light

The KUMPAN 1953

Location of controls and display:



1. Electrical controls left (see p.19)
2. Rear brake Lever
3. Rearview mirror (see page 32)
4. Brake fluid indicator for rear brake (see page 62)
5. Display unit (see page 21)
6. Brake fluid indicator for front brake (see page 62)
7. Front brake lever
8. Electrical controls right (see page 20)
9. Ignition / Steering lock (see page 34)
10. Glove compartment (see page 25)
11. Bag hook (see page 25)
12. USB mobile charging socket (see page 25)



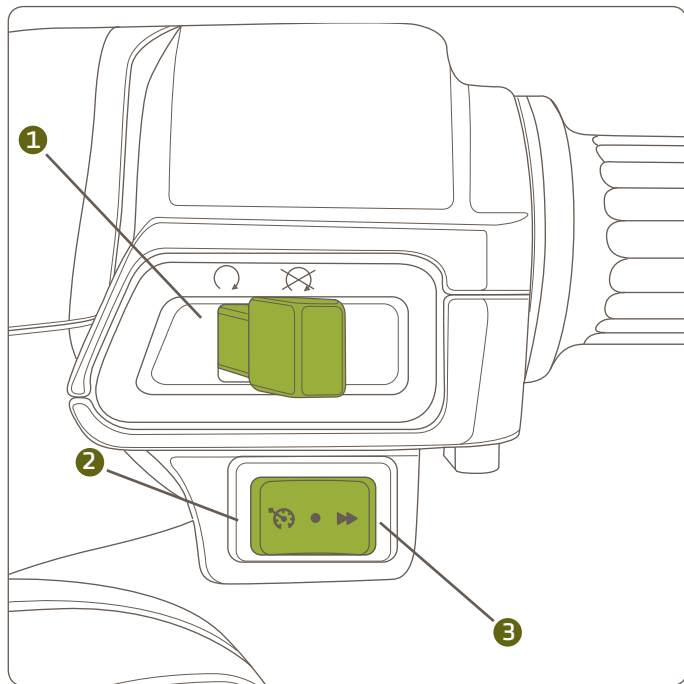
1. • a. Dimmed headlights
• b. High beams

2. Turn signal switch left/right
(press at center to turn off)

3. Horn

The KUMPAN 1953

Electrical controls right:

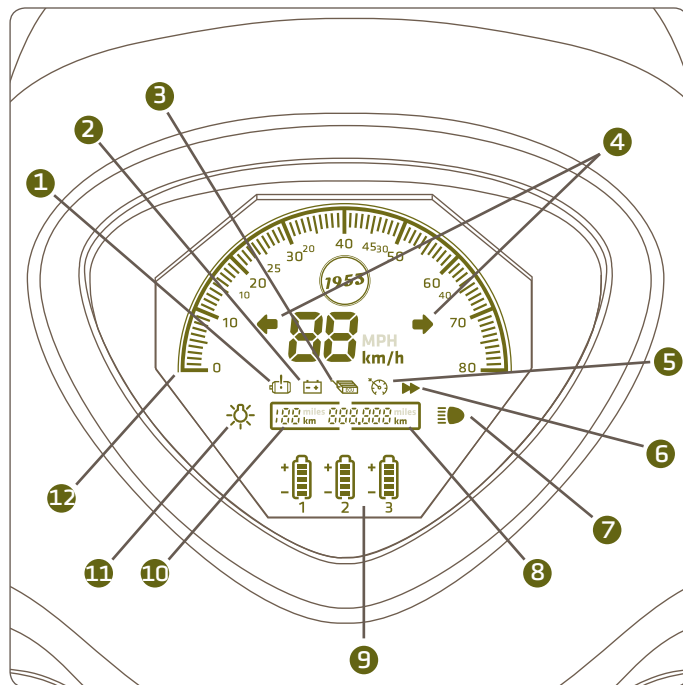


1. Emergency engine off switch

2. Cruise control switch (see page 44)

3. Boost switch (see page 42)

Display unit:



1. Malfunction Indicator Lamp
2. Warning light battery
3. Warning light controller
4. Turn signal indicator
5. Cruise control indicator
6. Boost indicator
7. Main beam indicator
8. Odometer
9. Battery indicator (see page 22)
10. Daily kilometer
11. light indicator
12. Tachometer

The KUMPAN 1953

Display unit:

DIGITAL COCKPIT WITH SPECIAL FUNCTIONS:

The KUMPAN 1953 is equipped with a digital multifunction display.

The main functions:

- Speed: Indicated as a graph and with large numbers in km/h. (Convertible into Miles)
- Light: Appears as a green icon
- High beam: round blue icon symbol
- Left indicator right: green arrow icon
- Trip odometer: Digital display of distance traveled during a trip. Can manually be set to zero when pressing the button in the battery storage compartment under the seat.
- Odometer: Continuous odometer (adjustable to Miles)

Special display indicators:
the display has three red warning symbols. Should your Kumpen have unexpected technical difficulties he indicates which component has a fault:

1. Engine: This symbol lights up when the engine is too hot, or a cable is defect in the engine.
2. Battery: This icon will light up when the battery voltage is too high, or too low.
3. Controller: If this symbol lights, the control unit is malfunctioning, or a cable connection between the motor and control unit is defective. In any case, you should schedule an inspection with your KUMPAN store or dealer to solve the problem.

Blue display indicators:

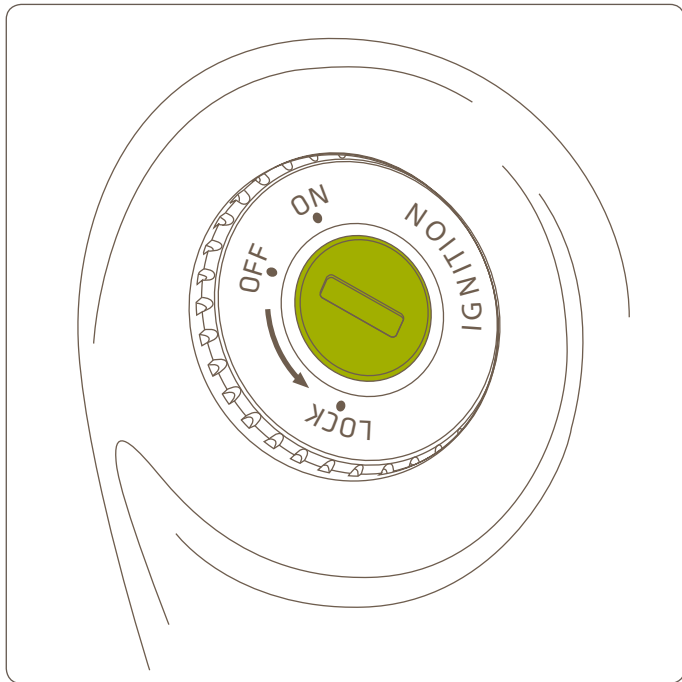
- Cruise control:
This indicates that your KUMPAN is running in cruise control.
- Boost mode:
This confirms that your KUMPAN activated the Boost function to enable more acceleration of the motor.
- Triple battery status display:
This display informs the driver while driving about the charging status of the LiFePo4 battery packs used.

Each display provides information on the remaining capacity of each separate battery. If no battery is connected on the corresponding cable under the seat or the connected battery is completely empty, the display icon stays dark. Once the icon is lit, a functioning battery is connected. The icon bars provide information about the capacity. Once the capacity of the battery reaches the end, the last red bar flashes.

Your KUMPAN scooter is constantly trying to empty the available batteries equally. Therefore, the most powerful battery will always be discharged prior to the possibly weaker batteries. This is also noticeable in the display. During driving of the scooter and usage of the battery different capacity levels seem almost equal. Once the battery is not discharged for a short moment the existing capacity levels become visible again.

The KUMPAN 1953

Ignition switch and steering lock:



OFF – The whole circuit is interrupted. Motor and light can not be turned on. The key can be removed.

ON – The electric motor is started and on. The lights are switched on automatically and the key can not be removed.

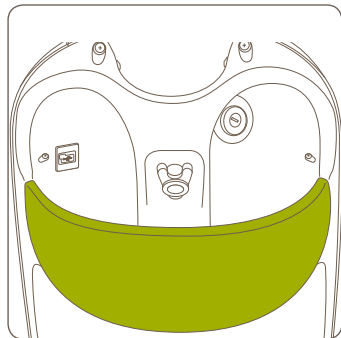
LOCK – to activate the steering lock, turn the key in the LOCK position and rotate the handlebar completely to the left or right. Afterwards swivel the handlebar slightly until it clicks. Remove the key.

WARNING:

Do not turn the key to the “Lock” or “Off” position while riding.

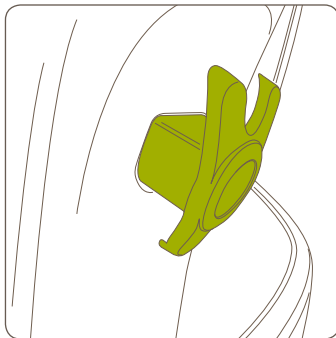
We recommend keeping the duplicate key together with its code in a safe place and not on the scooter

Glove compartment:



Every KUMPAN has an glove compartment in the middle part under the handlebar.

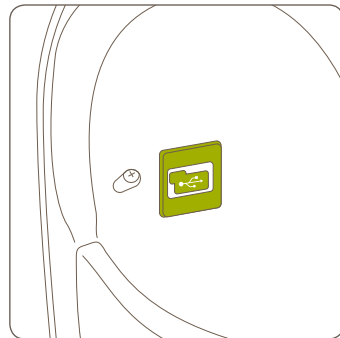
Bag hook:



The bag hook is located above the glove compartment under the handlebar.

Warning:
The hook can carry a maximum of 1.5kg. Never place too big bags on the hook, as this may affect your legroom and stability during driving.

