



EN

# Operating instructions

With e-bike pass and maintenance booklet

Original instructions

## E-Folding Bike F12



Product number: BB12167



### **Congratulations on the purchase of your new E-Folding Bike!**

This e-folding bike is a powerful combination of a high-end bike, a powerful motor and a high-quality lithium battery. Faster and further with more fun: it is the ideal companion for your fitness program, leisure time and everyday journeys.

Due to the physical differences, riding habits and riding characteristics of every cyclist, especially when riding uphill and over long distances, cycling can be very strenuous. Our E-Folding Bike has been specially developed to make this easier and give you a great riding experience.

**Please read these instructions carefully.**

### **Important notes**

This manual contains important safety, performance and service information.

Please ensure that you have read and understood the following warnings and precautions before using the product for the first time. If you lend your E-Folding Bike to another person, ask them to read this manual to minimize the likelihood of accidents.

**WARNING:** Wear a suitable and qualified helmet while riding and wear fluorescent or reflective clothing at night.

**NOTE:** This manual does not contain all possible complications that may occur during the ride. Please also read the F.A.Q. to solve any problems with the E-Folding Bike. For further information, please contact your dealer. Please also contact your dealer or find a professional service technician if repair or maintenance is required. Please observe all warnings in this manual, read and understand the contents before using your bike.

**WARNING:** Warnings indicate that considerable damage to property, serious injury or death to you or others may occur. It is essential that you comply with the legal regulations applicable in your country.

**ATTENTION:** Tampering with the electrical management system is strictly prohibited.

### **NOTE ON IMAGES:**

Images and graphics in the manual may differ from your actual product, as the E-Folding Bike is manufactured in several versions. The pictures are intended as supplements to the text and for better understanding.

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## E-FOLDING BIKE CARD / BIKE PASS

PLEASE COMPLETE THE FOLLOWING E-FOLDING BIKE PASS:

<b>FRAME NO. *</b>	<input type="text"/>	
<b>MODEL</b>	<input type="text"/>	
<b>TYPE</b>	<input type="text" value="E-FOLDING BIKE"/>	<b>BATTERY SERIAL NO.</b> <input type="text"/>
<b>ENGINE</b> (rear/middle)	<input type="text"/>	<b>ENGINE SERIAL NO.</b> <input type="text"/>
<b>SIZE</b> (in inches)	<input type="text"/>	(If available)
<b>COLOR</b>	FRAME/ FORK/ RIM	<input type="text"/>
<b>GEAR SHIFT</b>	DERAILLEUR	<input type="text"/>
	TYPE/ NUMBER OF GEARS	<input type="text"/>
<b>SPECIAL EQUIPMENT</b>	SUSPENSION FORK/ BASKET	<input type="text"/>
	FRONT CARRIER	<input type="text"/>
	OTHER	<input type="text"/>
<b>OWNER</b>	<input type="text"/>	
	<input type="text"/>	
	<input type="text"/>	
	<input type="text"/>	
<b>SELLER</b>	<input type="text"/>	
	<input type="text"/>	
	<input type="text"/>	
	<input type="text"/>	
<b>PURCHASE DATE</b>	<input type="text"/>	

\*The frame number is located on the underside of the frame.

## DETAILS on SERIES and FRAME NUMBER

Your E-Folding Bike has a unique frame number. Make a note of this on the warranty certificate or in conjunction with your invoice and keep the certificate in case of theft.

In this case, the passport will contain all the relevant information for the police or your insurance company. To maximize the protection of your E-Folding Bike against theft, you should purchase a high-quality U-lock or chain lock. Please do not leave your E-Folding Bike in an unattended place. Please lock the main components such as the frame battery when you lock the E-Folding Bike.

Your local police station or the ADFC (Allgemeiner Deutscher Fahrrad Club) usually offer a free bicycle registration service. In the event of theft, this makes it easier to file a report and with your insurance company. There is also a corresponding free police app (for iOS and Android in the corresponding app store). This information applies to Germany, check with your local authorities. There is a comparable free service in almost every country.



(BIKE PASS APP)

## 1. UNPACKEN

### Scope of delivery

E-Folding Bike	1
Saddle and seat post	1
Charger	1
Operating instructions	1

Please check the scope of delivery for completeness.

