



SCROOSER

THE UNIQUE
ELECTRIC RIDING
EXPERIENCE.

MANUAL

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GERMANY

CONTENTS

The SCROOSER electric scooter is manufactured by SCROOSER GmbH.

This user manual is produced by SCROOSER GmbH. We reserve the right to make changes to the design and features of the SCROOSER in the interest of technical optimisation.

The contents of this user manual are correct to the best of our knowledge at the time of finalizing this document.

All brand names are the property of the respective manufacturers. We reserve the right to make changes on the basis of technical developments.

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FOREWORD

Congratulations on the purchase of your new SCROOSER.

You have opted for outstanding quality – a quality that results from the carefully selected components and the use of cutting-edge technologies in the frame and throughout the rest of the scooter.

On the following pages, we explain the technical features of your SCROOSER. You can find all the tips and tricks you need for care and maintenance, plus important personal safety instructions to protect you from accidents and prevent damage to your SCROOSER.

SCROOSER is a lifestyle for pioneers. The SCROOSER is a perfectly streamlined solution to all your modern urban transport needs.

No fussy details, no rough edges: the SCROOSER is incredibly easy to use and enables individual riding styles for true explorers.

Its smart technology, including the revolutionary impulse drive, protects people and planet while remaining hidden from view. The elegant design complements both the SCROOSER's rider and the surroundings it passes through.

Every SCROOSER is made by hand to the highest quality standards and individually configured. You couldn't ask for more from the future. But you wouldn't expect any less either.

In short: your SCROOSER is the modern, environmentally friendly way of getting around over short distances.

To ensure it stays that way, please follow the care and handling instructions in this manual.

Please read this manual carefully, because if you do not adhere to these instructions we cannot assume liability and you will not be covered under warranty! In cases of doubt, please always contact a specialist or our service centre with any problems or questions!

The component manufacturers' instructions that come with the SCROOSER (depending on the model) form part of this user manual.

Happy scooting!

SCROOSER-PASS

When vehicles are stolen, they are often recovered by the police. The SCROOSER pass allows your SCROOSER to be uniquely identified, making it more likely you will get it back. The SCROOSER pass is also helpful when reporting the theft to your insurance company. Please fill in the SCROOSER pass as soon as possible and keep it in a safe place.

The 17-digit vehicle identification number (VIN) can be found on the SCROOSER and on the certificate of conformity. The model description, model name and service information can be found in the documentation supplied with the SCROOSER and in this user manual.

Address of SCROOSER owner

First name, surname
Street, no.
Postcode, city
Country

SCROOSER technical specifications

Vehicle identification number	
Model name	
Colour	
Battery serial number	
Controller serial number	
Special accessories	
Special accessories	
Purchase date	Purchase price

1 GENERAL INFORMATION

SCROOSER identification

In combination with the model plate (located under the seat), the vehicle identification number (VIN) allows the SCROOSER to be uniquely identified. This number can also be found in the individual vehicle approval (or the "Einzelabnahme") supplied with the SCROOSER.



Example: WS620111AGD999997

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
W	S	6	2	0	1	1	1	A	G	D	9	9	9	9	9	7

Conformity

The SCROOSER fulfils Directive 2002/24/EC (individual vehicle approval or the "Einzelabnahme")* and hence also Directive 97/24/EC, chapter 8, appendices I to III with regard to electromagnetic compatibility.

* In the street-legal versions

Warranty

SCROOSER warrants that the products are free from material defects or defects in title according to the statutory provisions. The warranty period for products and goods that are sold and delivered to customers who are not consumers within the meaning of Sec. 13 German Civil Code ("BGB") is, in deviation thereof, limited to one year from delivery of the purchased good.

SCROOSER provides a battery life guarantee (at least 70% of nominal capacity up to a maximum of 500 charging cycles). The warranty period is limited to six months from the delivery of the purchased good in accordance with the guarantee provisions in Section 1.4.

Guarantee provision

All SCROOSER guarantee services are subject to the following guarantee conditions:

- The guarantee granted by SCROOSER does not include labor or transport costs for the conversion. The guarantee is limited to the replacement or the repair of the defective component.
- If a guarantee service is used, this does not result in an extension or a new start of the guarantee period.
- If a component of the same type, size or color is no longer available, SCROOSER is entitled to use a part that can be considered as a successor to settle the guarantee claim.
- Guarantee services provided by SCROOSER are excluded in the following cases:
 - In the case of accidents or consequential damages resulting from accidents, crashes or other improper handling of the products.
 - In case of repairs or repair attempts on the affected component by third parties who are not authorized by SCROOSER.
 - In case of failure to follow instructions for use, improperly mandatory maintenance, improper usage, or excessive overuse of the product.
 - In case of removal or making the FIN / VIN unreadable, as well as changes to the original construction (such as „tuning“) of the SCROOSER product.

