

KOOLUX

Enjoy Every Mile

Pedelec-with electric drive
up to 250W



Product Model: X13

Operating Manual
EKM V 6.1.1

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About the Operating Instruction Manual

Please read the operating instruction manual before use in order to use all functions correctly and safely. This operating instructions does not replace the personal instructions of the specialised dealer who supplied the bike. The operating instruction manual is an integral part of the bicycle. If the bicycle is ever resold, it must be handed over to the next owner.

Please read and observe all accompanying documentation before using the bicycle. The accompanying documentation includes the following types of documents:

- Operating Instruction
- Assembly Instruction
- Declaration of Conformity

Security Icons



Use according to instructions



Warning



Caution

Manufacturer:

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Yongkang, Zhejiang, China

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BICYCLE USER MANUAL

The company reserves the right to modify and interpret the product models, specifications or related information mentioned in this manual;

The functions of a specific model mentioned in this user manual are only applicable to that specific model; The product models, specifications or related information mentioned in this user manual are subject to any modification or change without prior notice;

Without the prior written permission of the company, the contents of this manual may not be copied, modified, reproduced, transmitted or published in any form. Please read this manual carefully before using the product, and operate in accordance with the manual, otherwise the company will not be responsible for product damage or personal and property damage caused by improper use or mistakes.



IMPORTANT

This manual contains important safety, performance and service information. Please read it carefully before riding your new bike for the first time and keep it as a reference for future reference.

Additional safety, performance and maintenance information for certain parts such as shocks absorbers or pedals on your bicycle may also have been included with your bicycle or the accessories you purchased. Before your first ride, be sure to read all documents provided.

If you have any questions about use or service, repair and maintenance, please contact customer service.

Statutory Warranty and Guarantee Claim

*Explanation of statutory warranty

The manufacturer grants a 24-month warranty (another word for this: liability for defects) on new goods (§439 and 476 of the German Civil Code).

The warranty covers defects that the product already had at the time of purchase. If you discover a defect, you can demand that the manufacturer repair or otherwise improve the product.

If the seller is of the opinion that the defect only arose after the purchase, the buyer must prove this within the first six months. After six months, the burden of proof is reversed. The buyer must prove the defect already existed at the time of purchase.

*Explanation of guarantee

The guarantee is a voluntary service provided by the manufacturer (manufacturer's guarantee). The duration and conditions are freely determined by the manufacturer.

Manufacturer's warranty

The manufacturer grants a warranty of 2 years on frame breakage and 6 months on the entire bike and its attachments. This excludes all worn parts, such as chains, pedals, toothed belts, tyres, rims, tubes, bearings, derailleur hangers, brake pads, chain wheels, sprockets, bottom brackets, shift and brake cables, shift and brake lines as well as paintwork and stickers. The warranty does not cover any damage caused by not following the assembly instructions or by improper use (jumps, stunts, tricks, wheelies, downhill). The bike is to be used exclusively for private use. Damage caused by renting, leasing or participation in competitions is completely excluded from the warranty. The warranty is invalidated if you carry out repairs, conversions or other modifications to this bicycle yourself without consulting the manufacturer. The warranty is also invalidated if the maintenance intervals specified in this user manual are not adhered to and a careful inspection of your bicycle is not carried out at least once or twice a year.

The original proof of purchase must be kept together with the service booklet in order to safeguard warranty claims. With the purchase, the warranty conditions are recognised in full and without restriction. The following conditions apply:

- No warranty for accidental damage
- No guarantee in the event of improper use
- No guarantee in the event of misuse
- No guarantee in the event of damage due to incorrect assembly
- No guarantee if the inspection and maintenance intervals have not been observed
- No guarantee in the event of loss of components and add-on parts



GENERAL WARNINGS

Cycling, like any other sport, involves the risk of injuries and property damage. When cycling, you take responsibility for the risk. That's why you should know - and follow - the rules of safe and responsible riding and correct use and maintenance. Proper use and maintenance of your bicycle reduces the risk of injury.

Your electric bike is intended for people aged 16 and over. Regardless of age, riders must have the physical coordination, reaction time and mental ability to ride safely in traffic. The relevant legal regulations on the use of bicycles should be respected.

If you suffer from an impairment or disability, such as poor eyesight, hearing loss, physical impairment, cognitive or speech impairment or a seizures, you should consult your doctor before your first riding.

Prohibition of modifications

Modifications only permitted by the manufacturer! Modifications made without the manufacturer's consent invalidate the declaration of conformity!

Unauthorised modifications or changes to the bicycle can lead to serious injury and loss of warranty.

This applies in particular to tampering with and modifying the electric motor and the control unit.

Never modify the control unit or the electric motor.

There are many components and accessories available to improve the comfort, performance and appearance of your bike. However, if you replace components or add accessories, you do so at your own risk. The bicycle manufacturer may not have tested this component or accessory for compatibility, reliability or safety on your bicycle type. Before installing components or accessories, including but not limited to a different tyre size, lighting system, luggage rack, child seat, trailer, etc., check with your dealer that these parts are compatible with your bicycle. Make sure you read, understand and follow the instructions that come with the products you buy for your bicycle.

Failure to check compatibility, ensure proper installation, operation and maintenance of components or accessories can result in serious injury or death.

Performance optimisation (retrofit) is illegal. According to the German Road Traffic Permit Ordinance (StVZO), EPACs with motors that can accelerate a bicycle beyond 25 km/h are considered motor vehicles and therefore require a driver's licence of class AM/B. The manufacturer does not have a licence to sell motor vehicles. For example, S-Pedelec. As a result, performance optimisation can have the following effects on you:

- The manufacturer's declaration of conformity is invalidated.
- Warranty or liability for defects cannot be claimed.
- Driving without a licence can result in a fine.

Qualifications of Persons Using This Product

These instructions apply to trained bicycle riders. The bicycle rider must have the following knowledge and experience:

- Have been instructed in the use of the bicycle by a professional dealer.
- Know that improper use of the bicycle can lead to accidents.
- Know how to use the bicycle according to these instructions

Personal protective equipment

- Serious injury or death is possible when riding a bicycle.
- Always wear an approved helmet when riding and follow the manufacturer's instructions in the corresponding manual regarding the adjustment, use and care of the helmet.
- Always wear sturdy shoes with non-slip soles (e.g. profiled rubber soles).
- Preferably always wear gloves.
- Always wear tight-fitting clothing to avoid getting caught in the bike or on objects on the side of the road or path.
- Always wear (clear) glasses that protect against dirt, dust and insects.
- Always wear tinted glasses when the sun is shining.

Basic security instructions

Wear a helmet



Always wear a bicycle helmet that meets the latest certification standards and is suitable for your rides. Always follow the helmet manufacturer's instructions for fitting, using and caring for your helmet. Most serious bicycle injuries involve head injuries that could have been avoided if the rider had worn an suitable helmet.

RIDING SAFETY

Obey all rules of the road and all local traffic laws.

You share the road or path with others - motorists, pedestrians and other cyclists. Respect their rights.

Ride in a defensive manner. Always assume that others are not aware of you. Always look ahead and be prepared to avoid problems from the following situations:

Vehicles slowing down, turning, turning into the road or lane in front of you, or coming up behind you.

- The doors of parked vehicles being opened.
- Pedestrians who appear.
- Children or pets playing near the road.

Avoid serious injury or death due to mechanical defects and incorrect use of the bicycle.

- Always carry out a safety test (see Riding your bike section) before riding your bike.
- Familiarise yourself with the brakes, pedals and gears before riding.
- Always ride at a speed that corresponds to the riding conditions.

Avoid electric shock or explosion due to improper handling of the battery and charger. Never open the electric motor, battery or other components!