If the scope of delivery is not complete, please contact us (see returns slip).

**Tip:** Your E-Folding Bike is slightly heavier than a normal bike. We recommend that you lift the device out of the box with 2 people to avoid damage.

4. Open the packaging box carefully. To avoid injury, please wear gloves.

5. Carefully cut the various cable ties to avoid accidentally damaging the bike, paintwork or tires or losing accessories.

6. Remove all protective material.

**Remarks:** Upgrading with non-approved accessories, add-on parts or manipulation of the control units is prohibited. Do not drill any holes in the frame as this will invalidate the warranty.

**WARNING:** Incorrect installation and use of parts not supplied and improper modifications to the condition of the E-Folding Bike can lead to considerable material damage or the invalidation of all warranty and guarantee claims. This can even result in accidents, serious injuries or death. If you wish to upgrade or add further parts or accessories, please contact your dealer or a suitable expert. They will be able to provide you with information.

## Designations on the E-Folding Bike F12



- |                           |                                      |
|---------------------------|--------------------------------------|
| 1. Handlebars             | 10. Chainring protection wheel       |
| 2. Brake                  | 11. Pedal                            |
| 3. Stem                   | 12. Motor                            |
| 4. Folding bolt stem      | 13. Shock absorber                   |
| 5. Folding mechanism stem | 14. Seat post clamp                  |
| 6. Bicycle frame          | 15. Seat post                        |
| 7. Front fork             | 16. Saddle                           |
| 8. Disc brake             | 17. Folding latch for bicycle frames |
| 9. Chainring              |                                      |

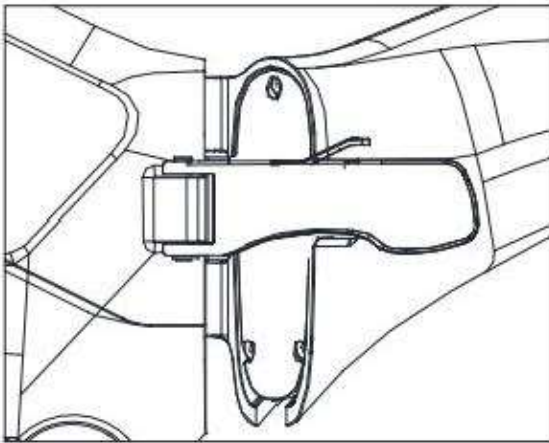
## 2. STRUCTURE

### 2.1 Before installation

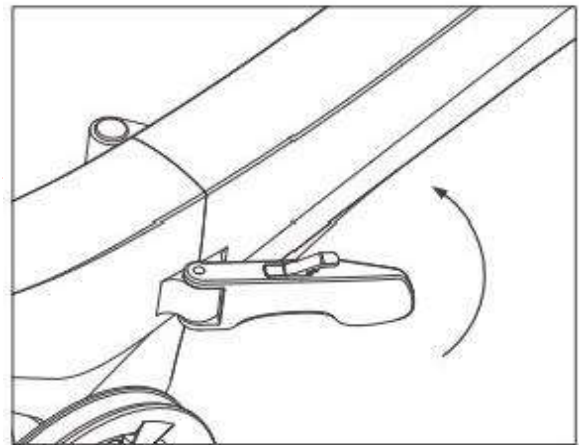
**WARNING:** Incorrect assembly of your e-bike can lead to considerable material damage, including personal injury. If you are not sure whether your assembly is correct, please contact your dealer.

**WARNING:** The motor, controls, sensors, battery and various cables on your bike must not be used for any other purpose. Do not disassemble or modify these parts, this can lead to serious damage to these parts and also invalidate the warranty. It can also be detrimental to your personal safety.