USB charging socket:

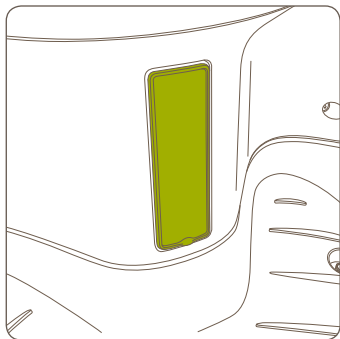


You will find the USB charging socket on the left side above the glove compartment.

This socket enables charging your cell phone as soon as the key is turned into the "ON" position.

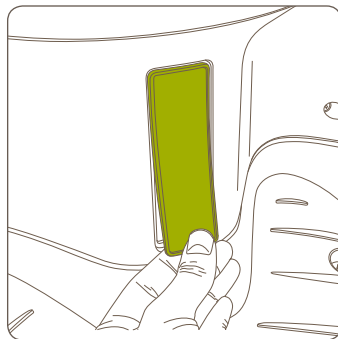
The KUMPAN 1953

Vehicle identification number:



The vehicle identification number is located in the glove box under a panel.

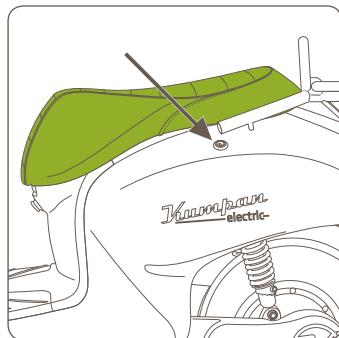
NOTE: To view the number, lift the panel gently with a screwdriver or your fingers as shown in the pictures above.



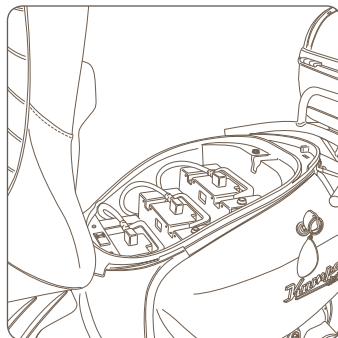
CAUTION:

Remember that alteration of the vehicle identification number can lead the serious penal sanctions (impounding of the vehicle etc.)

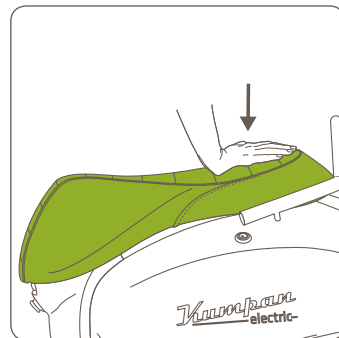
Seat lock and storage compartment



Place the ignition key in the seat lock and turn it to the right. The bench can be opened now.



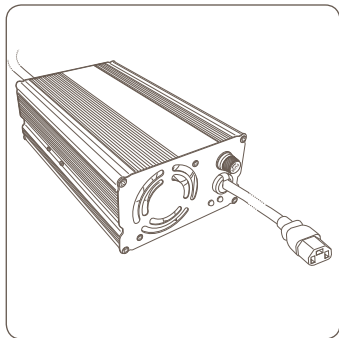
Underneath the seat you find the slots for up to 3 KUMPAN battery packs, as well as some storage space.



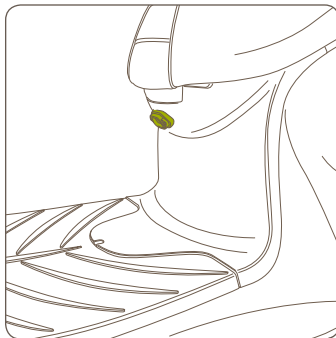
NOTE: To close the seat, press it back into the starting position until the seat locks into place.

Operation / Driving

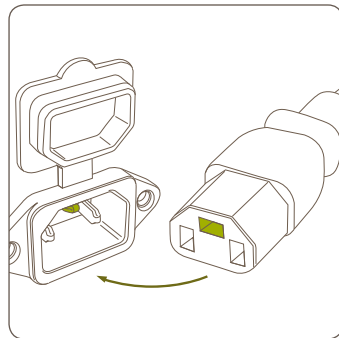
charging the batteries in the vehicle



Your scooter was delivered with a battery charger. This Battery Charger can be used with any conventional 110-volt household outlet.

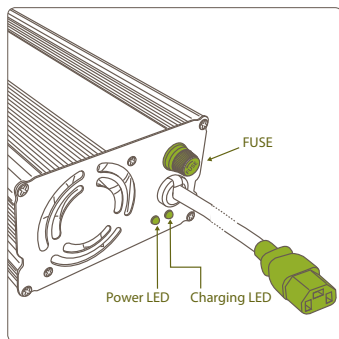


Outside and on the front part under the seat, you find the charging socket for charging all batteries directly on the scooter. Place the waterproof charging system connector into the outside charging socket. Then put the 110 Volt connection in the socket.



Do you want to individually charge the batteries at home or on the road, put the waterproof charging system connector directly into the charging socket of each battery. Then put the 110 Volt connection in the socket.

Charging status indicator



The charger has two LEDs:

- Power LED: Lights up when the charger is connected to a power supply
- Charger LED: shows the current charge status.

When the Charger LED is red, the charging starts. When a charging status of more than 95% is reached, the Charger LED lights up green. Until reaching 100% battery capacity is battery will

only be charged in short cycles to increase the longevity of the batteries.

Upon completion of charging, the charger LED lights green. The charger monitors the battery voltage and if necessary renews the charging impulse to keep the battery fully charged. Your Scooter is ready to drive.

Remove the charger.
Have a safe journey.

The charger is protected with a 10A / 250V fuse, which can be changed without tools, by unscrewing the fuse holder.

NOTE: Make sure the ignition and the main switch are turned off (see page 65). Only then plug the power cord into a 110-volt outlet.

Charge the batteries completely before first use - this can take up to 6 hours for the first charging process!

Always connect first the charger to the scooter, or the battery, only afterwards with the socket!

The batteries should not be charged at temperatures below 0° C. During Winter it is recommended to recharge the batteries inside the house.

Operation / Driving

Charging the Batteries

HINTS to charge the batteries:

Charge the battery after every ride (when driving over 3km). The smaller the depth of discharge, the higher is the lifetime of the battery.

If possible, charge the battery when you stop during your rides. (for example charge the battery at work) It is better to charge the battery 2 times after a 10 km drive than one time after a 20km drive.

The batteries need a few loads in order to reach their full capacity (when starting to use a new battery, you should any long "maximum range" testing drives).

A total and "deep" discharge (complete "emptying" of the battery) may cause damage to the battery.

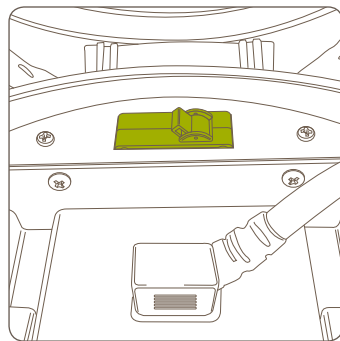
IMPORTANT:

Damage to the battery due to total or "deep" discharging or handling faults will void the warranty.

If storing the scooter for a longer time (more than 3 months, for example over Winter), the batteries must be disconnected from the circuit of the scooter to prevent total or "deep" discharge.

To separate the battery from the scooter circuit simply remove the connection plug from each battery in the storage area under the seat.

During longer periods (more than 3 months, for example over Winter) the batteries automatically get discharged by itself through internal chemical processes. Therefore, the scooter should always be fully charged and the main switch should be turned off. After 2 to 3 months, the batteries should be charged to avoid a total or "deep" discharge.



Safety instructions

Only use original KUMPAN batteries and original KUMPAN battery cables.

Charge the battery only with the original KUMPAN battery charger. When charging the batteries in the vehicle, the main switch of the scooter has to be in the "ON" position.

Be careful when charging the batteries about:

- the correct connection of the charger with the battery or scooter directly
- adequate ventilation
- dry environment

Never open a battery yourself or make repairs to a charger or battery.

Make regular visual inspections of the connector and the charger. Replace these parts if damaged. Never bring the charger and power cables in contact with water.

Do not touch them with wet hands. The scooter must be turned off when the power cable is plugged into the socket (remove the ignition key).

Never use the charger if the power cables is damaged or you see a visible defect due to damage by sharp edges, heat or that the cables were squeezed.

Only connect the charger to an extension cord if this extension cord is suitable for performance and protection class of the charger.

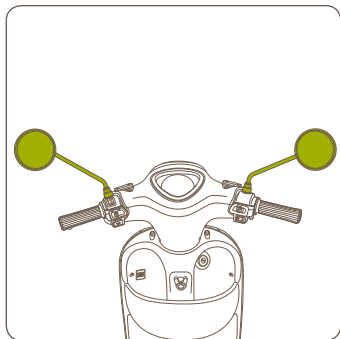
Unplug this:

- if a fault occurs during operation
- After use, or
- Before cleaning

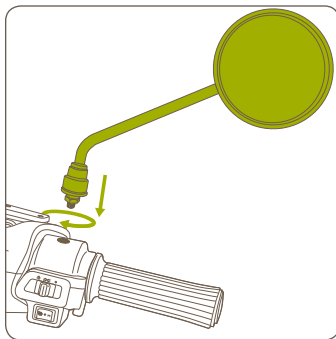
Always pull the power plug, not the power cable to remove the plug from the socket.

Operation / Driving

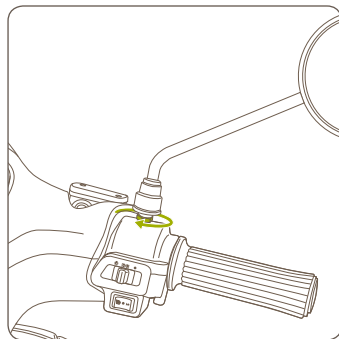
Mirrors (Installation and Adjustments)



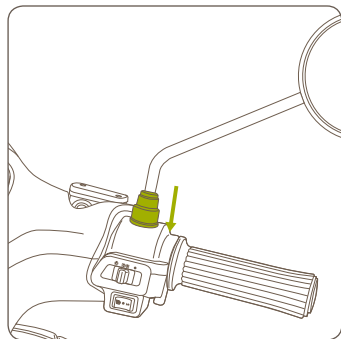
Adjust before every trip the rearview mirrors. The mirror has to be aligned in a 90 degree angle to the driving direction of the vehicle. Both rearview mirrors have a right-hand thread.