2 SAFETY

You must carefully read through the user manual before using the SCROOSER for the first time. Pay particular attention to the safety instructions. This will help you to familiarise yourself with your SCROOSER more quickly and to avoid operating errors that could result in accidents or damage.

Your SCROOSER has been supplied assembled and ready to use. However, before first use you will need to configure/adjust the SCROOSER as described in the "Getting started" section and to check that all parts are firmly secured: in particular, the handlebars, lights, saddle and wheel assemblies.

Form of safety notices

In this user manual, safety notices and warnings are marked as follows.

Each safety notice specifies the risk in question, what can happen and what you can do to prevent or reduce injuries and damage.

Structure of safety notices

Safety notices are structured as follows:

Signal word

Type and source of risk! Consequences of ignoring this safety notice.

Consequences of ignoring this safety notice.

Risk prevention

Risk categories

Safety notices are categorised as follows:

Danger

This combination of symbol and signal word indicates a situation that presents an immediate risk of death or serious injury if it is not avoided.

Warning

This combination of symbol and signal word indicates a situation that presents a potential risk of death or serious injury if it is not avoided.

Care required

This combination of symbol and signal word indicates a situation that presents a potential risk of light or minor injury if it is not avoided.

Caution

This signal word indicates a situation that presents a potential risk of damage to property or the environment if it is not avoided.

Safety notices

You can minimise the risk of injuries and damage by using your SCROOSER properly. Please note that alterations to the condition of your SCROOSER as supplied can invalidate the operating permit of the vehicle and may also result in impaired functionality for which SCROOSER cannot accept any liability.

Please observe all road traffic regulations. You are responsible for using and maintaining your SCROOSER correctly. Correct care and maintenance will ensure that your SCROOSER retains its original functionality and safety features.

Prior to using the scooter, you must carefully read this user manual. You must observe all instructions given here on how to use the scooter correctly, be in possession of any licence that is legally required to operate the scooter in the country of use and be aware of and adhere to the conditions under which the scooter may be used.

The scooter must be left in the same technical condition as supplied by the manufacturer. The manufacturer cannot accept any liability for damage caused by failure to adhere to applicable instructions and provisions, by the installation of third-party replacement parts or accessories, or by repairs that are carried out incorrectly. Unauthorised alterations or the installation of third-party replacement parts and accessories may invalidate the type approval.

The electronics box (charging and control system) may only be opened up by the manufacturer of the box.

General safety notices

Only individuals who fulfil the necessary requirements are allowed to ride the SCROOSER. These requirements are governed by country-specific provisions.

Observe all regional laws and provisions, especially with respect to compulsory insurance.

Please familiarise yourself with country-specific traffic regulations and observe them while riding the SCROOSER.

Risks resulting from alterations

Do not carry out any alterations to the SCROOSER other than installing genuine SCROOSER accessories. Removing original parts and installing replacement parts that are not authorised by the manufacturer can make the scooter unsafe and result in risk to life and limb as well as invalidating the type approval.

Risks resulting from riding the scooter incorrectly

Do not be reckless when riding the SCROOSER. The SCROOSER is categorised as a small motorcycle and you can get hurt if you fall off.

The SCROOSER's design allows it to be ridden safely from a sitting position.

Always hold onto the handlebars firmly with both hands while riding the SCROOSER.

Keep out of the blind spots of other road users. Signal your intention well ahead of time before turning or changing lanes.

Only use lanes that are designated for small motorcycles.

Only one person at a time may ride the SCROOSER; never ride with two or more people.

Do not transport heavy loads on the SCROOSER. You can lose control and sustain an injury.

Avoid riding over obstacles such as kerbs. If they cannot be avoided, ride over them slowly and carefully.

Always ride your SCROOSER with care and at a speed where you are able to control it. It is not suitable for racing and jumps. Be cautious and anticipate what is ahead. Be mindful of passengers and animals whose paths you are crossing. Be polite and considerate when "scroosing".