Incorrect handling of the battery and charger can result in an electric shock or explosion. This can result in serious injury or death.

- Only use the battery contained in the package.
- Never connect the positive pole to the negative pole of the battery.
- Protect the battery from direct sunlight.
- Do not disassemble the battery.
- Only use the charger included in the package to charge the battery.
- Only use the charger indoors.
- The charger plug is the disconnecting device from the mains supply. Ensure that the socket is located near the charger and is easily accessible.
- Only use the charger with an earthed 220 V mains socket.
- Keep the metal contacts clean; if necessary, clean them with a soft, dry cloth.
- Do not charge a battery with visible damage, e.g. a broken casing.
- Do not use a battery with visible damage, e.g. a broken casing.
- Do not drop the battery.
- Charge the battery in a temperature range between 10°C and 30°C.
- Ensure that chargers are not used by people with physical, sensory and intellectual impairments.

Avoiding fires and explosions

Never clean your bicycle and its components with a water hose, high-pressure cleaner or steam cleaner!

Moisture, electrically conductive dirt or mechanical damage may cause a short circuit. This may result in the battery catching fire or exploding.

- Only clean the electric motor and the control unit from the outside with a moist sponge. Never use a high-pressure cleaner.
- If you accidentally immerse these components completely in water, disconnect the motor from the battery immediately and do not put it back into operation until it has been checked by the manufacturer.

Avoid serious injuries due to body parts coming into contact with the components of the bicycle. There is a risk of injury when reaching into the chain drive. Never touch the chain drive while riding.

- When riding, parts of the body or other objects may come into contact with the sharp teeth of the chain wheels, the moving chain, the rotating pedals and cranks and the rotating wheels of the bicycle. This can result in serious injury.
- When riding, make sure that your body parts do not come into contact with the mentioned bicycle components.

Avoid serious injuries due to damaged components

When riding off-road or over kerbs, the electric motor, crank or bottom bracket can touch down and be damaged. This can result in serious injury.

- Only use the bike on authorised paths.
- If there are obstacles, step off and lift off the bike.
- If the bike is damaged, have it checked by a specialist dealer.

Avoid riding in wet weather

Wet weather affects traction, braking and visibility, both for the cyclist and for other vehicles on the road. The risk of an accident is extremely high in wet conditions.

In wet conditions, the braking performance of your brakes (as well as the brakes of other vehicles on the road) is drastically reduced and your tyres will not grip nearly as well. This makes it harder to control your speed and easier to lose control. To ensure you can slow down and stop in wet conditions, ride at a lower speed and brake earlier and more gently than in normal, dry conditions.

Wet weather can reduce the grip of the rider's feet on the pedals. If your feet slip off the pedals, a fall may occur.

Avoid serious injury or death in twilight or at night

Cycling at night is much more dangerous than cycling during the day. A cyclist is very difficult for motorists and pedestrians to recognise. Therefore, teenagers should never ride at dusk or at night. Adults who have decided to take on the greatly increased risk of riding at dawn, dusk or at night must take extra care and use special equipment to reduce this risk. Consult your dealer for safety equipment suitable for night riding.

- Drive slowly and carefully, but preferably on familiar routes.
- Avoid dark areas or heavy traffic.
- Be predictable in traffic, ride defensively and be visible to others.
- Expect the unexpected conditions, especially in the dark and in poor weather conditions.
- Continue to learn about cycling safety through literature or lessons.

Avoid serious injury or death due to damaged, bent or loose reflectors and lights

Bicycle reflectors catch the light from street lamps and car headlights and reflect it so that you can be recognised as a cyclist. Damaged, bent or loose reflectors can make it difficult for other road users to recognise you.

This can result in serious injury or death.

- Check reflectors and their brackets regularly.

Have damaged, bent or loose reflectors replaced by your specialist dealer.

Avoid serious injury if driving off-road or over a kerb when driving on uneven terrain!

Riding off-road at inappropriate speeds or over curbs may result in falls. In serious cases, this can result in injury or death.

- Always travel at a speed appropriate to the surrounding conditions.

Avoid serious injury or death by replacing components or adding accessories

There are numerous components and accessories available that can improve the comfort, performance and the appearance of the bicycle. The addition of components or accessories is at your own risk. These components or accessories may not have been tested by the manufacturer for compatibility, reliability or safety. Unconfirmed compatibility, reliability or safety as well as improper installation, use and maintenance of components or accessories and maintenance of bicycle components or accessories can lead to serious injury or even death.

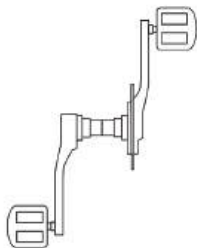
- Always consult your specialist dealer before installing, using and maintaining the component.
- Always read and follow the enclosed instructions for use of the accessories.

Avoid serious injury due to incorrect maintenance, care and cleaning

Incorrect maintenance, care and cleaning can lead to injury or even death.

- Only carry out the activities listed in the maintenance instructions.
- Only use commercially available lubricants and cleaning products.
- Have other maintenance work and repairs carried out by a qualified specialist dealer.

Leg Injury Warning



Too little or too much pedal clearance can cause damage to the legs. This may be due to not installing the crankset properly. If the pedal assembly makes riding uncomfortable, please contact the manufacturer and replace the crankset if necessary.

Vibration Warning

Improper installation, wear and tear, overloading or parts loosening can cause the motor to stop running.

- Use the bicycle only on authorised roads.
- Before each trip, check that the drive operates smoothly.
- If there are cracks, rubbing noises or visible damage, please contact the specialised dealer for repairs.

Vibration

During normal use, the vibration value of the handarm system is 2.5 m/s^2 and the vibration value of the entire bicycle body is 0.5 m/s^2 . If you feel discomfort due to strong vibrations caused by changes in the road surface, please adjust the speed accordingly.

Noise

The A- rated emission sound pressure level does not exceed 70 dB(A).

Avoid disease

Long and frequent sitting on the saddle can potentially cause prostate disease in men.

- Install a saddle (if necessary) suitable for female/male ergonomics.
- If necessary, go for preventative care.

Avoid dehydration from cycling

Cycling is a strenuous physical activity.

- Always make sure you are adequately hydrated.

Avoid freezing temperatures

Cycling in cool or cold temperatures can lead to freezing.

- Always wear appropriate clothing, including face protection, in cool or cold temperatures.

Avoid falls due to sudden start of electric motor assistance

There is a risk of losing control and falling due to the sudden start of electric motor assistance.

- Always test the electric motor assistance before your first ride.
- Always wear personal protective equipment (PPE).

Avoid poisoning

Damaged bicycle components (e.g. batteries, electrical or electronic components) may emit material or vapours. This can result in poisoning of the environment.

- Dispose of used batteries and the electrical or electronic components of the bike in accordance with the legal requirements.
- Observe the manufacturer's instructions for these products.

Safety Instructions of Batteries

- Do not open the battery.
- Protect the battery from heat (e.g. prolonged exposure to sunlight), fire and water. Do not store or operate the battery near hot or flammable objects.
- Keep unused batteries away from paper clips, coins, keys, nails, screws or other small metal objects that could cause the contacts to connect.
- Avoid mechanical force, impact or overheating.
- Do not place the charger and battery near flammable objects. Charge the battery only in a dry and fireproof place.
- Do not charge the battery unattended.
- If used improperly, liquid may seep out of the battery. Please avoid contact. In case of accidental contact, rinse with water. If liquid gets into the eyes, seek additional medical assistance.
- Charge the battery only with a suitable original charger.
- Use the battery only with an appropriate original drive system.
- Keep the battery away from children.
- Never transport the battery by yourself! The battery is a dangerous good. Under certain circumstances, it may overheat and catch fire.