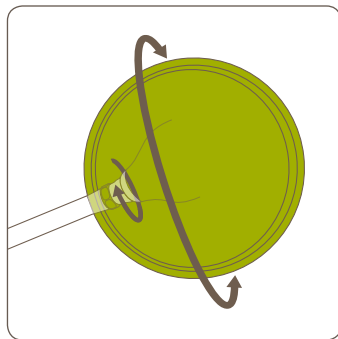
Place the appropriate mirror for the right and left side of the scooter in the opening provided. If necessary, slide the protective cap upwards.



Turn the mirror about 5 to 6 turns clockwise in the thread and align it. Seen from above, the mirror should always be aligned parallel to the handlebar.



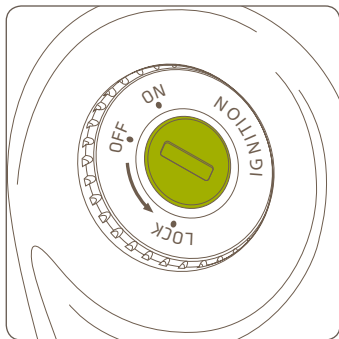
Then lock the nut with a 14mm wrench (clockwise) to lock the mirror. Seat yourself on in the driver's position, to find the optimal mirror adjustment. Slide the cap back down.



To align the mirror glass, release the upper lock with a 17 mm wrench. Place the mirror so that you can see what is happening behind you from the driver's position. Now lock the upper nut again.

Operation / Driving

Starting the engine



Starting the engine

Make sure that the main switch is in the „ON“ position (see page 60).

Check whether the throttle is in the zero position.

Put the ignition key into the ignition.
Open the steering lock if necessary.

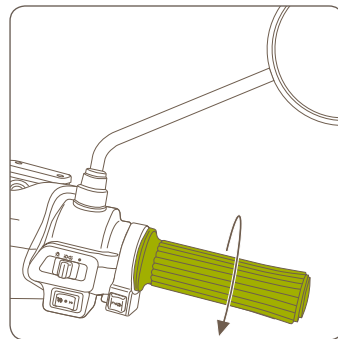
Pull the rear brake lever.

Turn the key to the “ON” position.

Note the charge indicator. After one second, the battery level indicators light up.

Now your KUMPAN is ready.

Acceleration



Side and center stand must be folded up before starting to drive.

Pull the throttle grip slowly, and release the rear brake lever.

Once the vehicle starts to move forward place the feet on the footboard.

Safe driving

Below are a few simple tips that will make your daily use of the vehicle safer and more secure. Your mechanical knowledge and ability are the foundation for safe driving. For this reason, try out the vehicle somewhere without traffic until you have gained a good familiarity of the vehicle itself.

1. Before starting to ride, remember to put on your helmet and fasten it correctly
2. Slow down and drive carefully over bumpy roads.
3. After driving over a long stretch of wet road without using the brakes, braking will not be as efficient the first time/s you use them again. When driving under conditions like this, you should brake periodically.

4. Do not brake hard on wet , unmade or otherwise slippery road surfaces.

5. Do not start off by getting on the vehicle while it is standing on its stand. In any case, the rear wheel should not be turning when it comes into contact with the ground, in order to avoid abrupt departures.

6. If you are using the vehicle on roads covered with sand, mud, snow mixed with salt etc you should frequently clean the disc brake with a non-aggressive cleaning compound so as to avoid the formation of abrasive agglomerates inside the slots with consequent premature of the brake pads.

CAUTION:
Always drive within the limits of your abilities. Driving while intoxicated or under the effect of drugs or certain medicines is extremely dangerous

CAUTION:

Any modification that changes the scooter's performance, such as tampering with original structural parts is strictly forbidden by law, and renders the scooter non-conforming to the approved type and dangerous for driving safety.

WARNING:

To avoid possible accidents use the maximum prudence when adding accessories or baggage and when driving with them. Adding accessories or baggage can reduce the stability and performance of the vehicle, as well as decreasing safety levels during use. (see the section spare parts and accessories).

CAUTION:

Do not adjust the mirrors while driving. This could cause you to lose control of the vehicle.

Operation / Driving

Basic safety rules

The following instructions refer to normal use of the scooter and should be followed with care. Observing these rules will allow you to increase your level of safety and that of those around you, as well as increasing the life and usefulness of your vehicle. Obviously two-wheeled vehicles do not offer any of the protection normally given by an automobile. For this reason, it is fundamental to wear the appropriate protective clothing. In particular, while riding your vehicle, you should always wear a helmet, gloves, protective glasses, along with a heavy jacket, sturdy shoes, and long hard-wearing pants. In any case, you should always bear in mind that even the best clothing and helmet cannot protect you in case of a fall or collision with other vehicle. Protective clothing will protect you from scratches and abrasions, but their protective ability is minimal in the case of impact. Make sure you have all the requirements under local law,

including driver's license, minimum age, adequate preparation, insurance, taxes, registration, license plate, etc. As soon as you receive your vehicle, familiarize yourself with it, practicing in an area with minimal traffic. Avoid riding your vehicle in areas with high levels of traffic until you have obtained an optimum level of experience and are completely sure of your riding skills. In most countries it is illegal to drive on highways with a scooter of these dimensions. Before entering these types of roads make sure that it is legal to ride on them. New scooters need to go through a careful run-in procedure. See the associated section **RUNNING IN**. Before starting the engine, make sure that the brakes, transmission and throttle control function properly and that the fuel and oil supply is adequate. The exhaust system, brakes

and other components can become hot while riding. Do not touch these components. Taking some medicines or drugs, either under a doctor's prescription or illegality, as well as drinking alcohol, increases the risk of an accident notably. Do not ride under the effect of alcohol or medicine, whether they are illegal or prescribed by a doctor. Make sure that your physical condition is appropriate before you begin to ride your vehicle. Do not ride if you are particularly fatigued or tired. Alcohol, medicine and tiredness are the principal causes of accidents. Many accidents are due to the rider's inexperience. Do not ride your vehicle before you have attended training held by a recognized organization such as the Motorcycle Safety Foundation. Always remember that riding a two-wheeled vehicle, while easy and fun, is very different from driving a car. Expert automobile drivers are not necessarily capable of safely riding a scooter.

Never lend you vehiule to other people If you are not sure that they are experts and have a driver's license. If the throttle grip becomes blocked while open, there is a risk of collisions with other vehicles or falls. If the throttle grip is blocked, turn off the engine with the engine stop button located on the right handle. Do not attempt to restart the engine untill the throttle grip has been repaired and is completely functional. Not observing these warnings, may lead a fall resulting in serious injury and even death.

CAUTION:

Warning: in case of emmergency always use the engine stop switch located on the right hand side of the handlebar. In order to avoid serious accidents with fatal consequences, do not use the scooter if the throttle grip does not automatically return to idle speed. Contact your authorized service center who will provide for the necessary repairs.

It is very important for you safety that you always ride with the utmost attention. Pay attention to your actions, do not allow yourself to be distracted by other cars, people or things near the street,etc, while riding your scooter. If it becomes necessary to examine a road map, pull overan do so safety. Only use the fuel and lubricants specified for your scooter type,found in the section RECOMMENDED PRODUCTS; check the level of coolant, fuel and oil regularly.

If you are involved in an accident with your vehicle, make sure that the command levers, tubes, wires, braking system and other vital components, were not damaged. If your vehicle is involved in an accident, immediately contact your local service center which has the tools and knowledge necessary to assess any damages that may have been sustained which could compromise your safety. Your dealer is able to resolve all safety problems, on the condition

that you tell them about all mechanical malfunctions. Do not use the scooter if it is damaged. A damaged scooter could lose stability or have other problems wich increase the risk of accidents, along with serious or even fatal injury.

Do not attempt to modify the position, angle or color of your license plate.The license plate should not be covered in any way , not even with transparent plastic. Do not modify your vehicle's safety systems, in particular components associated with the turn signals, rearview mirrors, the lights and the horns. Any modification to the vehiule renders the warranty null and void. Do not modify the engine in order to increase its power. This could lead to irreparable damage to the engine, compromising its performance and manageability of the vehicle,leading to a fall, serious injuries, and even death. For vehicle repairs, use only original kumpan spare parts and accessories.

Operation / Driving

Basic safety rules

The use of aftermarket accessories and spare parts can seriously compromise the safety of your scooter and impact its performance, stability, and use. All modifications that impact the performance and safety of the vehicle render the warranty null and void. For the above reasons, tampering with the emission and noise control systems is prohibited by law and can be penalized by extremely high fines. In some countries / states, the use of the helmet is obligatory under the law, and in all countries the vehicle must be correctly registered (with a current license plate). In many countries, a special driver's license is required for motorcycles, and it is illegal to drive a scooter without one. This scooter was not designed to have a sidecar or to pull trailers, other scooters, motorcycles or bicycles.

Kumpan does not produce sidecars or trailers, and for this reason is not able to predict the consequences that these accessories could have on the stability and maneuverability of your vehicle: in any case you are advised that these may have a negative effect on your vehicle, and the warranty will not be recognized for any damages the vehicle or its components may sustain due to a use of this type of accessory.

Never use your scooter to race against other vehicles. When braking use both the front and rear brake. In the case of abrupt braking, the use of only one brake could cause your vehicle to slide or cause you to lose control of the vehicle. Always travel at a safe speed and avoid useless sharp acceleration. In this way you can decrease fuel consumption and at the same time increase the life of your scooter. When you ride your vehicle on wet or slippery roads, always remember that your traction

is notably diminished. In these conditions always maneuver your vehicle with the maximum caution and care. Sudden acceleration, brakes or turns could cause you to lose control of your vehicle. When the traction of the riding surface is reduced, accelerate gradually. To decrease speed, release the throttle grip, and instead of suddenly braking, downshift where possible. Avoid braking suddenly and / or too quickly. In order to avoid sliding of the rear wheel, gradually open and close the throttle grip. Slow down and drive with caution on irregular road surfaces. Avoid accelerating with the throttle completely open, unless unavoidable for passing. Remember that turning too aggressively can cause the side of the tires to lose contact with the ground, leading to a fall, serious injury, and even death.