Always use the lights when riding at night or in conditions with low visibility. Only ride during suitable weather conditions. Do not ride the SCROOSER when there is hard-packed snow or black ice. Wet or slippery roads increase braking distances and the risk of accidents.

Avoid riding your SCROOSER in heavy rain or through puddles.

Risks resulting from adverse circumstances

Always use the lights when riding at night or in conditions with low visibility. Only ride during suitable weather conditions. Do not ride the SCROOSER when there is hard-packed snow or black ice. Wet or slippery roads increase braking distances and the risk of accidents.

Avoid riding your SCROOSER in heavy rain or through puddles.

The tires have a groove profile, and so you should be careful when riding on wet, sandy or other slippery surfaces.

Risks when parking

On a level surface, the SCROOSER's broad tires automatically keep it balanced. However, the SCROOSER can fall over as a result of strong winds or carelessness or when parked on sloped, uneven or soft surfaces. This can cause injuries to people and animals or damage the SCROOSER. For this reason, always use the centre stand to park your SCROOSER safely.

Risks resulting from unsuitable clothing

In order to avoid accidents, ensure you are clearly visible when riding the SCROOSER: wear bright or reflective clothing.

Always wear suitable clothing when riding. Ideally, you should also wear a helmet to prevent injuries. Make sure that you are legally obliged to wear a helmet. For Helmet regulations in EU, please refer to http://ec.europa.eu/transport/road_safety/going_abroad/germany/safety_helmet_en.htm OR the Article 8(1) of Directive (EU) 2015/413/EU available at <https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1523265607221&uri=CELEX:32015L0413>. (Please check with your local authorities for the most up to date regulations on helmets).

The wearing of protective clothing is governed by country-specific provisions.

Risks resulting from incorrect use of the charger

The charger is only intended for indoor use and must only be connected to a 220–240 V/50 Hz or 110V power supply.

Only chargers specifically designed to be used with the SCROOSER may be used.

Do not charge any other electronic appliances using the charger supplied with your SCROOSER.

Do not open up the charger under any circumstances.

Never touch the charger or connector with wet hands.

Do not use the charger during thunderstorms.

The charger and battery are not toys and must be kept away from children.

Do not use the charger in extremely dusty or humid conditions.

Avoid excessive exposure to sunlight (risk of overheating!).

Make sure the charger is adequately ventilated when in use.

Unplug the charger from the mains when it is not in use.

If the charger is broken, do not use it under any circumstances. If you are not completely sure or have any questions, contact the retailer you purchased your SCROOSER from or get in touch with the manufacturer directly.

You can find further instructions on the label on the charger (please follow these instructions!).

Risks resulting from incorrect use of the battery

Keep the battery and charger away from children.

Avoid excessive exposure to sunlight (risk of overheating!).

If the battery is broken, do not use it under any circumstances. If you are not completely sure or have any questions, contact the retailer you purchased your SCROOSER from or get in touch with the manufacturer directly.

If you leave your SCROOSER outside after removing the battery to charge, you must protect the connections from rain, water, moisture and dirt using a weatherproof cover while the battery is charging.

The SCROOSER battery is fitted with a battery management system (BMS). The BMS prevents the battery from overcharging or becoming fully depleted. However, you should still check yourself to ensure that the battery does not become fully depleted. If it is necessary to replace a battery or charger, only use genuine replacement parts. If you use other replacement parts or an unsuitable accessory part, there is an increased risk of damage or malfunctions, and all claims under warranty will be invalidated.

Never open up or carry out repairs on the battery. If the battery casing becomes damaged, STOP USING THE BATTERY AND REPLACE IT. There is a risk of fire (as a result of short circuits) or explosions. Opening or tampering with the electrical or mechanical components of the drive or battery invalidates the warranty.

Intended use

The SCROOSER is intended to be used by a person sitting on the saddle with a maximum load of 110 kg on roads.

Please ensure that you have purchased a street-legal version, which will be supplied with an individual vehicle approval. Other versions may not be ridden on public roads.

Legal requirements in Germany

Individuals who were born after 1 April 1965 need a Kleinkraftrad-Führerschein (minimum age 15) or other valid driver's licence. Individuals who were born before 1 April 1965 do not need a driver's licence but must be aware of traffic regulations for public roads. Small motorcycle insurance is also required for use on public roads.