Safety Instructions of Charger

- Keep the charger away from rain and moisture.
- Charge only approved and appropriate batteries.
- Keep the charger clean.
- Inspect the charger, cable and plug before each use. Do not use the charger if any damage is found. Do not open the charger.
- Do not operate the charger on extremely flammable surfaces.
- The charger is not intended for use by children or persons lacking experience or knowledge due to physical or mental reasons.

Charging the battery

Risk of the battery exploding if the wrong charger is used. This can result in serious or even fatal injuries.

- Only use the charger supplied.
- Observe and follow the instructions in the charger manual.
- The battery must be charged in a temperature range between 10°C and 30°C.

Charging the battery when it is removed from the charger generally results in a slightly longer battery life as the heat generated during the charging process can be released more easily into the air.

You can charge your battery in two ways. By inserting the battery into the bike frame and by removing the battery from the bike frame.

Charging with the battery inserted

You can charge the battery directly at the charging port of the battery without having to remove it.

Charging with the battery removed

To charge the battery, proceed as follows:

- Remove the battery from the holder.
- Ensure that the battery has no visible damage, e.g. a broken casing.
- Place the battery on a non-flammable surface, e.g. ceramic.
- Pay attention to and follow the instructions in the charger manual, if this is enclosed separately.
- Plug the charger jack-plug into the charging port provided on the battery.
- The charging process takes about 6-7 hours. When the charging light is green, the battery is charged.
- Disconnect the mains plug from the wall socket.
- Remove the jack plug from the battery charging port.
- Place the battery back in the holder.

Operating the brakes

Brakes are there to control speed and not just to stop the bike. The maximum braking force of the wheels is available just before the wheels 'lock' (come to a standstill) and then slip. As soon as the tyre slips, you lose most of the braking power and all control of the bike. You need to practise braking and stopping gently and without locking the wheels. This technique is called progressive brake modulation.

Your bike is equipped with front and rear brakes. The function of the left brake lever is the front wheel brake and that of the right brake lever is the rear wheel brake.

Pull the brake lever towards the handlebars and gradually increase the braking force.

If you feel that the wheel is locking, reduce the braking force so that the wheel can just continue to turn and does not lock.



Adjusting the brake force



There is an adjustment screw on each of the brake levers with which the tension of the brake cable can be readjusted. Turn this adjusting screw anti-clockwise to increase the tension and clockwise to reduce the tension. There is a locking nut on the adjusting screw which prevents the setting from changing by itself.



WARNING

► Driving with incorrectly adjusted brakes, worn brake pads or wheels with visible rim wear marks is dangerous and can lead to serious injury or death.

► Braking too hard can lock a wheel, which may cause you to lose control and fall.

Sudden or excessive application of the front brake can throw the rider over the handlebars, resulting in serious injury or death.

► Some bicycle brakes, such as disc brakes and linear-pull brakes, are extremely powerful. Familiarise yourself carefully with these brakes and take particular care when using them.

Some bicycle brakes are equipped with a brake force regulator, a small, cylindrical device through which the brake cable runs and which causes the braking force to be applied progressively. Such a brake force regulator makes the initial brake lever force gentler, with progressively increasing force until full braking power is achieved. If your bike is fitted with a brake force regulator, you should take particular care to familiarise yourself with its performance characteristics.

Some brake force regulators are adjustable. If you like the setting of your brakes, please consult your dealer about adjusting the brake force regulator.

Disc brakes can become extremely hot during prolonged use. Do not touch the disc brakes until they have cooled down.

Follow the brake manufacturer's instructions for the operation and maintenance of your brakes and in the event that brake pads need to be replaced. If you do not have the manufacturer's instructions, contact your dealer or the brake manufacturer.

Only use original spare parts authorised by the manufacturer to replace worn or damaged parts.



Brake controls and functions

It is very important for your safety that you realise which brake lever on your bike controls which brake. Traditionally, the right brake lever controls the rear brake and the left brake lever controls the front brake. To make sure that the brakes on your bike are actually set in this way, press one brake lever and see which brake is actuated, front or rear. Do the same with the other brake lever.

Make sure that your hands can easily reach and operate the brake levers. If your hands are too small to operate the levers comfortably, contact your dealer before you ride the bike. It may be possible to adjust the lever range, otherwise you may need a different brake lever design. Most disc brakes have some form of quick release mechanism to allow the brake pads to release the tyre when a wheel is removed or refitted. If the brake quick release is in the open position, the brakes will be inoperative. Consult your dealer to ensure that you understand how the quick release works on your bike and check the function each time before riding to ensure that both brakes are working correctly.

How brakes work

The braking performance of a bicycle is a function of the friction between the braking surfaces.

To ensure that maximum friction is always available, keep your rims and brake pads or disc rotor and caliper clean and free of dirt, lubricants, waxes or polishes.

Brakes should control your speed, not just stop the bike. The maximum braking force for each wheel occurs just before the moment the wheel 'locks up' (stops turning) and begins to slip. Once the tyre slips, you actually lose most of your braking power and all directional control. You need to practise braking and stopping without locking a wheel. This technique is called progressive braking modulation.

Instead of pulling the brake lever to the position where you expect to generate adequate braking force, apply the lever to progressively increase the braking force. If you feel that the wheel is starting to lock up, release the pressure slightly so that the wheel continues to turn only just before the locking limit. It is important to develop a feel for the brake lever pressure required for each wheel at different speeds and on different surfaces. To better understand this, try experimenting a little with the bike and apply different pressure to each brake lever until the wheel locks up.

When you apply one or both brakes, the bike will start to slow down. If you now continue to lean your body forwards as if you were riding at the previous speed, this can cause your weight to shift onto the front wheel (or around the front wheel hub under heavy braking, which could send you flying over the handlebars).

A wheel with more weight absorbs more brake pressure before locking, while a wheel with less weight locks with less brake pressure. So when you apply the brakes and your weight is shifted forwards, you have to shift your body backwards to transfer the weight back to the rear wheel. At the same time, you must both reduce the rear wheel braking force and increase the braking force on the front wheel. This is particularly important on downhill sections, as descents shift your weight forwards.

Two keys to effective speed control and safe stopping are controlling wheel lock-up and weight transfer.

This weight transfer is even more effective if your bike has a front fork with suspension. The front suspension 'dips' when you brake and thus increases the effect of weight transfer (see also 'Bicycle suspension'). Practise braking and weight transfer techniques when there is no traffic or other dangers and distractions around you.

Everything is different when you ride on uneven surfaces or in wet conditions. Stopping distance is longer on uneven surfaces or in wet weather. The tyre's grip is reduced so that the wheels have less cornering and braking traction and can lock up with less braking force.

Moisture or dirt on the brake pads reduces their grip. To maintain control on uneven or wet surfaces, you need to brake more gently.

Transport

Do not transport any objects that could restrict your vision or prevent you from fully controlling the bicycle or that could catch moving parts of the bicycle.

When transporting bicycles, there is a risk that the bicycles could tip over, slip or fall out of the means of transport. This could result in serious injury. When transporting bicycles in vehicles or public transport, the bicycles should be secured to prevent them from tipping over, slipping or falling out.

Use an approved, commercially available bicycle rack for vehicles to transport bicycles. If you do not have a bicycle rack, the bicycles must be placed in the trunk, making sure that the bicycles do not rest on the rear derailleur.

Lithium-ion batteries are subject to numerous regulations and are often considered dangerous material by carriers. Inquire about the relevant laws and ask the carrier for authorisation before shipping or transporting a lithium-ion battery by air.