Always respect the speed limits imposed by the law, taking into account that depending on road conditions. It is not always possible to maintain the speed indicated. Slowing down slightly greatly increases your safety under all road conditions. Do not ride your motorscooter off road. Do not tamper with the exhaust or emissions control system, not only because it could harm the environment, but also because you could risk penal sanctions.

Clothing

Before your motorscooter, ensure that your riding gear is in a good condition. Wear your helmet correctly, making sure that the visor of your protective goggles are clean. Studies and experience demonstrate that other drivers frequently do not see motorcycles. To render yourself more visible to these drivers, wear reflective clothing such as reflective jackets,

more visible to these drivers, wear reflective clothing such as reflective jackets, or other types of clothing with reflective areas sewn on the jacket, pants and gloves. Pay particular attention to trucks and automobiles arriving from the other side of the road, as they could suddenly turn right or left in front of you. Many accidents are caused by a driver on the other side of the road who turns left without advising the vehicle in front. Inevitably the driver seems to look you right in the eyes, and then swears to not have seen you at the moment when he /she cuts you off. Stay alert ! Wear protective clothing, choosing bright and/ or reflective colors. This will make you easily seen by other road users thus reducing the risk of an accident and increasing your protection level in the event of a fall. Always wear a helmet. Head injuries cause

many accidents to become mortal. An open-face helmet offers some protection, but a full-face offers more. Regardless of the style, look for a DOT (Department Of Transportation) sticker in any helmet you buy (USA only) , and always wear a face shield or goggles to protect your eyes and help your vision.

Additional riding gear

In addition to a helmet and eye protection, we also recommend:

- * Sturdy boots with non-slip soles to help protect your feet and ankles.
- * Leather gloves to keep your hands warm and help prevent blisters, cuts, burns and scraped skin.
- * A motorscooter riding suit or jacket for comfort as well as protection. Bright-colored and reflective clothing can help make you more noticeable in traffic. Be sure to avoid loose clothes that could get caught on any part of your motorscooter.

Operation / Driving

Basic safety rules

Clothing must be adherent and closed around wrists and ankles. Cords, belts, and ties should not dangle: prevent these and other objects from interfering with your ride, getting caught in moving parts or driving mechanisms. Do not keep sharp objects in your pockets as in a fall they could become dangerous - for example pens or mechanical pencils, etc. Also make sure that your passengers obey this rule.

Accessories

The owner of the vehicle is responsible for the choice, installation and use of all accessories.

The installation of inappropriate accessories or overloading the vehicle could render it unstable and cause accidents, with the consequent risk of serious injury and even death. Windshields are particularly dangerous in the case of accidents, because they can break and injure or cut the driver.

In case of doubt about any accessory or installation or any freight to be carried. It is recommended that you first consult your local Kumpan Dealership. Avoid installing accessories that cover the horn or the headlights, or that could compromise proper functioning. Do not install accessories that limit suspension stroke or steering angle, that interfere with the use of the controls, or that decrease the angle of inclination when turning the scooter. In addition, do not install accessories that block access to the various vehicle controls, as it could slow your reaction time in the case of an emergency. Fairings and windshields, or other accessories with a large cross section can create aerodynamic forces that influence the stability of the scooter, especially at high speeds or in the presence of strong winds. Make sure that all objects transported on the scooter are well secured and cannot become unattached and block the wheels, the forks, etc. Do not install electric

accessories and do not modify the scooter's electrical system. Any component that could cause an electrical surge or an electrical problem could lead to the immediate stopping of the vehicle, the lights and horn to turn off or lose intensity, and malfunctioning of the other safety features. Use only original Kumpan accessories.

Load

Do not overload your motorscooter. Secure bags and baggage as close to possible to the vehicle's center of balance and distribute the weight as uniformly as possible between the two sides, to reduce imbalance as much as possible. Always remember that the baggage will tend to loosen during the ride. For this reason, check frequently that your baggage is secure. Never allow objects to hang from the handlebars of your vehicle.

From the mudguards, or the forks as they compromise the maneuverability of your vehicle and impede your ability to avoid an accident. Not observing these warnings may lead to a fall, resulting in serious injury and even death. Do not ride with a helmet attached to the belt, since in the position it could easily become entangled in the wheels, the mudguards or in the forks, causing a fall, serious injury or even death. When you carry a passenger always remember that the vehicle's maneuverability is reduced, the brakes are less efficient, and the center of gravity is higher and farther back. This increases the possibility of the front wheel losing contact with the ground, especially while accelerating. For this reason, avoid abrupt accelerating and braking. Many accidents are caused by inexperienced riders who are carrying a passenger. Remember to execute driving maneuvers with a greater allowance for safety in case of excessive passenger weight.

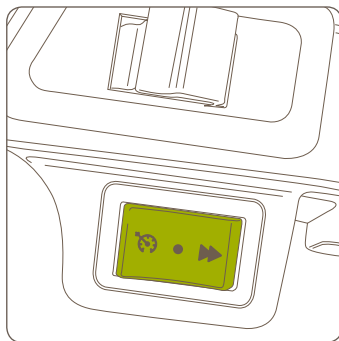
Avoid abrupt and excessive acceleration. Slow down in advance, and calculate distances for stopping and for longer maneuvers. Not following these instructions could lead to the vehicle overturning or other accidents with consequent serious injuries and even death. Never transport objects that are packaged badly and make sure that all items on the scooter are carefully secured. Do not carry packages that protrude from the luggage rack or which cover any of the alarm devices or lights. Do not allow animals or children to travel on the vehicle. Overloading your vehicle can seriously decrease its stability and maneuverability leading to a fall, with consequent serious injury or even death.

First drives:

Until you have driven your first 100 kilometer, avoid sudden and extended brakes.

Allow the brake pads to reach their full performance after the first 100 kilometer of usage.

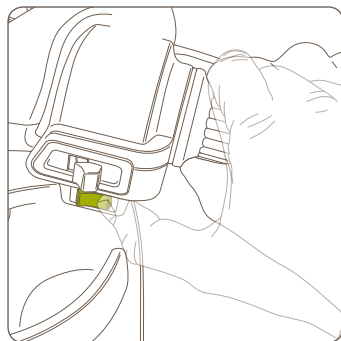
Boost function:



For the even sportier driver, the KUMPAN is equipped with a boost switch.

The combination switch (Tempomat / Neutral / Boost) on the right side of the electrical controls activates the boost mode with the driver's right thumb.

If the selector switch is pushed to the right, the Boost mode is activated. In the digital cockpit, the function is



confirmed by the indication of a blue symbol (double arrow).

Your KUMPAN can now accelerate with higher power than in the normal driving mode. This uses slightly more energy from the battery, so that the battery range decreases accordingly.

When using the brakes, the boost mode will stop immediately. After using the boost mode for 10 to 15 seconds, it will automatically switch off.

The blue icon disappears and your KUMPAN waits for new commands.

Cruise control:



CAUTION:

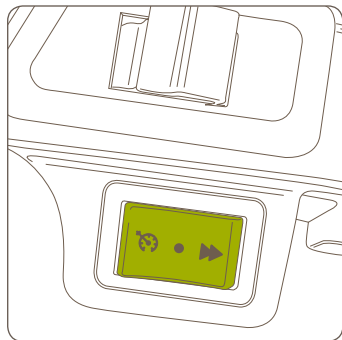
We recommend in any case to leave the right hand constantly on the handlebar. This will allow you to use the brakes at any time. Any other movement with your right hand should be avoided.

Always observe the traffic, especially when the cruise control mode is activated.

Cruise control is only a function to allow the driver to keep a constant speed. The driver always has the responsibility for the speed driven and braking in time.

Don't use the cruise control mode in the following situations:

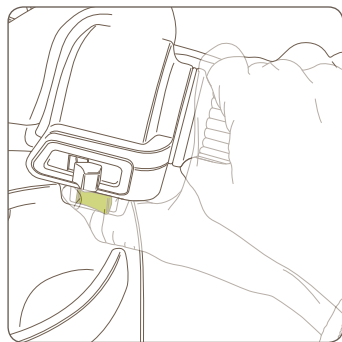
- **In traffic situations that do not permit driving at a constant speed (eg. in heavy traffic or winding roads). You could otherwise cause an accident.**
- **On slippery roads. The wheels could lose their grip when braking or accelerating.**
- **In poor visibility (eg. due to fog, heavy rain or snow).**



To allow relaxed driving, your KUM-PAN is equipped with a cruise control function.

On the right handlebar is a combination selector (Tempomat / Neutral / Boost). The cruise control is activated while driving (faster than 15 km / h) with the right thumb.

Cruise control:



Only when the acceleration grip is in a constant position for several seconds, your KUMPAN activates the cruise control. The blue symbol in the digital display confirms the activation of the cruise control function (speedometer symbol).

The easiest way to activate the cruise control is when the scooter drives already several seconds with highest speed. In general, the cruise control should only be used outside of inner city traffic.

Each braking with front or rear brake or each acceleration has the immediate effect that the cruise control operation is terminated. The blue icon will disappear in the digital display.

Operation / Driving

Stopping / parking

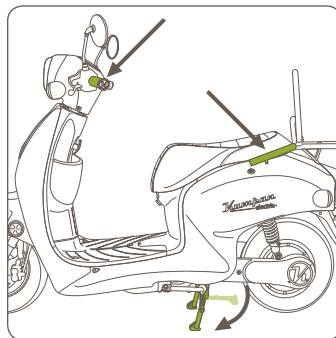
Take away the gas and brake the vehicle slowly.

Pull the rear brake lever and hold it.
Place your vehicle onto solid ground, so that it can not fall over.