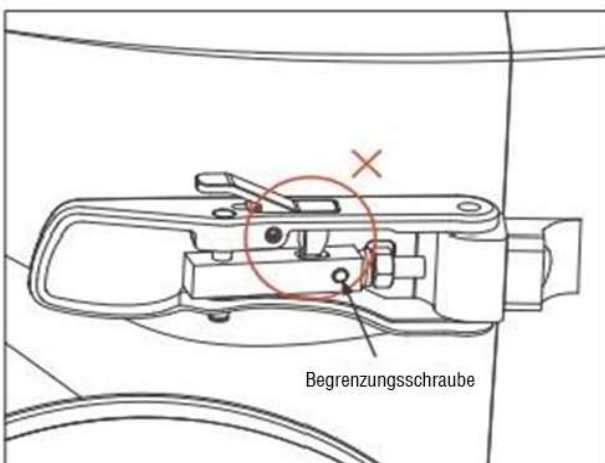
### 2.2 Function of the folding mechanism



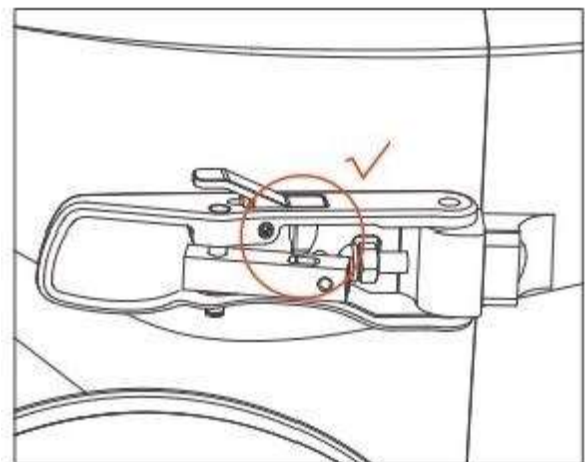
1) Hold the frame firmly and unfold it.



2) Lock the folding bracket as illustrated and check the folding bracket before locking according to instructions 3) and 4).

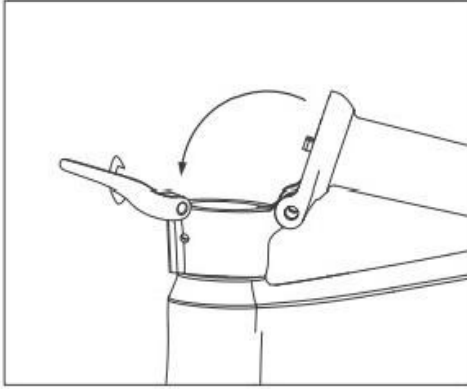


3) Press the release button on the top of the folding clamp. Adjust the limit screw if necessary.

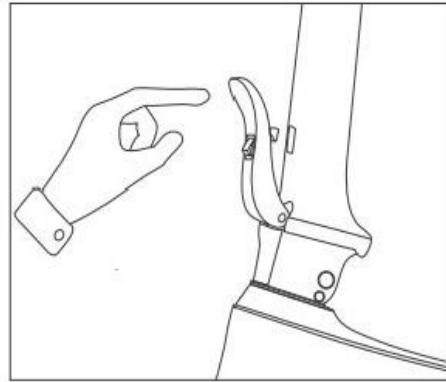


4) Lock the hinged bracket as shown in Fig. 2).

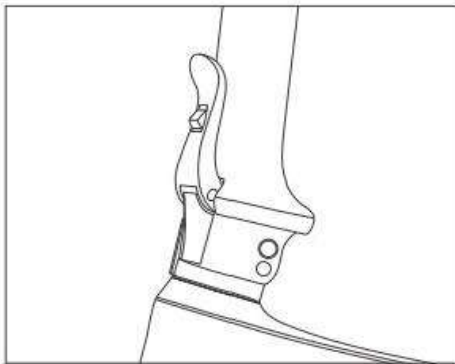
## 2.3 Folding up the stem



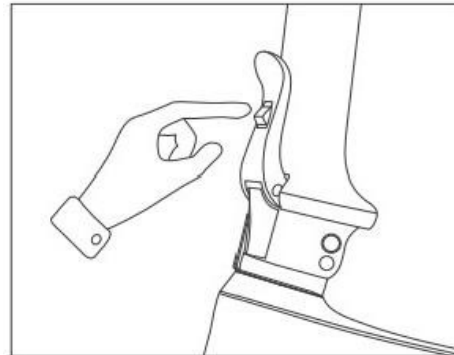
1) Hold the bike, unfold the stem upright and make sure that it connects seamlessly to the lower part.



2) Lift the quick release upwards to lock the stem.