Storage

If you store your battery for a longer period of time (longer than two months):

Remove the battery from the bike.

Lithium-ion batteries are best stored at a charge level of 40%-60%.

Charge the battery to 40%-60% every 30 days during long-term storage. Determine the charge level using the integrated charge indicator on the battery or the battery indicator on the bike. Batteries discharge slowly if they are not used for a long time. If the battery capacity is allowed to reach a critically low voltage, its service life and capacity will be permanently reduced.

Always disconnect your charger from the socket and the battery before storing the battery. Avoid storing your battery in extreme temperatures, either hot or cold.

Batteries are best stored in a shady and dry place. Do not allow accumulation of condensation as this could lead to corrosion or a short circuit.

The recommended storage temperature for lithium-ion batteries is between 0-25°C (32-77°F).

Caring for an electric bike

Maintain your batteries as described in the section 'Battery care and safety'. This is particularly important if batteries are not used for a long period of time.

Regularly check the cables and electrical connections of your bike for damage. Frayed or heat-damaged cables, loose plugs or poor connections might damage the system.

Store your bike indoors. The condition of a bicycle that is exposed to the weather outdoors will deteriorate very quickly. Never cover a stored bike with plastic, as condensation could damage electrical components.

Batteries in particular should be stored in a temperature-controlled, dry environment.

Read all manuals for the components and be careful before using chemicals, paints or cleaning products on the bike's electrical components.

Battery Maintenance

To avoid shortening the lifetime of the battery, please follow the steps below:

- Charge the battery after riding when the charge is between 30 % and 40 %.
- Make sure that the battery is not completely discharged.
- Fully charge the battery before storing it for an long period of time.
- Store the battery in a dry place with low levels of humidity.
- Keep the temperature between 5 °C and 20 °C.
- Do not expose the battery to direct sunlight or high temperatures, e.g. in a warehouse.
- Make sure that stored batteries are charged at least once a month. Make sure that stored batteries are fully charged at least once every 3 months.

Motor and Control Maintenance

Moisture, dust or mechanical damage can cause a short circuit. This may cause the battery to catch fire or explode.

- Clean the outside of the motor and control unit only with a moistened cloth.
- If parts are accidentally completely immersed in water, disconnect the motor from the batteries immediately and re-commence operation after inspection by the manufacturer.
- Follow the relevant manufacturer's instructions.

Riding

Do not use it until you have carefully read the instructions and understood the performance of the product; do not lend it to anyone who cannot manipulate the product for riding. Before riding the bike, check that the brakes are working. When braking, please activate the rear wheel brake first and then the front wheel brake. Make sure that the brakes are tight. If the brakes are too loose, tighten them with an Allan key. When riding in the rain or snow, make sure to increase the braking distance.

Applicable age: Riding between 16 and 65 years.

Please always wear a helmet when riding your bike, obey the traffic rules and do not ride on motorway and roads with lots of pedestrians. Please check the tyre pressure before riding.

The recommended tyre pressure is 16-18 PSI.

When riding downhill and on unpaved roads, ensure that the speed does not exceed 15 km/h. When using the motor, be careful not to hit it too hard and keep the rotation shaft lubricated. It is not allowed to ride with more than the maximum body load (the maximum load is 245KG) After use, the bike cannot be parked in the building hall, evacuation stairs, safety exits, and must be properly parked in accordance with the safety rules.

Legal Requirements

If you want to ride your e-bike on public roads, you must equip it in accordance with national regulations.

Legally, our 25 km/h models are treated in the same way as bicycles and are therefore subject to the same regulations. In Germany, these issues are regulated by the Road Traffic Permit Ordinance (StVZO) and the Road Traffic Ordinance (StVO).

- Bells
- Two independently operating brakes
- One white headlight at the front
- White reflective front spotlight
- Red light
- Red reflector at the rear of the bicycle
- Yellow reflectors at the front and rear of the pedals
- Two yellow reflectors offset by 180° on the spokes of each wheel or a continuous white reflective stripe in a ring on the tyre.

Pre-ride Inspection Steps:

- The quick release/centre shaft is securely installed and closes securely.
- Screw connections are neither loose nor rattling.
- The handlebars are securely fastened.
- Wheels and tyres turn easily and run smoothly.
- The tyres are checked for air pressure and condition and the valves are correctly in place.
- Front and rear lights work properly and have been correctly adjusted.
- Brake levers have clear points of tension.
- Brake pads and discs are undamaged and free of oil. They should also be checked for wear.
- The battery must be securely in place when inserted. The battery must engage in the lock and make a clicking sound.
- The permissible total load weight is not exceeded.
- Lights and reflectors are not covered.
- Battery is charged
- Saddle is securely fastened and correctly adjusted
- Pedals are securely fastened

Check the Tyre Air Pressure

You can find the permissible tyre inflation pressure on the side of the tyre. We recommend using a bicycle floor pump with a pressure meter to check and correct the tyre inflation pressure.

Notes for Schrader valves:

- Unscrew the plastic nut from the valve head.
- Press the valve end gently towards the rim. If there is pressure in the tyre, you will hear air releasing.
- When the inflation process is finished, tighten the plastic nut again.

Delivery Details

- Bicycle incl. battery
- Battery charger
- Two keys (keep spare in a safe place) for battery removal
- Printed copy of the operating manual
- Handlebar (not installed)
- Front Frame (not installed)
- Seatpost and saddle (not installed)
- Front Basket (not installed)
- Tyres (not installed)

- Mudguard (not installed)
- Headlight (not installed)
- Assembly Tools
- Pump
- Lock
- Canvas basket

Unpacking

The shipping carton is sealed with metal clips. There is a risk of injury when opening and crushing the packaging.

- Open the box
- Remove the bicycle and **all** accessories from the box.
- Check the scope of delivery
- Dispose of the packaging material in accordance with local guidelines and regulations.

PRODUCT FUNCTION DIAGRAM



Figure 1 (Whole vehicle diagram)

Note: The product upgrade may cause the actual product you receive to be different from the sample in the photo, please don't worry, the specific functions are the same and will not affect your normal use.

- | | | |
|-----------------|-----------------|-----------------|
| 1. Display | | 8. Pedal |
| 2. Handlebar | 5. Front Fender | 9. Battery |
| 3. Front Basket | 6. Front Fork | 10. Rear Fender |
| 4. Headlight | 7. Brake Disc | 11. Rear Basket |
| | | 12. Saddle |



Assembly instructions

Parts Description



X13 Parts

1. Front Wheel
2. Basket
3. Rear Fender * 2
4. Fender Bracket * 2
5. Front Fender
6. Saddle
7. Accessory box

Note: We recommend 2 people to install this product.



Accessories in the accessory box:

1. Bicycle Pump + Lock
2. User Manual
3. Headlight
4. Pedals
5. 16 in 1 tools
6. Charger
7. 16#-18# Wrench
8. 17#-19# Wrench
9. 8#-10# Wrench

1. Steering Column



1. Open the bracket on the lower column and loosen the clamping ring.
2. Adjust the position of the steering wheel via the clamping ring, and insert the upper protrusion into the middle sleeve.



3. Lift the column and flip the fixing lever to clamp it tightly.



4. Install the telescopic column in the corresponding position.



5. Secure the adjustment buckle.

2. Frame Deployment



1. Lift the front part of the frame and manually press the front half of the frame inward into place.



2. Close the bracket.



3. Secure the lock catch.

3. Front Wheel Installation



1. Loosen the lock nuts on both sides of the wheel to leave a gap between the washers inside the nuts and the hub for the front fork bracket to fit in.