In accordance with the sixth exemption to the German Road Traffic Act (StVO), dated 24 March 1994 (maximum speed 20 km/h), there is no legal obligation to wear a safety helmet or special protective clothing. However, in the interests of your own safety you should carefully consider what precautions to take. Please check which insurance cover is required for the version of the SCROOSER that you have purchased. When operating the SCROOSER on public roads, it is generally necessary to take out insurance.

3 STRUCTURE OF THE SCROOSER

Overview of components



Display

Left-hand button
(select riding mode)



Right-hand button
(long press: ON/OFF,
short press: trip counter)

Right-hand button
(ON/OFF in combination
with brake lever = locks
rear wheel)

Centre/right of display
field: speed in km/h

Battery charge
display

Display modes

HAND (H)



SPORT (S)



COMFORT (C)



ECO (E)



4 GETTING STARTED

Your SCROOSER has been supplied ready to use and ride. The battery is precharged. However, depending on the duration of the transportation period, it may have gone into sleep mode, so it must be charged before using the SCROOSER. Wake the battery up by pressing the membrane button on the battery.

You will find the following items in the packaging supplied with the SCROOSER:

- Charger
- Start key (TAG)
- Two keys to open and close the horizontal and vertical footboards and the seat

Unpacking your SCROOSER

Warning

The packaging materials are a suffocation hazard!

The packaging materials can be a suffocation hazard for children and animals. Please store the packaging materials in a safe place.

How to unpack the SCROOSER:

1. Firstly, remove the transport locks.
2. Take off the lid of the packaging and remove the cardboard stiffeners from the handlebars and seat.
3. Remove the outer packaging.
4. Lift the SCROOSER from the wheel recesses in the packaging, starting at the back (to the left) and then at the front.

The packaging is made of recyclable material and can be disposed of in designated cardboard recycling bins or in household waste. However, we recommend that you retain the packaging and store it in a dry place in case you need it to transport the SCROOSER.

Mounting and adjusting the rear-view mirror

For security reasons the rear-view mirror is demounted during transport and enclosed.

How to mount and adjust the rear-view mirror:

1. Screw the bolt with the blue colored thread in the lower part of the mirror and tighten with an Allen wrench. Thread black nut onto the bolt.
2. Mount and screw the mirror onto the clamp attached to the handlebar.
3. With a wrench tighten the black counter nut to adjust the mirror arm.
4. Use ball joint to adjust the mirror according to your desired driving position.



Adjusting the handlebars

How to adjust the handlebars:

1. Loosen the four screws on the handlebar clamp and adjust the handlebars as required.



2. After adjusting the handlebars, carefully tighten the four screws again. To achieve the required clamp tension between the handlebars and the handlebar clamp, the screws must be tightened to a torque of 15 Nm.

Caution: failure to tighten screws to the specified torque can result in damage to the handlebar components (risk of accidents!).

Checking the brakes

How to check that the brakes are working:

1. Engage the front and rear brakes, and check that both the front and rear brake lights light up when you do so.
2. If the brakes do not work at all or are defective, contact a specialist (see "Service partners").

5 START

Your SCROOSER comes with an ignition key known as a TAG. It is used to turn the scooter on. No other TAG can be used to activate your SCROOSER. It is possible to order a new TAG from the manufacturer. The SCROOSER comes with two other keys that can be used to open and close the vertical and horizontal footboard and the saddle.



How to turn the SCROOSER on:

1. To turn your new SCROOSER on, press the right-hand button on the display.

The intro will appear on the display. It ends with the greeting "HI".



2. Hold the TAG up against the SCROOSER logo on the front of the saddle.

The headlight and tail light will flash, the battery charge display LEDs on the display will light up and riding mode H for HAND will be displayed. Your SCROOSER is now ready to go.



6 CONTROLS

Lights

The SCROOSER is fitted with an LED headlight and an LED tail light (including brake light and number plate light). When you turn on the scooter, all lights are automatically activated. The legally required reflectors are located on the rear of the seat and on the side of the frame.

Trip counter and odometer

The SCROOSER has a trip counter and an odometer.

After turning the SCROOSER on, the trip counter can be opened by a short press of the ON/OFF button. After a few seconds or when you activate the throttle grip/impulse drive, the display will disappear. The trip counter is reset every time you turn the scooter off and back on again.

After turning the SCROOSER on, the odometer can be opened by holding the TAG up against the SCROOSER logo on the front of the saddle. After a few seconds or when you activate the throttle grip/impulse drive, the display will disappear.