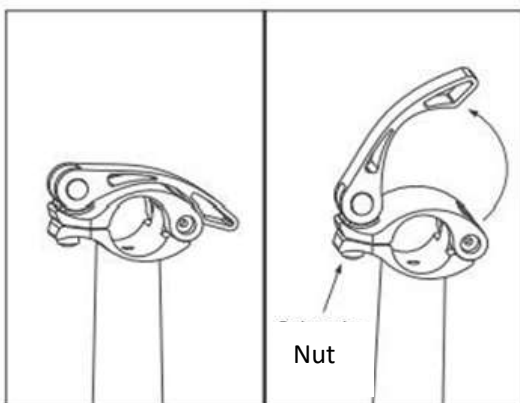


3) Shake the stem to make sure, that the quick release is firmly engaged.

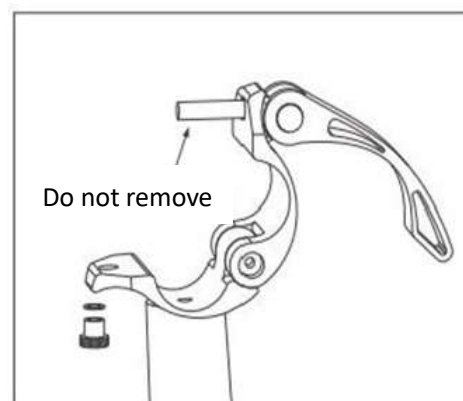


4) Press the unlock button on the stem quick release while pulling the stem quick release outwards to unlock it and fold up the stem.

## 2.4 Mount the handlebars

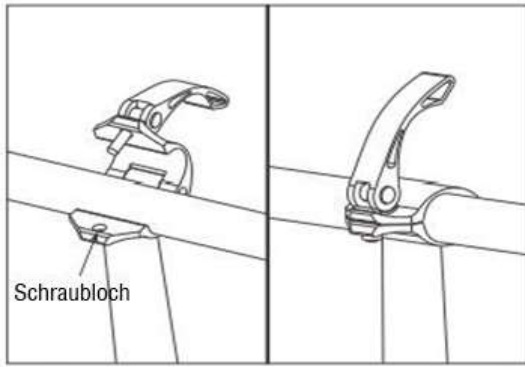


1) Open the handlebar clamp lever and unscrew the nut.

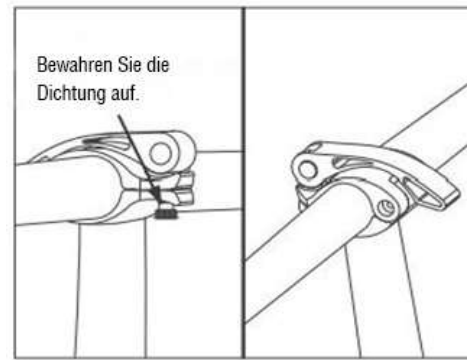


2) Put the nut to one side and open the handlebar clamp with the attached lever.



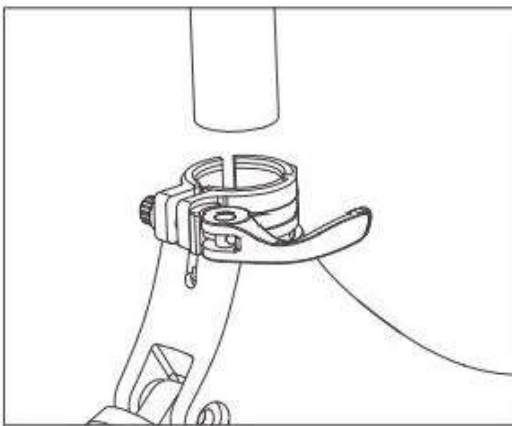


3) Place the handlebars in the handlebar clamp as shown and close the handlebar clamp.

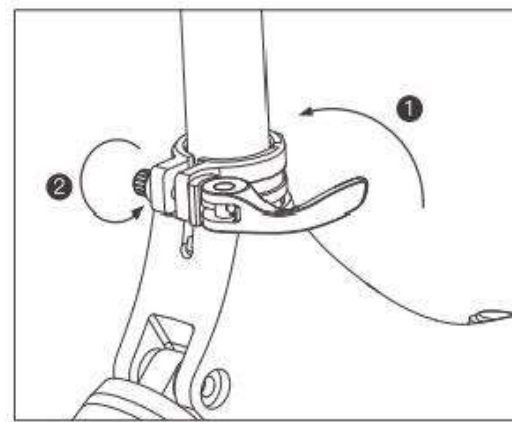


4) Fit the nut, adjust the angle and position of the handlebars, tighten the nut and close the steering clamp lever.