2. Install the front fork and align it with the front wheel axis.

3. As shown in the figure, insert the safety hooks on the hub into the safety holes on the hub.

4. Use a 15mm open-end wrench to sequentially tighten the nuts on both sides of the front wheel clockwise.



4. Front Fender Installation



1. Use a 5mm hex wrench and a 10mm open-end wrench to remove the fixing screws on the front fork suspension frame.



2. Align the mounting holes on the fender boss with the holes on the front fork bracket.



3. Secure it with screws as shown in the figure.



4. Use a 5mm hex wrench and a 10mm open-end wrench to tighten the screws.



5. Use a 5mm hex wrench to remove the screws on the front fork fender fixing strip.



6. Align the fixing holes of the fender with the holes on the front fork.



7. Screw the screws all the way in and tighten them firmly.



8. Installation is complete.

5. Front Basket Installation



1. Use a 5mm hex wrench to loosen the basket screws on the front fork.



2. Use a 10mm open-end wrench and a 5mm hex wrench to fix the screws on the basket.



3. Align the headlight with the mounting holes of the basket, screw in the screws, and then install the washers and nuts in sequence.



4. Use a 10mm open-end wrench and a 5mm hex wrench to fix the headlight on the basket.



5. Align the mounting holes of the front basket with the basket fixing parts on the front fork, and pre-fix them with a 5mm hex wrench.

6. As shown in the figure above, use a 5mm hex wrench to tighten the four fixing screws of the basket diagonally.

7. As shown in the figure above, connect the waterproof cable of the headlight to the bracket.
 8. Pass the cable tie through the S-shaped buckle under the bottom plate to fix the headlight cable on the basket.
 9. Use scissors to cut off the excess part of the cable tie.



6. Rear Fender Installation



1. Use a 4mm hex wrench to remove the fixing screws on the fender bracket.
2. Place the fender above the bracket, and use a 4mm hex wrench to fix the fender on the bracket with screws. Please note that the installation direction of the fender requires the inner and outer nuts to face each other!



3. Use a 10mm open-end wrench and a 5mm hex wrench to fix the screws on the frame.
4. Adjust the installation height, then use a 4mm hex wrench to fix the panel bracket.

7. Seat Installation



1. Open the quick-release buckle switch.



2. Insert the seatpost into the base.



3. Secure the quick-release buckle.



4. Seat installation is complete.

8. Pedal Installation



1. Take out the complete set of pedals. The tail and axle of the pedals are marked with letters "R" and "L", where R stands for the right side and L stands for the left side.



2. Align the axle of the left pedal with the L mark on the left crank hole, then hand-tighten it counterclockwise.
3. Use a 15mm open-end wrench to tighten the pedal.



4. Align the axle of the right pedal with the R mark on the right crank hole, then hand-tighten it clockwise.
5. Use a 15mm open-end wrench to tighten the pedal.

9. Battery Disassembly



1. Turn off the instrument as shown in the figure.
2. Open the quick-release buckle of the seatpost.
3. Remove the saddle from the seatpost as shown in the figure.

4. Insert the key as shown in the figure and rotate it 180° counterclockwise. The battery lock is unlocked.
5. As shown in the figure above, lift the battery with both hands and take it out.
6. The battery is in the removed state.



10. Battery Installation



1. As shown in the figure, press the battery with both hands and insert it into the mounting slot on the crossbeam.
2. Insert the key as shown in the figure and rotate it 180° clockwise. The battery lock is locked.
3. Open the quick-release buckle.

4. Insert the seatpost into the base.
5. Secure the quick-release buckle.
6. Press the switch as shown in the figure to turn on the instrument display.





Function introduction:



(Picture 1)



(Picture 2)



(Picture 3)

1. Charging: Unscrew the plastic cover on the battery (Picture 1), connect the charger to start charging, when the battery is full and the indicator light of the charger changes from red to green, it means it is fully charged.
2. Power on: refer to Picture 2, turn on the battery switch; refer to Picture 3, press and hold **O/M** button to turn on/off .
3. Power display: After powering on, the dashboard lights up to display the power, and the power is divided into 5 grids.
4. Headlight: When switched on, briefly press the **+/D** button to switch on the front light. Press and hold again to switch off the front light.
5. Start: power-assisted riding, short press **-/L** to adjust to 1st gear after power on, step on the bicycle sprocket, start the motor to assist. If motor assistance is not required, turn off the power or turn off the battery or set the gear to 0.

Motor

The motor provides you with power when you pedal. You can set the required speed level via the display. The maximum assisted speed of an electric motor is 25 km/h.

Battery

The electric assist transmission requires a battery for energy support. The battery is located under the frame. The battery can be charged by removing it from the frame using a suitable spanner.

Only use the supplied charger to charge the battery. The battery is equipped with the following connections and indicators:

- Charging socket
- Switch button
- Lock for locking the battery

Lithium-ion batteries are classified as dangerous goods according to transport regulations. If the battery is installed in a bicycle, transport by water and road is permitted. (Please check your local transport regulations). Defective batteries must not be transported and must be disposed of properly!

Control Display

The control display is installed on the handlebars. The maximum effective speed for the speed display function is 25 km/h. Higher speeds cannot be displayed. Do not set the display parameters yourself. If the parameters are set incorrectly, the electronics may malfunction, making the bicycle unusable. In this case, please contact the manufacturer.

Riding in Assist Mode

If you have never ridden an electric assist bicycle before, you should first practice riding in Assist Mode on a road clear of traffic. The Assist only starts when you pedal. Sit on the saddle before you start pedaling. Start with the lowest level of Assist Mode and practice normal riding situations such as

- Starting
- Accelerating
- Braking
- Cornering.

When you stop pedaling, the Pedal Assist still provides support for a short time. Therefore, you should stop pedaling earlier than you would on a bike without Assist Mode.

Riding in Normal Bicycle Mode

You can also use the bicycle without an assistance power. Simply switch off the display or set the speed gear to 0 on the display. In this way, you can use the bicycle as if it were unassisted, e.g. when the battery is running out.

PRODUCT PARAMETERS

Outlook & Dimension	Parameter	Standard Version
	Body Material	Aluminum
	Color	Black/Orange
	Unfolding Size	176*88*122CM
	Hub Form	Spoke Wheel
	Wheel Size	20 inches
	Package Size	105*83*79CM
Performance Parameters	Gross/net weight	55.5kgs(122.36lbs)/46.5kgs(102.51lbs)
	Maximum Load	120kgs(264.55lbs) (front basket 25kgs(55.12lbs) rear basket 100kgs(220.46lbs)
	Maximum Speed	25km/h (15mph)
	Mileage	60km-80km Affected by load, temperature, road conditions, riding mode, etc. E.g: (At 75kg and 25 °C, the maximum range of 40 km in PAS mode, range depends on load and riding style)
	Maximum Climbing Angle	8 degrees
	Proper Temperature	-20~40°C
	Waterproof Level	IPX4
Electrical Specifications	Battery Type	21700 lithium ion power battery
	Battery Capacity	15Ah(720Wh)
	Battery Rated Voltage	48V
	Motor Rated Power	0.25kW
	Motor Form	Direct Drive
	Motor Type	20 inch/Brushless DC Motor
	Charger Output	54.6V 2.0A
	Charger Input	110-220V
	Undervoltage Protection Value	40V±1V
	Overcurrent Protection Value	25A±1A
	Charging Time	7-8 hours

Features	Instrument Display	LED
	Front Lighting	YES
	Braking Method	Front disc brake + Rear disc brake
	Tire Specifications	Pneumatic tires
		Tire: 20×4.0
		Air Valve: 20×4.0 The inner tube valve is AV
Front Fork	Shock-Absorbing Fork	
Gear	Single speed	