Turn the ignition key to „OFF“.
Place the vehicle onto the side stand or main stand.

Activate the steering lock.
Pull off the ignition key.

Place the vehicle onto the main stand:



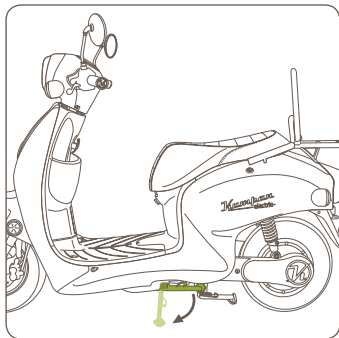
Main Stand:

Place yourself on the left side of the scooter.

Hold the scooter on the left grip and grab the passenger handle.

Press with your foot the pedal of the main stand down until it reaches the ground.

Pull the passenger handle up and press the pedal down to place the scooter on the main stand.



SIDE STAND:

Hold the scooter on the left grip and grab the passenger handle.

Now press the side stand with your right foot down until he pops out entirely.

Lean the vehicle on the side stand until it rests safely on the ground.



Lean the handlebars all the way to the left.

WARNING:

Always check that the scooter is in a stable position.

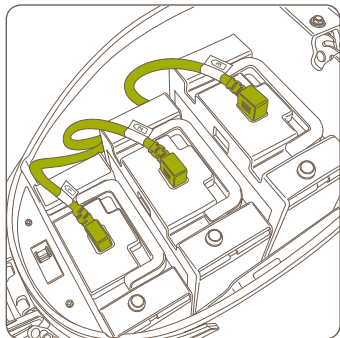
The scooter is in any case more stable and secure on the main stand, especially if it has to stand for a longer time.

The side stand is equipped with a safety switch.

Therefore please always check before starting the vehicle that the side stand is fully placed back in the driving position.

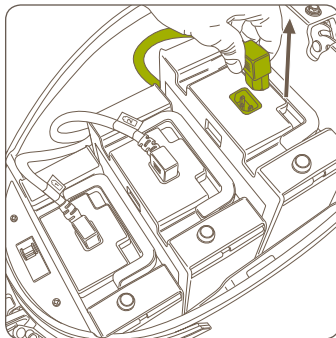
Operation / Driving

Removing the batteries



If the ignition key still in the ignition switch, turn it to „OFF“.

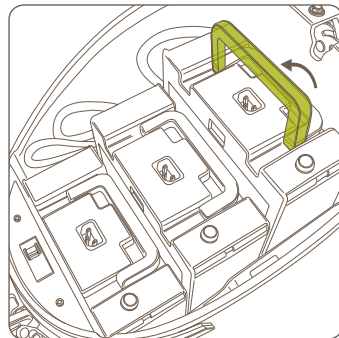
Open the seat (see page 27).



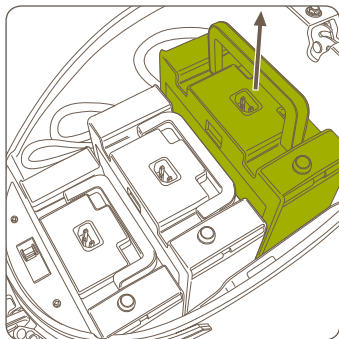
Always switch off the blue main power switch, before each plugging or unplugging of the batteries.

Now pull off the plug of the battery by pulling it upward.

**Always pull on the plug,
not the connection cord.**



Now place the handle of the battery in an upward position.



Now the battery can be simply pulled upwards out of its compartment.



The battery can be easily carried by hand or with the Kumpan shoulder strap over your shoulder.

Always switch off the blue main

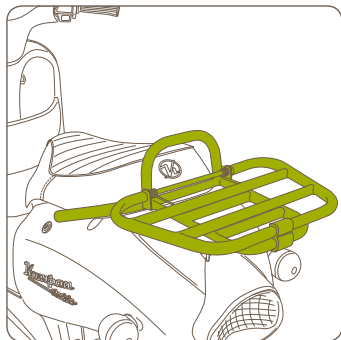


WARNING:
Damages caused by own fault will void the warranty.

Therefore vehicle repairs should always be carried out by a specialized workshop.

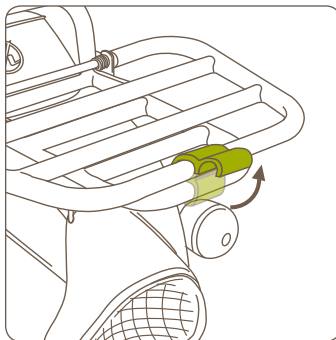
Operation / Driving

Rear rack

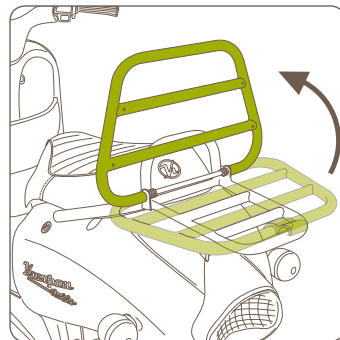


Your Kumpen 1953 is equipped with a folding steel rear rack.

In addition to a classic look, the rear rack allows you to transport bulkier luggage and to mount a top case (see page 64 ff.).



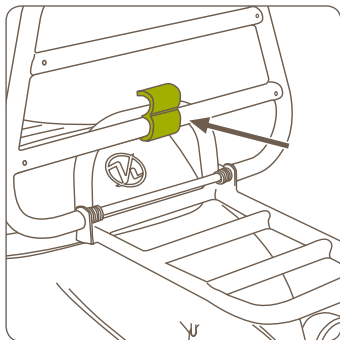
To unfold the rear rack, hold the upper bracket with one hand and loosen the holding clip.



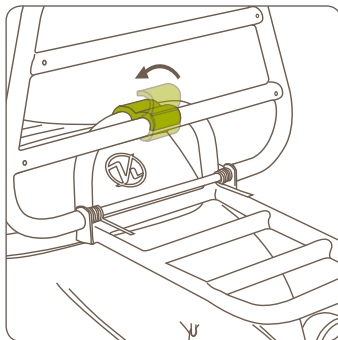
Now flap the top bracket upwards.

WARNING:

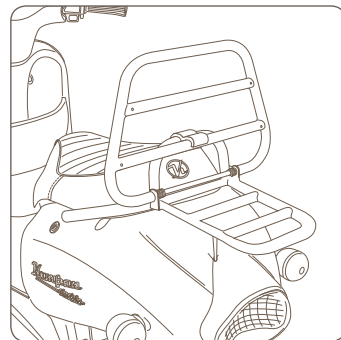
The upper bracket of the rear rack has biasing springs, which keep it in its unfolded position. When opened it can quickly spring upwards.



Place the holding clip on the upward bracket.



To safely secure the bracket fix the holding clip as shown in the picture.



Now you can easily tie down and transport larger and bulky loads.

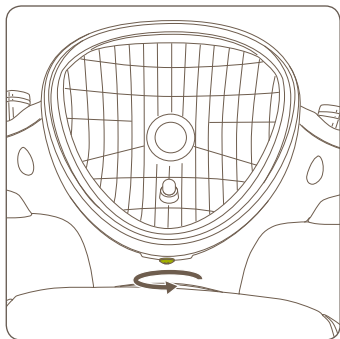
WARNING:
The rack is designed exclusively for transporting objects (such as bags).

Never transport people or animals on the rear rack.

Always be sure that the load is safely secured.

Maintenance

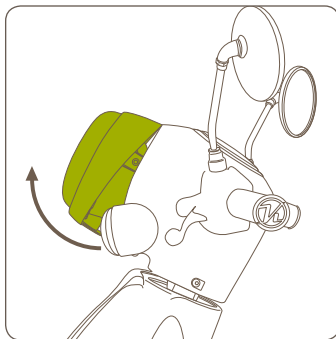
Lighting



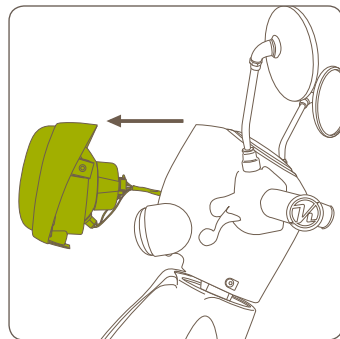
FRONT LIGHT

The main switch must be in the „OFF“ position (see page 60).

Loosen the central screw of the front light at the bottom of Chrome cover with a screwdriver (counter-clockwise).



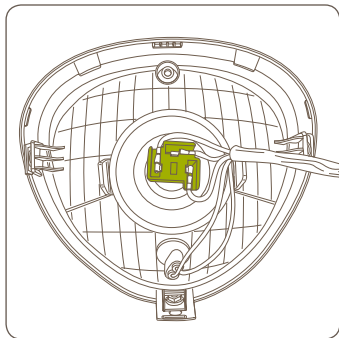
The front light unit with reflector, socket and chrome cover is secured with four other clips.



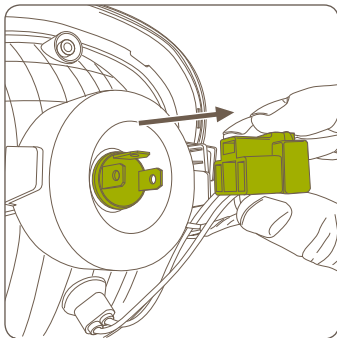
Loosen the bottom two by pulling the unit forward and upward.

Now release the two top clips by gently pull the unit down and forward.

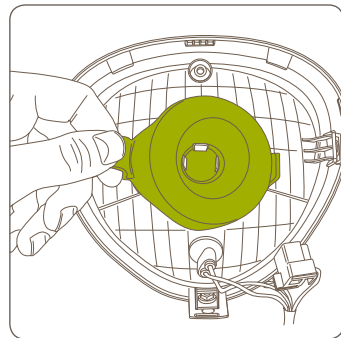
The front light is connected by a cable to the vehicle electronics. Now release the connections.



To change the low-beam light source you need to remove the large connector on the back of the reflector.