7 RIDING

The scooter can be accelerated using the throttle grip or impulse drive. The SCROOSER is fitted with a powerful 500 W electric motor, so always ride with care. After turning the SCROOSER on (figure 8), slowly twist the throttle grip (located on the right-hand side) downwards. The SCROOSER will start to move.

Engaging the brakes cuts out the motor.

Riding modes

The SCROOSER has four riding modes (figure 8): HAND, SPORT, COMFORT, ECO.

The riding modes have different levels of responsiveness and correspondingly different ranges.

HAND – allows you to ride your SCROOSER comfortably in urban conditions

SPORT – the most dynamic way to ride your SCROOSER using Impulse Drive

COMFORT – a perfect compromise between high speed and long range

ECO – optimum efficiency for maximum range (speed reduced by approx. 15%)

The modes can be selected using the left-hand button (SELECT) on the handlebar display. When you turn the scooter on, it is set to HAND mode. Keep pressing the left-hand button to cycle through the other modes. After you turn the scooter off, it will reset to HAND mode next time you turn it on.

The display shows: H for HAND, S for SPORT, C for COMFORT, E for ECO.

Riding with the impulse drive

By law, using the impulse drive in S, C and E modes is not allowed. You must remain seated while riding your Scooser if the impulse drive is engaged. Please check your local laws to ensure you are following proper riding procedures. In the H mode, the impulse drive is deactivated. Standing while riding your SCROOSER on public roads is not permitted. Please always consult your local authorities for clarification.

Caution: the impulse drive may be inadvertently activated on descents or uneven roads, causing the SCROOSER to accelerate. To stop the impulse drive, simply activate the brakes at any time. You can also switch to H mode to avoid it. In H mode, the impulse drive is deactivated.

When riding the SCROOSER with the impulse drive, the electronic control detects when the rider pushes with their foot to accelerate (physical impulse, from 4 km/h) and adds an extra boost.

The impulse drive has three levels:

First level: the rider gently pushes with their foot. The scooter accelerates to approx. 7 km/h.

Second level: while the first level is active, the rider pushes again with their foot. The scooter accelerates to approx. 11 km/h.

Third level: while the second level is active, the rider pushes again with their foot. The scooter accelerates to approx. 25 km/h (to 22 km/h in ECO mode).

Electronic control

The SCROOSER's electronic control is fitted with overload protection. If you ascend on inclines with a gradient over 5% from a standing start without pushing with your foot, the overload protection may turn off the motor. If that happens, you need to restart the SCROOSER in the usual way. During prolonged ascents, the control unit may become very warm. If that happens, the power will automatically be reduced by approx. 30 percent. After the control unit has cooled down, the full power will be available once again. During prolonged descents, the control unit may turn off completely to prevent it from becoming damaged. If that happens, you need to restart the SCROOSER in the usual way.

Range

How far and how long you will be able to ride using the impulse drive depends on several factors:

- Road profile
- Road surface
- Weight of rider and load
- Amount of acceleration provided by rider
- Riding mode
- Wind conditions
- Temperature
- Weather
- Tire pressure

In order to extend the range of the SCROOSER, we recommend using the COMFORT or ECO mode for descents or level surfaces, and only activating SPORT mode when there is a headwind, when you want/need to accelerate faster and/or for ascents.

You can also increase the range by regularly checking and if necessary adjusting the tire pressure (0.9 bar) using a manometer. Switch to COMFORT mode in good time before traffic lights, junctions or stops in general. Ride smoothly and anticipate what is ahead in order to avoid unnecessary stops. Minimise your load and do not carry unnecessary items.

In low temperatures, especially when there is frost, store your battery in your home or office and only put it back in your SCROOSER just before you set off. When possible, do not park your SCROOSER in direct sunlight.

If you follow these instructions, you can reach a range of around 45 km in ECO mode, around 35 km in COMFORT mode and around 25 km in SPORT mode.

8 PARKING

When parking the SCROOSER for longer periods, we recommend using the centre stand. To use the centre stand, fold it down using your foot and then pull the SCROOSER backwards over the dead centre of the stand to bring it into parking position.

Caution

The centre stand can be damaged by excessive loads!

The SCROOSER must not be loaded when in parking position, as the centre stand cannot take any additional weight.

Do not sit or stand on the SCROOSER when it is in parking position.