NOTE ON RANGE:

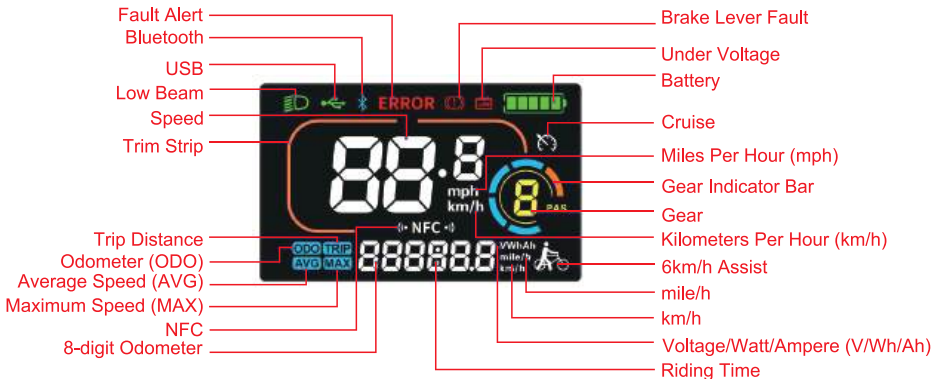
A pedelec is a bicycle with gradually switchable electric assistance. The range of a battery charge depends greatly on various factors. For example, it drops significantly under the following conditions:

- Longer or continuous riding with a high level of assistance
- Rapid riding style with frequent strong accelerating
- Many slopes and sandy or clayey surfaces
- Higher user weight
- Tyre pressure too low or insufficiently lubricated chain
- Low surrounding temperature.

Direction for use

1. Display Interface Description

1.1 Ride Interface



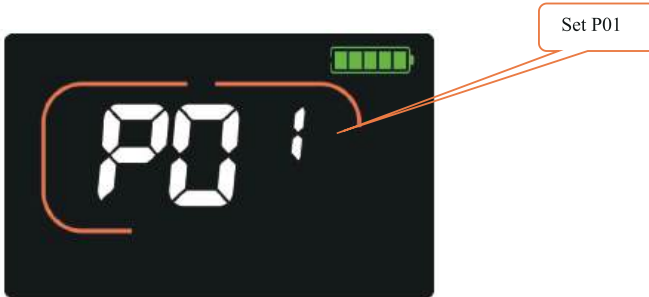
Feature Introduction:

- Status: Displays real-time status including Bluetooth, headlights, brakes, low voltage, steering, cruise control, and drive status.
- Battery level: Shows remaining battery power.
- Multifunction display area:

Total odometer (ODO), single trip distance (TRIP), maximum speed (MAX), average speed (AVG),

Cycling parameters: TIME, VOL, POWER, CURRENT;
- Shift assist: 3/5/9 gears (3 modes available);

1.2 Settings



Caption: Settings: P01

1.3 Fault Interface



Caption: Error: ERROR flag, E10 indicates the error code

2. Key Instructions


The SWK2 key combination is shown below



The SW-G518 instrument is equipped with three buttons. For ease of description, the following text is used as an alternative to the original instructions.

 Plus/Headlight Button

 Power/Mode Button

 Minus/Boost Button

Use alternative descriptions for corresponding buttons in subsequent descriptions.


3. Operation Declaration


The button operation instructions are as follows:

Long press: indicates a key press duration longer than 2 seconds;

Short press: indicates a button press duration of less than 0.5 seconds;



3.1 Startup & Shutdown

Instrument Power-On: When the instrument is powered off, press and hold the  to display the power-on interface. The system will then automatically enter the riding mode and begin operation. (Password protection is available; enter the password during power-on)

Instrument Power-Off: Press and hold the  while the instrument is powered on to turn it off. If the device has been used for 10 minutes of riding...

If the user does not operate the instrument (speed 0), it will automatically enter sleep mode. The sleep duration can be adjusted in the menu settings.

3.2 Assist Shift


Press the  or  to switch the assist level and change the assist mode.


The default is 5 levels: 0/1/2/3/4/5. Display 0 means no assist level.

3.3 Display Switch



When the device is on, press the  for a short time to switch between the total mileage, single mileage, cycling time and other information.

3.4 Headlight Switch

Turn on headlights: Short press the  to turn on headlights (if you do not want to control headlights directly from the instrument, the controller needs to support it). The instrument display interface and the headlight indicator icon will light up.

Turn off headlights: Short press the  again to turn off the headlights and the headlight indicator icon will be extinguished.








3.5 Boost Mode

Start boost mode: Under the riding surface, press and hold  to enter the boost mode. After pressing and holding , enter the push mode, the boost icon is displayed, and the speed position displays the real-time speed.

Contact push mode: Release  to exit the push mode and the push icon disappears.

4. Description

4.1 Set Operation Instructions:

- ① Go to the Settings menu: When the device is on, hold down the   to enter the parameter setting interface. You can set the following parameters: voltage, wheel diameter (inches), number of magnets, speed limit, etc.
- ② Adjust parameters: In the settings interface, you can press the  or  to adjust the settings. The parameters will flash after modification. After selecting the desired value, press the  to save and switch to the next setting parameter.
- ③ Save and exit the settings menu: After modifying the parameters, press and hold   to exit the menu. Save the modified parameters. If no key is pressed the system will save the changes after 10 seconds. will auto
Exit the menu and save the modified parameters.

4.2 Parameter Settings:

- P00: Reset factory settings (optional);
- P01: Backlight brightness. Level 1 is the darkest, and Level 3 is the brightest.
- P02: Mileage unit. 0: KM; 1: MILE;
- P03: Voltage level. 24V-72V, default 36V;
- P04: Sleep time. 0: No sleep; other numbers are sleep time. Range: 1-60 minutes;
- P05: Pedal Assist Level 0-3 Mode: Level 0 to Level 3;
- P06: Wheel diameter. Unit: inch; Precision: 0.1;
- P07: Number of speed-detecting magnets. Range: 1-255;

- P08: Speed limit. Range: 0-100 km/h. Communication status (controller control): The driving speed is maintained at the set value, with an error margin of ± 1 km/h. (Both power-assist and handlebar speed limits are applied.)

Note: This value is based on kilometers. When the unit is set to miles, the displayed speed value will automatically convert to the correct miles value. However, the speed limit value set in this menu under the miles interface remains unchanged.

If not converted, the displayed speed limit value in miles per hour will not match the actual speed limit.

- P09: Zero-start and non-zero-start settings. 0: Zero-start; 1: Non-zero-start;
- P10: Drive mode setting
 - 0: Power Assist (determines assist level through gear selection, with the handlebar deactivated);
 - 1: Electric drive (via handlebar control, with power-assist mode disabled);
 - 2: Coexistence of manual and electric drive (electric drive is invalid when starting from zero);
- P11: Assist in sensitivity setting. Range: 1-24;
- P12: Enable start-up intensity setting. Range: 0-5;
- P13: Assist in setting the type of magnetic disk. Three types of magnetic disks: 5, 8, and 12.
- P14: Set the controller's current limit. Default value: 12A range: 1-20A;
- P15: Instrument under-voltage value.
- P16: ODO reset. Hold the up button for 5 seconds to reset ODO.
- P17: Cruise control function. 0: No cruise control 1: Cruise control (optional);

Error codes and troubleshooting solutions

Error code	Code meaning	Inspections
E00		Normal Status
E06	Battery Undervoltage	Check that the battery is fully charged. If this error code still appears after a full charge you need to replace the battery.
E07	Motor Failure	Check the rear wheel motor wiring for damage, if the error code still appears after replugging or damaged, the motor will need to be replaced.
E09	Controller Failure	Check all wiring on the controller for damage, if the error code still appears after replugging or damaged, the controller will need to be replaced.
E10	Communication Receiving Failure	<ol style="list-style-type: none"> 1. Check whether there is any damage in the display wire. 2. Check whether the controller and display plug connection is intact. 3. Unplug the power sensor to see if it reports error, not report that is the sensor short-circuit damage, need to replace the sensor. 4. Unplug the motor line to see if the error, not reported that the motor hall short circuit damage, need to replace the motor to solve the problem. 5. The above can not solve the problem with the replacement method, replace the controller or display to troubleshoot the problem.
E11	Communication Sending Failure	<ol style="list-style-type: none"> 1. Check whether there is any damage in the display wire. 2. Check whether the controller and display plug connection is intact. 3. Unplug the power sensor to see if it reports error, not report that is the sensor short-circuit damage, need to replace the sensor. 4. Unplug the motor line to see if the error, not reported that the motor hall short circuit damage, need to replace the motor to solve the problem. 5. The above can not solve the problem with the replacement method, replace the controller or display to troubleshoot the problem.