Remove the connector by pulling it gently backwards.



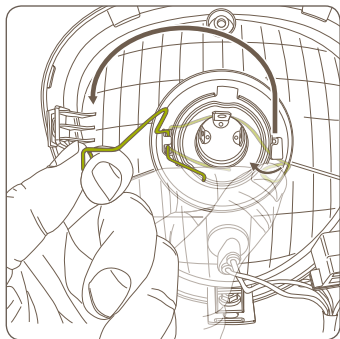
Now remove the splash guard by pulling it on one of the ears backwards.

WARNING:

Make sure that the front light glass is not damaged in this position and is on a soft surface.

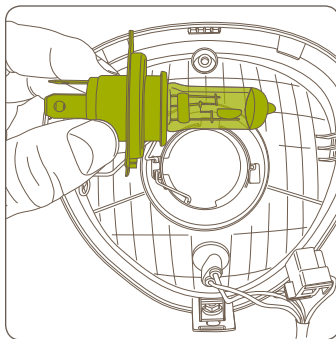
Maintenance

Lighting



The bulb is locked with a steel spring in the reflector.

Loosen it as shown in the drawing.

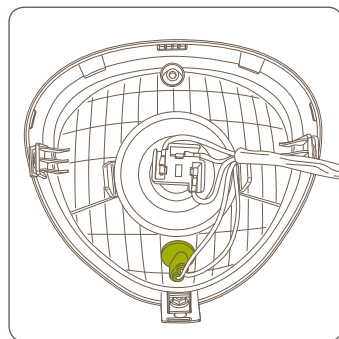


Remove the bulb from the reflector. For installation simply proceed in reverse order.

WARNING:

Always hold and touch the functional lamps just on the socket, never touch the glass.

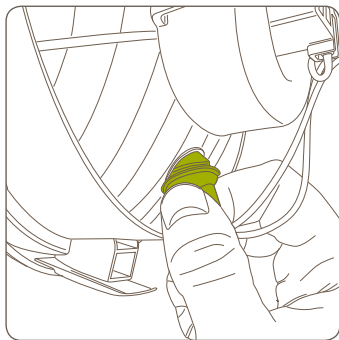
This could greatly affect the life time of the bulb.



PARKING LIGHT:

The main switch must be in the "OFF" position (see page 60).

The parking light bulbs with their rubber cover is splash-proof and is fixed on the reflector.



To change the parking light bulb pull the rubber cover with light pressure downward out of the reflector.



Pull the bulb simply with a cloth or gloves out of its socket.

For installation simply proceed in reverse order.

WARNING:

Always hold and touch the functional lamps just on the socket, never touch the glass. This could greatly affect the life time of the bulb.

WARNING:

Damages caused by own fault will void the warranty.

Single components are tightly fitted and difficult to reach. Some bulb changes might need a more complex dismantlement procedure.

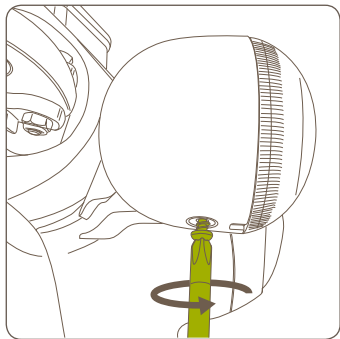
Therefore vehicle repairs should always be carried out by a specialized workshop.

Bulb information:

- Low / high beam bulb: H51 12V 35W
- Parking light bulb: W5W 12V

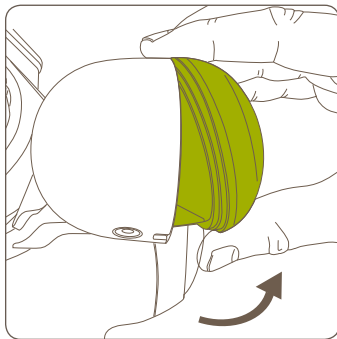
Maintenance

Lighting



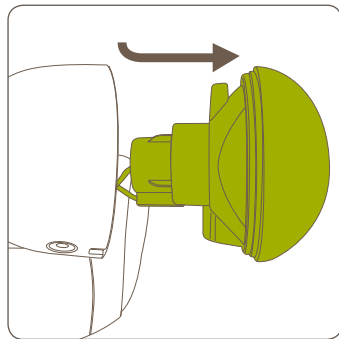
Turn signals front and rear
The main switch must be in the
“OFF” position (see page 60).

Loosen the central screw at the
bottom of chrome cover with a
screwdriver (counter-clockwise).



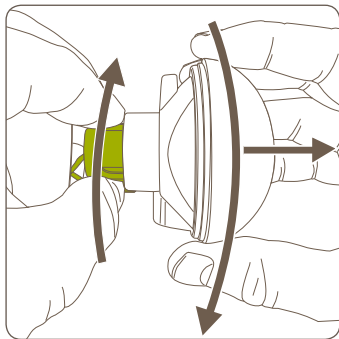
Pull the turn signal lens with reflector
and lamp socket first on the lower
side out of the chrome housing.

To remove the turn signal lens from
the upper clip, press slightly down
and pull the entire unit forward out
of the housing.



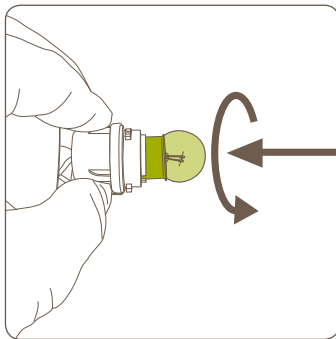
The turn signal is still connected by a
cable to the vehicle electronics.

Never pull the unit too far out of the
housing and never force it out.



To remove the socket from the reflector, turn the socket clockwise and the reflector in the opposite directions.

Now pull the socket with bulb carefully out of the reflector.



To remove the bulb from the socket, press it with a cloth into the socket and turn the light bulb in this position counterclockwise.

For installation simply proceed in reverse order.

WARNING:

Always hold the functional lamps just on the socket, never touch the glass directly.

This could greatly affect the life time of the bulb.

Damages caused by own fault will void the warranty.

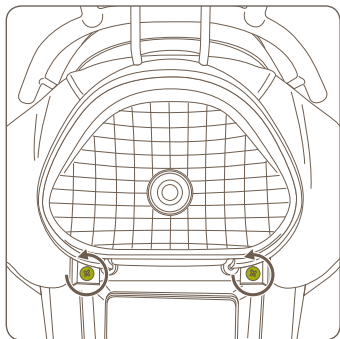
Single components are tightly fitted and difficult to reach. Some bulb changes might need a more complex dismantlement procedure. Therefore vehicle repairs should always be carried out by a specialized workshop.

Bulb information:

- Turn signal lamps: BA10 12V 5W

Maintenance

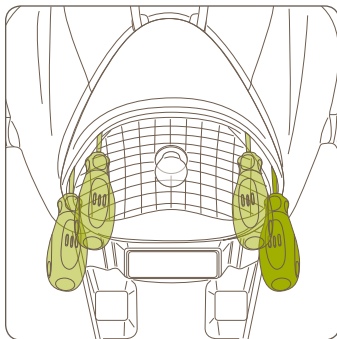
Lighting



REAR LIGHT:

The main switch must be in the "OFF" position (see page 60).

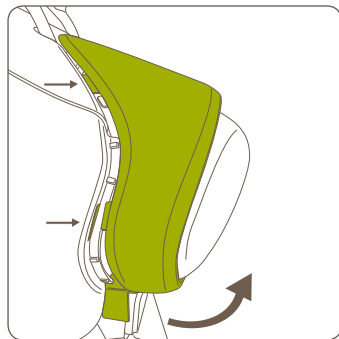
Loosen the central screws at the bottom of chrome cover with a screwdriver (counter-clockwise).



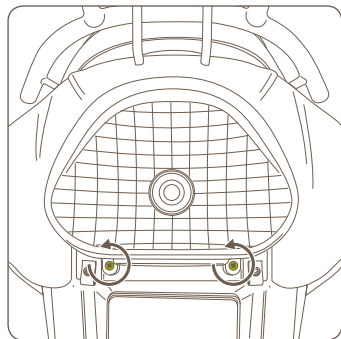
The chrome cover is held by four clips on the scooter panel.

To remove these clips put on a small screwdriver gently between chrome cover and rear light glass at the locations shown.

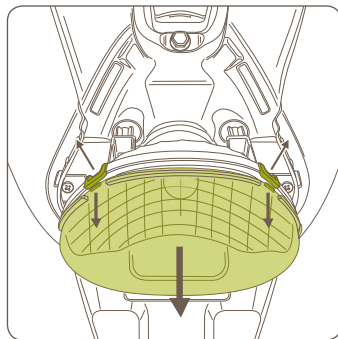
Gently press the clips outward.



When the four clips are dissolved, pull the chrome cover firstly on the bottom and then on the upper side backwards.

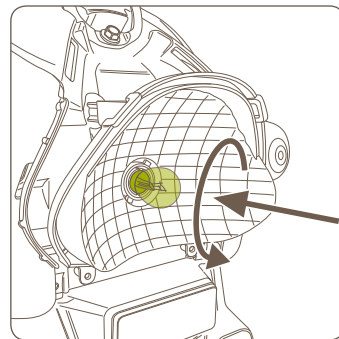


To remove the glass, loosen and remove the two illustrated screws with a screwdriver (counter-clockwise).



Now gently press the two upper brackets of the reflector upwards, so that the two notches of the lamp glass are exposed.

In this position, pull the lamp glass backwards.



To remove the bulb, push it with a cloth or glove into the socket.

Turn the lamp counter-clockwise until it stops and pull it out of the socket.

Maintenance

Lighting

WARNING:

Always hold the functional lamps just on the socket, never touch the glass directly.

This could greatly affect the life time of the bulb.

Damages caused by own fault will void the warranty.

Single components are tightly fitted and difficult to reach. Some bulb changes might need a more complex dismantlement procedure.