9 TRANSPORTING

Caution

If the SCROOSER is transported incorrectly, this can result in damage to the SCROOSER or the vehicle it is being transported in!

The SCROOSER must be firmly secured during transport in order to prevent damage to the SCROOSER or the vehicle it is being transported in.

Prepare the SCROOSER correctly prior to transporting it.

Since the SCROOSER cannot be folded up, it is recommended that you only transport it in suitable vehicles (estate cars, SUVs, vans, etc.).

How to prepare the SCROOSER for transport:

1. Turn off the SCROOSER prior to transport. The handlebars can be folded down during transport. To do so, loosen the four screws on the handlebar clamp. Then fold the handlebars down. For safety reasons, we recommend slightly tightening all the screws again afterwards. Use suitable securing devices, such as bungee cords, to secure the SCROOSER in the vehicle during transport.

10 PROTECTION AGAINST THEFT

Your SCROOSER comes with two security systems as standard.

Start key (TAG) to activate your SCROOSER
Anti-theft protection while in use

Start key for added protection

Your SCROOSER can only be turned on using the electronic start key (TAG) that is supplied with it. There is no other way to activate your SCROOSER. This means it is not possible for other people to turn on your SCROOSER and ride it.

Anti-theft protection while in use

The SCROOSER also has anti-theft protection that can be activated while it is on. Engage the front brake using the brake lever on the handlebars. Then turn off the scooter using the button on the display while keeping the brake engaged. This will lock the rear wheel for four hours. If anyone attempts to move the SCROOSER while it is in this state, the headlight and tail light will flash for one minute, and the back wheel will remain locked until you use your TAG.



1. Engage the front brake and hold it down.



2. Press the right-hand button (ON/OFF).

11 BATTERY

The SCROOSER has a lithium-ion battery. After 500 charging cycles, it will still have a capacity of 70-80 percent. At an average level of use, this is equivalent to a service life of five years. After that, the battery capacity and range of your SCROOSER will decrease. At that point, you should replace the battery.

The current battery charge can be viewed by pressing the membrane button on the battery. When the battery is fully charged (battery charge: 100%), all five LEDs will be lit up.



Figure 11: battery

Battery	Battery power	Type	Charging time	Weight
SCROOSER classic	6.5 V, 19.95 Ah, 728 Wh	Lithium-ion	2 to 4 hrs	3.9 kg

In comparison with other types of battery, lithium-ion batteries have very low self-discharge. Nonetheless, their capacity still decreases over time, so even if the battery is fully charged you should recharge it at least every three months if it is not in use. In order to extend the battery's service life, we recommend charging it after each use. Lithium-ion batteries do not suffer from memory effect.

Charging the battery

There are three steps required to charge the battery:

1. Remove the depleted battery from the SCROOSER.
2. Recharge the battery (only use the charger supplied with the SCROOSER).
3. Put the recharged battery back in the SCROOSER.

Removing the battery

How to remove the battery:

The battery is located under the footboard, which has a lock to prevent unauthorised use/removal of the battery.

1. Open the horizontal footboard using the key that came with your SCROOSER and fold it forwards.
2. Lift up the battery from the front recess and detach the Rosenberger connector from the battery.



3. Remove the battery.



You can now charge the battery in an ordinary household plug socket (220/230 V) using the charger supplied with the SCROOSER.

Charge the battery at an ambient temperature of approx. 20°C. Avoid charging the battery at temperatures below 0°C, as otherwise it will take much longer to charge. After riding in freezing conditions, for example, allow the battery to warm up before you start charging it.

 **Danger**

Risk of death by electrocution!

The charger and connector are connected to the mains while charging.

Never touch the charger or connector with wet hands.

 **Danger**

Risk of death as a result of the battery overheating, catching fire or exploding!

The battery can overheat, catch fire or explode.

Ideally, you should charge the battery during the day. You should only charge it in a dry room fitted with a smoke or fire detector. Do not charge it in bedrooms.

While charging, place the battery on a large, flame-retardant surface made of ceramic or glass.

In order to prevent electric shocks and short circuits, make sure that the battery and charger do not become wet or moist while the battery is charging.

 **Caution**

Using the wrong charger can damage the battery!

If you use a different charger from the one supplied, this can break the battery.

Only use the charger supplied with the SCROOSER.

 **Caution**

The charger may become damaged if used incorrectly!

To prevent damage to the charger, you must observe the following instructions.