Serial number	Common problems	Solution
1	The tyres are leaking.	<p>1. We recommend deflating the tyre first and then inflating it with professional equipment</p> <p>2. If still leaking, the inner tube needs to be replaced. We can supply the spare parts and let the customer replace it according to our video.</p>
2	Brake noise	<p>Firstly, please find out where the noise is coming from.</p> <p>1. The noise comes from the tyre brake area -> Let's send the customer a video to adjust the brake noise.</p> <p>2. There is a noise when the brake is applied -> let the customer apply the brake several times.</p> <p>3. The disc of the disc brake rubs against the rim. -> Let's check whether the disc is bent.</p>
3	Wheel unstable, wobbly	<p>Tighten the screws that fix the disc brakes. If this does not work, refit the tyres. If it still doesn't work, change the wheel. We can provide spare parts.</p>
4	Display blurred by moisture	<p>If there is moisture inside the display, first place the bike in the sun for a while. If it still does not work, you will need to replace the display. We can provide spare parts.</p>
5	No power when pedalling	<p>1. Check if the display parameter value is the default value.</p> <p>2. If the display parameter value is normal, turn on the display and long press the "-" button to check if the 3.75mph boost is working. If it is working, replace the boost sensor. If it is not working, you also need to check if the display shows the speed value by idling the pedal. If the speed value is displayed, you need to replace the controller. If the speed value is not displayed, you need to replace the display.</p> <p>Note: Display failure requires more detailed judgment to confirm. We recommend that you contact the seller to solve this problem.</p>
6	Problem with the display	<p>Problem with the display</p> <p>1. The display does not show any speed/mileage -> plug the motor connector back in. If it still does not work, replace the motor.</p> <p>2. The display switches off while driving, then switches on again and stays on and cannot be switched off. -> Replace the display.</p> <p>3. The battery shows full charge, but the display shows empty charge and flashes constantly. -> Check the parameters. If it still does not work, change the display.</p>

Vorsichtsmaßnahmen

1. Bevor Sie das Display anschließen oder trennen, stellen Sie bitte sicher, dass Sie zuerst die Stromversorgung ausschalten, da der Live-Betrieb dauerhafte elektrische Schäden am Display verursacht;
2. Achten Sie bei der Montage des Displays darauf, dass der Drehmomentwert der verstärkten Sechskantkopfschraube höchstens 1Nm übersteigt, da übermäßiges Drehmoment die Instrumentenstruktur beschädigen kann;
3. Das Display nicht in Wasser einweichen;
4. Wenn Sie das Display reinigen, können Sie ein weiches Tuch verwenden, das in Wasser getaucht ist, um die Oberfläche abzuwischen, aber verwenden Sie kein Reinigungsmittel oder Sprühflüssigkeit auf der Oberfläche;
5. Bitte beachten Sie bei der Entsorgung lokale Gesetze und Vorschriften, entsorgen oder recyceln Sie das Gerät oder Zubehör nicht als Hausmüll;
6. Displayschäden und -ausfälle, die durch fehlerhafte Montage oder unbefugte Änderung der Parameterwerte verursacht werden, fallen nicht unter die After- Sales-Garantie.

Wartung und After-Sales

Tägliche Wartung und Reinigung

Tauchen Sie das Messgerät nicht in Wasser ein oder verwenden Sie Wasserspray, um das Messgerät zu reinigen. Bitte verwenden Sie bei der Reinigung ein weiches, mit sauberem Wasser angefeuchtetes Tuch. Nicht mit Reinigungsmittel abwischen.

Entsorgungsmittelung



Entsorgen Sie elektronische Geräte und Batterien nicht mit dem normalen Haushaltsabfall. Wählen Sie einen verantwortungsvollen und genehmigten Entsorgungsort in Ihrer Gemeinde und stellen Sie sicher, dass Sie die geltenden Vorschriften einhalten. Bei Unsicherheiten empfehlen wir, sich an die örtlichen Behörden zu wenden, um Anleitungen zu den geeigneten und umweltfreundlichen Entsorgungsmethoden zu erhalten.

Batterien/Akkus



Als Endverbraucher sind Sie verpflichtet, die Batterieverordnung einzuhalten, die die Rückgabe aller verbrauchten Batterien vorschreibt. Die Entsorgung von Batterien im normalen Haushaltsabfall ist gesetzlich verboten. Achten Sie auf das Symbol auf den meisten Batterien, das an diese Vorschrift erinnert und über enthaltene Schwermetalle informiert. Die umweltgerechte Entsorgung dieser Schwermetalle ist eine gesetzliche Verpflichtung für Endverbraucher, die aufgefordert werden, gebrauchte Batterien an den vorgesehenen Sammelstellen in ihrer Stadt oder in Handelsunternehmen abzugeben. Bei Unsicherheit ist es ratsam, sich an die örtlichen Behörden zu wenden, um korrekte und umweltbewusste Entsorgungsmöglichkeiten zu erfahren.

Recycling-Kreislauf



Verpackungsmaterial kann in den Rohstoffkreislauf zurückgeführt werden. Stellen Sie sicher, dass die Entsorgung von Verpackungsmaterial den gesetzlichen Vorschriften entspricht, und beziehen Sie sich auf Informationen, die durch Rücknahme- oder Sammelsysteme in Ihrer Gemeinde verfügbar sind. Dieser Ansatz garantiert einen nachhaltigen und umweltfreundlichen Beitrag zum Recycling-Kreislauf.

Wartung Kontaktinformationen

Danke, dass Sie sich für KOOLUX entschieden haben. Wir bieten Garantie und lebenslange After- Sales-Unterstützung für unsere KOOLUX-Produkte. Wenn Sie Fragen haben, kontaktieren Sie bitte unser After- Sales -Support- Team. Wir werden Ihnen schnellstmöglich technische Unterstützung und passende Lösungen zur Verfügung stellen.