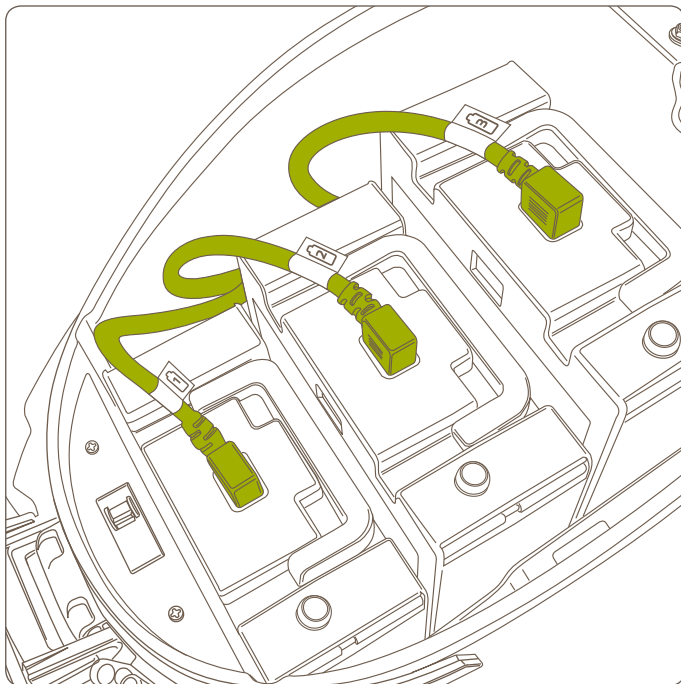
Therefore vehicle repairs should always be carried out by a specialized workshop.

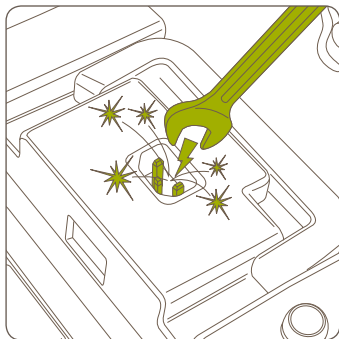
Bulb information:

- Rear light lamps: BA15D 12V 15/5W

Dead batteries harm the environment. Collection and disposal must be conducted in compliance with regulations currently in force.

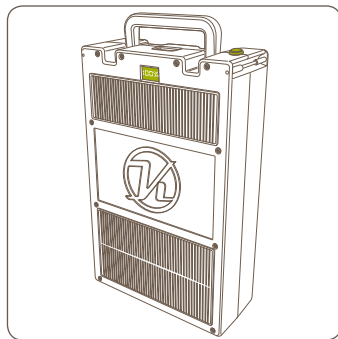
Batteries and cables:





WARNING:

**Never touch with a ring
or a conductive object the poles
of the battery - RISK OF ELECTRIC
SHOCK!**



Each LiFePo4 battery of Kunmpan Electric is equipped with a separate LCD display. At any time this display indicates the current charge status of the battery.

On top of the battery block is a silver button.
If the button is pressed for several seconds, the LCD display is activated.

First the 188 appears briefly.
These are all segments, which can be

shown in the display. If the 188 is not fully indicated, the display is faulty. If the button is pushed and hold for a few seconds, the current charge status appears in percentage. An empty battery displays only a few percentage points. A full battery indicates 100%.

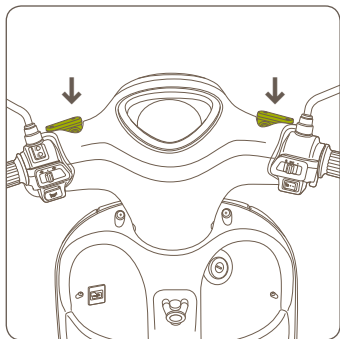
The display is only an indication of the approximate charge status of the battery, the mathematical accuracy is around +/- 10%.

Especially during loading the display will indicate 100% very rapidly even if the real charge status has only reached 10%. Just after a few minutes of charging the LCD display returns to normal status.

Also, the percentages rise slightly immediately after using the battery. They will return to a stable level after a few minutes.

Maintenance

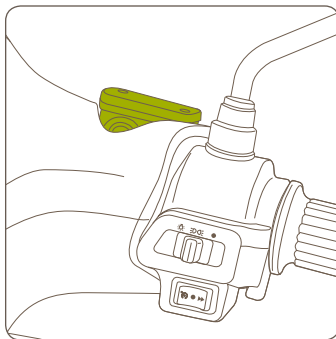
Brakes



REAR / FRONT BRAKE:

Check the brake fluid level on the basis of the sight glass in the brake fluid reservoir at the front and rear brake levers.

Place the vehicle on a level surface on the center stand and place the steering wheel in the center position.

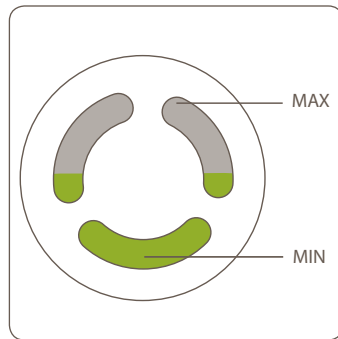


If the sight glass is completely empty, the brake fluid level is below minimum.

WARNING:

Safe operation is no longer guaranteed when the brake fluid level is at minimum !!!

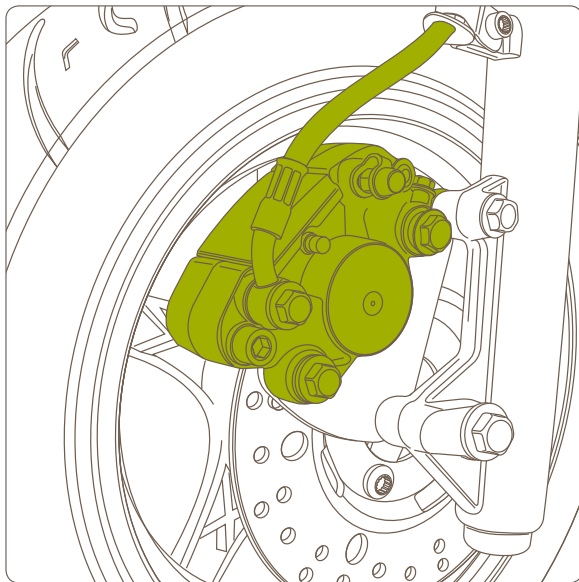
In this case consult as quickly as possible a specialized workshop.



Check the brake hose and the brake cylinder for leaks.

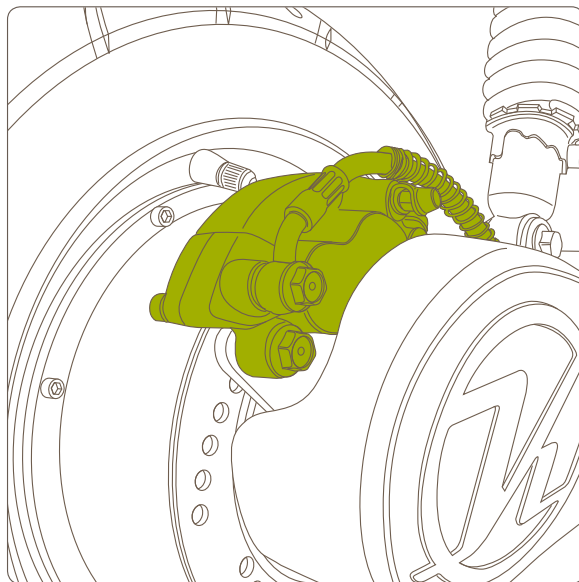
Check the brake disc for scratches and damages.

Respect the recommended maintenance intervals, so that the brake discs and brake pads are replaced when necessary.



picture shows front brake system

picture shows rear brake system





WARNING:

Use only brake fluid that is classified dot 4. Brake fluid is extremely corrosive: prevent it from coming into contact with the painted parts.

CAUTION:

Avoid the brake fluid coming into contact the eyes, skin or clothes. Wash with water if it accidentally does. Braking circuit fluid is hygroscopic so it absorbs humidity from the surrounding air. Braking will be inefficient if the humidity in the brake fluid is higher than a certain value.

Never use brake fluid in containers that have already been opened or partly used.

CAUTION:

Braking force must begin after the brake lever has been pulled for approximately a third of its total.

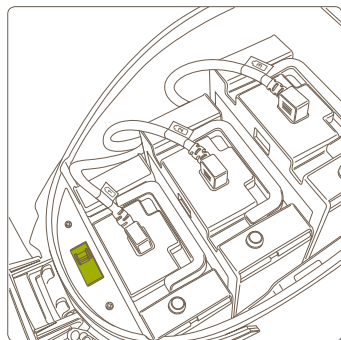
CAUTION:

The thickness of the brake pads is checked by the dealer in accordance with the checks provided for in the scheduled maintenance chart. However, if you hear strange noises coming from the front and/or rear braking system when you use it, you should go to an authorized Kumpan service center or dealer. After replacing the brake pads, do not use the vehicle until you have pulled the brake lever several times to settle the small pistons and bring the lever travel into the right position.

CAUTION:

Sand, mud, snow mixed with salt etc on the road could reduce the life of the pads considerably. To avoid this happening you are advised to wash the vehicle frequently when road conditions are like this.

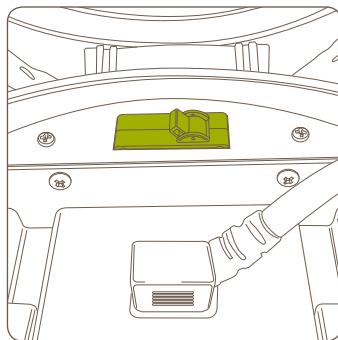
Main switch / main fuse



The scooter has a main power switch under the seat (see marking in the illustration).

In order to use the main switch, open the seat.

The power switch is located in the front part of the battery compartment, behind the seat hinge.



The main power switch has two positions:

“ON” means the circuit is closed.

“OFF” means the circuit is interrupted.

WARNING:

When the main power switch is “OFF”:

- the circuit is interrupted and the scooter can no longer be started.
- the charging of the batteries is not possible in the scooter.