Only use the charger indoors with an earthed 220–240V (or 110V) socket.

Do not use the charger during thunderstorms.

Avoid excessive exposure to sunlight (risk of overheating!).

Make sure the charger is adequately ventilated when in use.

Unplug the charger from the mains when it is not in use.

You can find further instructions on the label on the charger (please follow these instructions!).

How to charge the battery:

1. Connect the charger connector to the charger socket.

Caution: the connector is magnetic. Make sure you are inserting the connector the right way round.



Figure 15: charger or similar model.

2. Plug the charger power cable into an earthed socket.

When you have successfully connected the charger to the mains, the red LED on the charger will light up. When the battery is fully charged, the LED will change colour from red to green. The battery will automatically stop charging once it is full (green LED). It takes approx. three to five hours to charge a fully depleted battery.

3. Detach the charger connector from the battery.

Caution: when detaching the charger connector, always hold the connector itself rather than the cable.

Putting the battery back in

How to put the battery back in after charging:

1. Reinsert the fully charged battery, and connect it to the Rosenberger connector.

Caution: the Rosenberger connector is magnetic. Large or small pieces of metal may get stuck to the connector. Check that the connector is clean before connecting it to the battery:



2. Then fold the horizontal footboard back down and lock it using the key supplied with the SCROOSER.

Reactivating the battery from sleep mode

If you do not use the SCROOSER for a prolonged period of time, the battery will go into sleep mode. The SCROOSER will not start while the battery is in this mode. If this happens, press the battery charge display on your battery once so that the green LEDs light up. This will reactivate the battery.

You can also reactivate the battery by connecting the charger.



Figure 17: battery with battery charge display

Storing the battery

If you are not going to be using your SCROOSER for a prolonged period of time (for example, during the winter), remove the battery first. Store it in a dry place at 5–20°C. It should be charged to 50–70% of capacity (three or four LEDs lit up on the battery). If you do not use the battery for over two months, check the battery charge status and if necessary charge it occasionally.

Cleaning the battery

Clean the battery casing using a dry or very slightly damp cloth. Do not spray the battery with a pressure washer under any circumstances, as this can cause water to get inside and/or result in a short circuit. Only charge the battery using the charger supplied with the SCROOSER. Do not use a charger made by a different manufacturer, even if the charger connector fits your battery.

Disposing of the battery

Do not dispose of the battery in normal household waste. It must be disposed of in conformity with applicable legal provisions. In accordance with the German Battery Disposal Act (BattG), individuals purchasing a new battery must take back the old one and dispose of it correctly. Lithium-ion batteries do not suffer from memory effect and so you can charge them at any time without impairing the battery capacity. Please also observe any instructions on the label on the battery or charger.

12 CARE / MAINTENANCE

If you use your SCROOSER as intended, it will have a very long service life and many of the components will require little or no maintenance. Please follow the following care and maintenance instructions in order to maintain optimum functionality.

Danger

Risk of death by electrocution!

Before carrying out maintenance work or repairs, disconnect the battery!

Caution

The battery and motor control can be damaged if any water or steam gets in!

The battery and motor control are located under the footboard. This area must be kept dry.

Do not spray with water or steam.

Annual check

The condition of the scooter must be checked at least once a year. Check that all accessible screws on the handlebars, wheels, brakes and drive are firmly secured.

The electrical system and battery must be checked for functionality and wear. Any worn-out or defective parts must be replaced. Generally, this work should be carried out by the retailer you purchased the SCROOSER from, as they have a repair manual that describes the required steps in more detail.

Despite the high level of quality, some of the components of your SCROOSER can become worn as a result of use. The level of care and maintenance and the way you use your SCROOSER (mileage, riding in rainy weather, dirt, salt, etc.) will determine how quickly and severely parts become worn.

SCROOSERs that are often or always left outdoors can also become worn more quickly due to the effects of the weather. Regular care and maintenance will increase a SCROOSER's service life. Please note that the parts listed in the following sections (brake pads, tires, etc.) need to be replaced if they exceed their wear limit.

After a certain period of time, screws (including the screws on the motor), nuts and mounting components can come loose due to stresses and vibrations. For this reason, we recommend regularly checking that these parts are firmly secured, and retightening them if necessary.