KOOLUX After-Sales: info@koolux.eu

Declaration of Conformity



This declaration of conformity is established under the sole responsibility of the

EU representative:

- **Company:** Dunbang Speed
- **Address:** 1 Place du Verseau 38130 Échirolles
- **Email:** info@koolux.eu

We therefore officially declare that the document is issued under our sole responsibility and belongs to the following product:

Trademark	KOOLUX
Product model	X13
Product Description	Pedelec
Manufacturer	Yongkang Aijiu Industry & Trade Co., Ltd. Add: Hengyan Industry Area, Zhiying, Yongkang, Zhejiang, China Email: contact@yongkangaijiu.com
Product model	SAB-02
Product Description	Li-ion Battery
Manufacturer	Jinhua Sabo New Energy Co., LTD Add: 4F, No.951, Yuge Road, Xiaoshun Town, Jindong District, Jinhua City, Zhejiang Province Email: shiyuanyou3701@126.com
Product model	F02
Product Description	Battery Charger
Manufacturer	Shenzhen Hyleton Technology Co., Ltd Add: 4/F, A3 Building, Fenghuanggang 3rd Industry Park, Xixiang Town, Bao'an, District, Shenzhen, Guangdong, 518102, China Email: leiziming@hyleton.com.cn
Product model	X13
Product Description	Bicycle Luggage Carrier
Manufacturer	ZHEJIANG KUANTU INDUSTRY AND TRADE CO., LTD Add: No.12 Xinhui Road, Xinbi Street, Jinyun County, Lishui City, Zhejiang Province, China Email: info@kuantuscooter.com

Compliance of the product concerned has been assessed and certified according to:

For Pedelec

European Directives	Testing Standards
MD Directive 2006/42/EC	EN 15194:2017+A1:2023 EN ISO 12100:2010
EMC Directive 2014/30/EU	EN 55012 EN 61000-4-2 ISO 11454-1 EN IEC 55014-1:2021 EN IEC 55014-2:2021 EN 61000-4-2:2009 EN 61000-4-4:2012 EN 61000-4-5:2014+A1:2017 EN 61000-4-6:2014+AC:2015 EN IEC 61000-4-11:2020
ROHS 2.0 Directive 2011/65/EU	EN 62321-5:2014 EN 62321-4:2014+A1:2017 EN 62321-7-1:2015 EN 62321-7-2:2017 ISO 17075-1:2017 IEC 62321-6:2015 EN 62321-8:2017
RED Directive 2014/53/EU	EN 300 328 V2.2.2, EN 62479:2010 EN 301 489-1 V2.2.3, EN 301 489-17 V3.3.1 EN IEC 62368-1:2020+A11:2020

For Li-ion Battery

European Directives	Testing Standards
EN 50604-1	EN 50604-1:2016+A1:2021
(EU)2023/1542	PPP 51110B:2024
un38.3	UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.7/Amend1/Subsection 38.3

For Battery Charger

European Directives	Testing Standards
LVD Directive (EU)2014/35	EN 60335-1: 2012+A11+A13+A1+A14+A2+A15+A16 EN 60335-2-29: 2021+A1 EN 62233: 2008

For Bicycle Luggage Carrier

European Directives	Testing Standards
2001/95/EC	EN ISO 11243:2016

Notify body :

Shenzhen STL Testing Technology Co., Ltd.
TÜV SÜD Certification and Testing(China)Co., Ltd

For and on behalf of
Dunbang Speed

Bangqiao Dun ^{CEO}
24.11.2025
.....
Authorized Signature(s)

Declaration of Conformity



This declaration of conformity is established under the sole responsibility of the

UK representative:

- **Company :** MASILI SOLUTIONS LTD
- **Address :** Add: OFFICE 11, AUSTIN COURT 64 WALSALL ROAD SUTTON
- COLDFIELD UNITED KINGDOM B74 4QY
- **Email:** info@koolux.eu

We therefore officially declare that the document is issued under our sole responsibility and belongs to the following product:

Trademark	KOOLUX
Product model	X13
Product Description	Pedelec
Manufacturer	Yongkang Aijiu Industry & Trade Co., Ltd. Add: Hengyan Industry Area, Zhiying, Yongkang, Zhejiang, China Email: contact@yongkangaijiu.com
Product model	SAB-02
Product Description	Li-ion Battery
Manufacturer	Jinhua Sabo New Energy Co., LTD Add: 4F, No.951, Yuge Road, Xiaoshun Town, Jindong District, Jinhua City, Zhejiang Province Email: shiyuanyou3701@126.com
Product model	F02
Product Description	Battery Charger
Manufacturer	Shenzhen Hyleton Technology Co., Ltd Add: 4/F, A3 Building, Fenghuanggang 3rd Industry Park, Xixiang Town, Bao'an District, Shenzhen, Guangdong, 518102, China Email: leiziming@hyleton.com.cn
Product model	X13
Product Description	Bicycle Luggage Carrier
Manufacturer	ZHEJIANG KUANTU INDUSTRY AND TRADE CO., LTD Add: No.12 Xinhui Road, Xinbi Street, Jinyun County, Lishui City, Zhejiang Province, China Email: info@kquantuscooter.com

Compliance of the product concerned has been assessed and certified according to:

For Pedelec

European Directives	Testing Standards
MD Directive 2006/42/EC	EN 15194:2017+A1:2023 EN ISO 12100:2010
EMC Directive 2014/30/EU	EN 55012 EN 61000-4-2 ISO 11454-1 EN IEC 55014-1:2021 EN IEC 55014-2:2021 EN 61000-4-2:2009 EN 61000-4-4:2012 EN 61000-4-5:2014+A1:2017 EN 61000-4-6:2014+AC:2015 EN IEC 61000-4-11:2020
ROHS 2.0 Directive 2011/65/EU	EN 62321-5:2014 EN 62321-4:2014+A1:2017 EN 62321-7-1:2015 EN 62321-7-2:2017 ISO 17075-1:2017 IEC 62321-6:2015 EN 62321-8:2017
RED Directive 2014/53/EU	EN 300 328 V2.2.2, EN 62479:2010 EN 301 489-1 V2.2.3, EN 301 489-17 V3.3.1 EN IEC 62368-1:2020+A11:2020

For Li-ion Battery

European Directives	Testing Standards
EN 50604-1	EN 50604-1:2016+A1:2021
(EU)2023/1542	PPP 51110B:2024
un38.3	UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.7/Amend1/Subsection 38.3

For Battery Charger

European Directives	Testing Standards
LVD Directive (EU)2014/35	EN 60335-1: 2012+A11+A13+A1+A14+A2+A15+A16 EN 60335-2-29: 2021+A1 EN 62233: 2008

For Bicycle Luggage Carrier

European Directives	Testing Standards
2001/95/EC	EN ISO 11243:2016

Notify body :
Shenzhen STL Testing Technology Co., Ltd.
TÜV SÜD Certification and Testing(China)Co., Ltd.

For and on behalf of
MASILI SOLUTIONS LTD

Jun Liang . CEO
21.05.2025

.....
Authorized Signature(s)



Return of E-bikes

Only use the shipping carton that the E-bike was delivered in. Be careful to protect the E-bike from impact when packing it. When returning, the battery must be inserted into the battery holder provided with the bicycle and locked.

IMPORTANT

E-bikes with batteries that have mechanical or electrical defects may not be shipped. Please contact the manufacturer's customer service department for more information.

Battery Returns

Pack the battery in a padded bag to protect it from impacts and external influences.

If your battery has visible damage or indicates electrical defects, it is generally not allowed for shipment. Please contact our service team and dispose of the battery properly.

Warranty Card

Customer Information:

Name: _____

Address: _____

City: _____

State/Province: _____

Postal Code: _____

Country: _____

Phone: _____

Email: _____

Bicycle Information:

Model: _____

Serial Number: _____

Purchase Date: _____

Instructions:

- Please fill in the customer and bicycle information above.
- Keep this warranty card in a safe place.
- Present this card along with proof of purchase for any warranty service.
- This warranty card is valid for the warranty period specified.

Important:

- This warranty card is non-transferable.
- For warranty service, contact the authorized dealer/center listed above.
- This simple warranty card template provides a space for customers to fill in their personal details, bicycle information, and warranty period. It also includes instructions for use and a section for the customer's signature, ensuring that the warranty is personalized and official.