When the main power switch is “ON”:

- the circuit is closed and the vehicle can be started.
- the circuit is closed and the batteries can be charged.

Cleaning and care

Instructions for cleaning and care:

To prevent rust, we recommend that you clean and dry the vehicle after driving through rain.

We strongly recommend the use of rust-preventive care products.

Use only suitable cleaning and care products and a soft sponge.

Never use solvents.

Never points a direct waterjet on the following components:

- headlights
- switch/buttons on the handlebar
- brake lever
- Steering wheel lock
- tire and hub bearings front
- front and rear brake system

After washing, any cleaning residues should be removed with clear water: Dry your vehicle with a leather cloth.



WARNING:

When freezing outside temperatures, make sure that the brake system is working properly before using the vehicle.

After washing your vehicle, perform some braking tests at a secure location. Water on the surface of the brake discs temporarily reduces the braking performance.

PERIODS OF INACTIVITY

You are advised to perform the following operations:

1. General cleaning of the vehicle
2. When the engine is still and with the piston at the bottom dead center, remove the spark plug, and place 0,06+0,12 in³ (1+2cm³) of oil in its hole. Operate the starter 3-4 times letting the engine perform a few revolutions, then remount the spark plug.
3. Drain all fuel from the vehicle; spread the antirust grease on the non-painted metal parts; keep the wheels lifted above the ground.
4. For the battery, follow the procedures described in the "Battery" section.
5. Drain the gasoline from the carburetor tank
6. Replace engine oil.

CLEANING THE VEHICLE

In order to soften the dirt and mud deposited on the painted surfaces, use a low pressure jet of water. Once softened, mud and dirt must be removed with a soft sponge for bodywork soaked in lots of water and ``shampoo`` (2-4 % of car shampoo in water). Finish by rinsing abundantly with water, and dry with a shammy cloth. For the outside of the engine, use fuel, a brush and clean cloths. Fuel can damage paintwork. Remember that any polishing with silicon wax must always be preceded by washing.

CAUTION:

Washing compounds could pollute the water. The vehicle must be washed at a washing facility with equipment for purifying the washing water.

CAUTION:

You are advised to use a water cleaner for the washing of the engine and the vehicle ; if this is not possible, carry out this operation in another way, it is necessary:

- * Only use the fan jet
- * Do not place the gun closer than 2 ft (60 cm).
- * Do not use water at temperature of over 100°F (40° C).
- * Not use high pressure jets.
- * Not to steam wash.
- * Do not direct the jet at : the engine, the electric cables, the cooling slits in the transmission cover and the spiral cover.

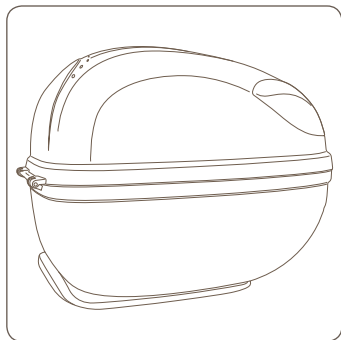
CAUTION:

Never wash the vehicle in the sun especially during the summer when the bodywork is still hot. The shampoo may dry before being rinsed off, and could damage the paintwork. Never use cloths soaked in gasoline, alcohol, diesel or oil when washing painted or plastic surfaces to prevent them losing their sheen or altering their mechanical properties. Use of silicon waxes can damage painted surfaces, depending on the color of the vehicle (in particular satin colors)

Contact an authorized service center for information.

Accessories

Top case installation

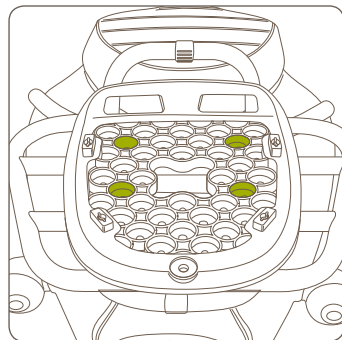


The top case provides additional storage space. It can accommodate another helmet or bag.



You open the top case using the key and turning the lock to the right.

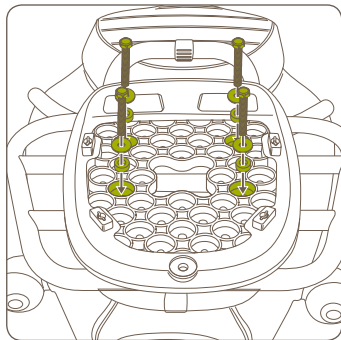
**IMPORTANT: Always lock the top case when parking the scooter.
Leave no valuables in the top case.**



You need the following tools for installation (top case plate and top case):

1x screwdriver
2x Allen wrench (10 size)

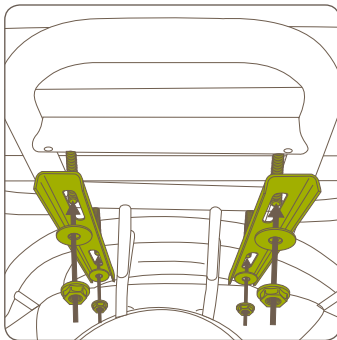
To install the top case place it on the folded-down and fixed rear rack of your vehicle.



The green spots in the picture above indicate the connection points to install the top case.

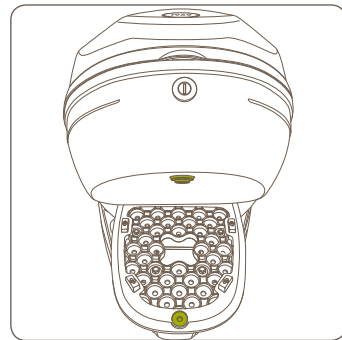
Use the 4 pieces of M6 x 70mm hex bolts to install the top case, each with a washer and a rubber O-ring from the top.

Each with a washer and a rubber ring from the top.



Place a mounting rail on two screws on each side and place a washer and a M6 nut on the opposite side.

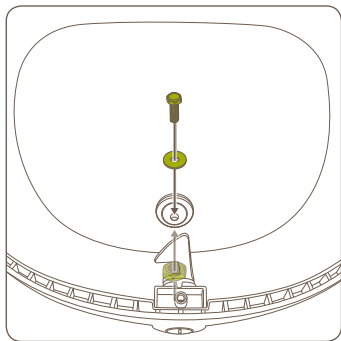
Holding the screws in position from below with a 10 Allen key and fix the screws on the top with a 10 hex wrench or ratchet hand.



To mount the top case onto the top case plate, first set the two rear notches of the top cases in the guide handle of the plate.

After that, place the top case with the front attachment point in the designated hole of the top case plate (marked in green on the picture).

Accessories



Now open the top case, adjust the rubber mat and fix it with the short M6 hexagon screws and washer using a 10 Allen key from the top, and an M6 nut from the bottom.

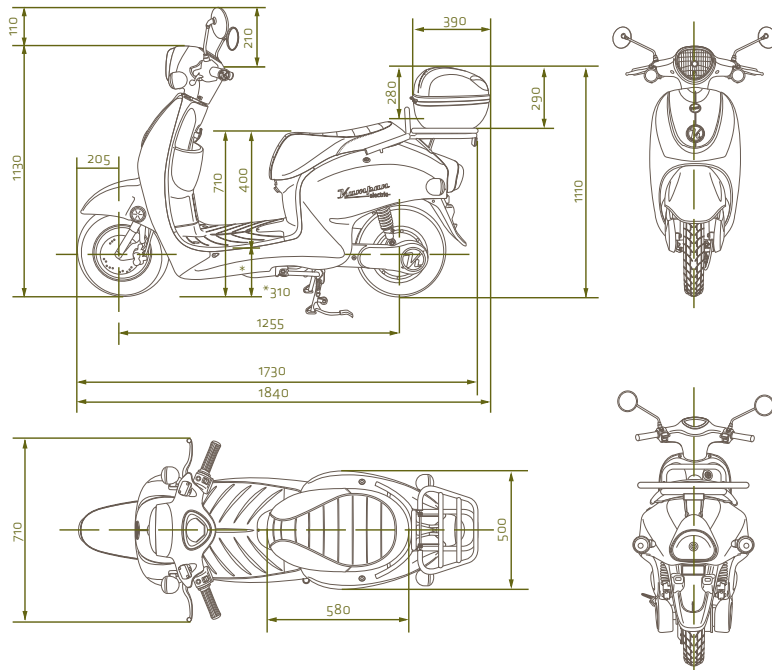
Troubleshooting

PROBLEM	POSSIBLE CAUSE	TROUBLESHOOTING
• You turn the ignition key into the "ON" position, use the throttle, but the scooter will not start.	• The main switch is in "OFF" position.	• Switch the main switch on again (see page 65).
	• The side stand is not folded properly.	• Flip the side stand completely in (see page 47).
	• The battery charge is insufficient.	• Connect your scooter with the battery charger and charge it (see p 28).
	• There is no battery connected.	• Connect a charged battery.
	• There is an electrical short circuit.	• Find a specialized workshop.
<hr/>		
• The range of the scooter decreases	• The tire pressure is too low.	• Check the tire pressure and correct it (see page 14).
	• Outdoor temperatures around freezing or below.	• Connect your scooter to the battery charger and charge the batteries (see page 28). Perform a visual inspection of all mechanical and electrical parts (see page 60).
	• The chargeable capacity of your battery decreases.	• Check the batteries by a specialized workshop or replace the batteries.

Problem	POSSIBLE CAUSE	TROUBLESHOOTING
<ul style="list-style-type: none">• The batteries can not be charged	<ul style="list-style-type: none">• The main fuse is in the "OFF" position.• There is no longer any connection between scooter and charger.• The charger is defect.	<ul style="list-style-type: none">• Switch the main switch on again (see page 65).• Connect the charger again with the charging port of the scooter (see page 28).• Replace the defective charger.
<ul style="list-style-type: none">• The charging proces is not working properly	<ul style="list-style-type: none">• There is a risk of short circuits or other defects.	<ul style="list-style-type: none">• Stop the charging process immediately and consult a specialized workshop.

Technical Specifications

Vehicle dimensions (in mm)





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1st version, 2015