Brake pads and discs

Your SCROOSER is fitted with a hydraulic brake on the front wheel. The brake automatically adjusts for increased slack caused by wear to the brake pads. The brake pads and discs need to be checked from time to time. If the pads or discs become worn out, they need to be replaced. Contact a SCROOSER service partner to arrange this. After riding in the rain, you may sometimes hear a very loud squeaking sound when braking. If that happens, engage the front brake several times while riding the SCROOSER. The squeaking sound should then stop.

The rear brake is a mechanical disc brake that is engaged using the pedal. If you push down on the pedal very forcefully, the rear wheel can lock and the SCROOSER may skid, depending on the surface.

If the brake pads or discs are coated or smeared with dirt or residues of cleaning products, this can impair braking performance!

The manufacturer's warranty does not cover work to adjust the brakes!

Adjusting the brakes

The brakes on the SCROOSER (a hydraulic disc brake on the front, a mechanical disc brake at the rear) are largely maintenance-free. The brakes are set ex works to achieve the legally required braking deceleration values. Please check the wear of the brake pads and the brake disc at regular intervals. If necessary, look for a specialist.

Caution

Worn-out brake pads and discs are a potential source of accidents.

The brake lever must always be mounted firmly on the handlebar without twisting. If the brake lever is loose, tighten it immediately (risk of accidents!).

Tire care

If the SCROOSER is not going to be used for a prolonged period, in order to protect the tires it is better to store the SCROOSER suspended above the ground. Protect the tires from heat to prevent the formation of cracks. Silicone rubber spray can also help prevent the tires from drying out. Clean the tires before spraying! Care required: do not spray the brakes!

Cleaning your SCROOSER

Clean your SCROOSER regularly with a damp cloth (not a pressure washer!), using suitable cleaning products if necessary. Rub the SCROOSER down with a dry cloth afterwards. Use paint preservatives/car care products to preserve the paintwork. Do NOT use petroleum-based solvents, trichloroethylene or highly alkaline cleaning products, as they can dull the paintwork and are bad for the environment.

Remove flash rust (which can form on metallic parts, especially screws, or even on the paintwork) immediately after it appears to prevent the formation of further rust. In areas where there is a higher concentration of salt in the air, the SCROOSER should be cleaned at more regular intervals and coated with a film of oil to protect the materials from corrosion.

Saddle/seat

The saddle should only be cleaned with water and standard all-purpose cleaners.

13 TECHNICAL SPECIFICATIONS

Feature		Value		
Dimensions L x W x H		1,760 mm x 805 mm x 1,090 mm		
With mirror		1,760 mm x 805 mm x 1,340 mm		
Wheelbase		1,290 mm		
Seat height		700 mm		
Weight		56 kg		
Maximum permitted weight		170 kg		
Range (1-3) HAND (1) SPORT (1) COMFORT (2) ECO (3)		Up to 25 km (1) Up to 35 km (2) Up to 45 km (3)		
Speed on level surface		20 km/h; 25 km/h (depending on version)		
Motor		Brushless direct current motor 36 V/500 W		
Version	Motor	Torque	Weight	v _{max}
SCR 01 01 B	SYM-36-80ZN	43 Nm	12 kg	20 km/h
SCR 01 01 C				25 km/h
Rear-wheel drive		Gearless direct drive		
Nominal voltage – drive		36 V		
Nominal voltage – lights		12 V		
Battery		36 V/20 Ah		
Battery display		On display and battery		
Battery charging		230 V or optionally 110 V		
Battery charging time		2-4 hrs		
Tachometer display functions		Trip counter and odometer/current speed		
Front and rear tires		CST 18 x 9.5-8		
Rear tube		T18 x 9.50-8 TR87		

Feature	Value
Front rim	Steel, 7.00 x 8 4/60/100 ETO
Internal tire pressure	0.9 bar (recommended)
Front brakes	Magura MT4e hydraulic disc brake
Rear brakes	Shimano BR-R317 disc brake
Front light	LED headlight (dipped)
Rear light	LED tail light including number plate light
Signalling method	Bell

14 SERVICE PARTNERS

High-quality German engineering, carefully selected components and the use of cutting-edge technologies in the frame and throughout the rest of the scooter – these things should hopefully ensure your SCROOSER has a long service life with plenty of carefree scooting. But on rare occasions, problems can occur even with SCROOSERS.

If that happens, please contact one of our service partners or call our customer service hotline on +49 (0)30 22 18 367 900 (Monday - Friday, 9 a.m. to 5 p.m.) or contact us at contact@scrooser.com.

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