## 2.5 Installing the seat post

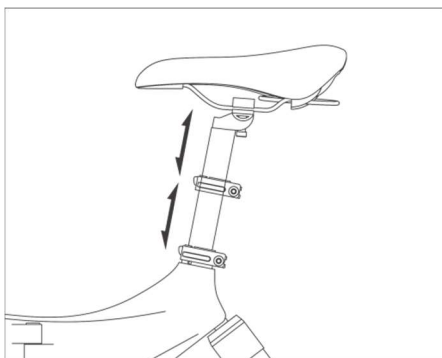


1) Loosen the seat post clamp, hold the frame to install the seat post.

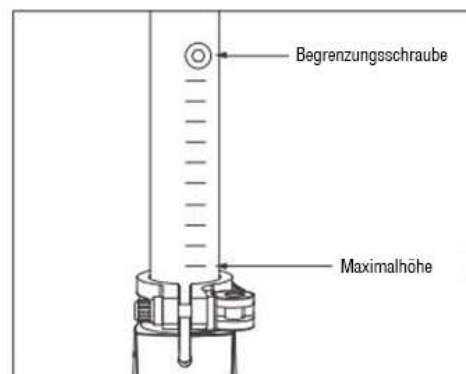


2) Tighten the seat post clamp as shown and then push the saddle down to make sure it is secure.

## 2.6 Adjusting the saddle height



1) When adjusting the seat height, loosen the seat post clamp, adjust the saddle to a suitable height and tighten the clamp again.

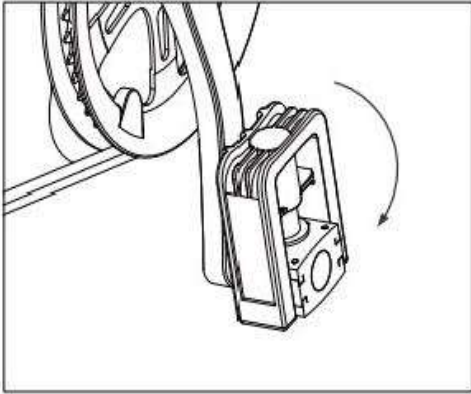


2) Make sure that the seat post clamp is within the limiting screw and the line for the maximum height, otherwise this poses a risk when riding. The lowest height of the saddle is 860 mm when the limit screw is in contact with the seat post clamp.

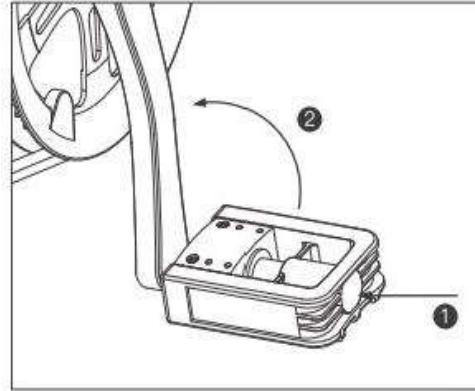
**Remarks:** After adjustment, make sure that the seat post clamp is firmly engaged. The seat post must not slip.

**WARNING:** Incorrect installation of the seat post can lead to serious injury or death. It is strictly forbidden to increase the height of the seat post beyond the maximum height.

## 2.7 Fold out the pedals

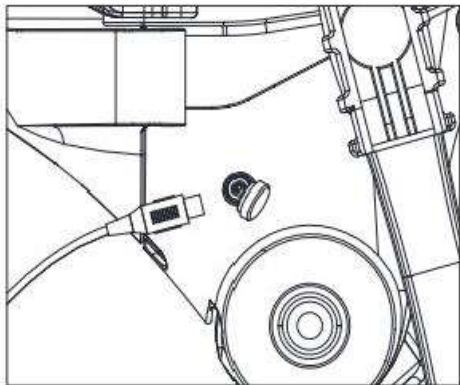


1) Hold the bike, fold out the pedal.

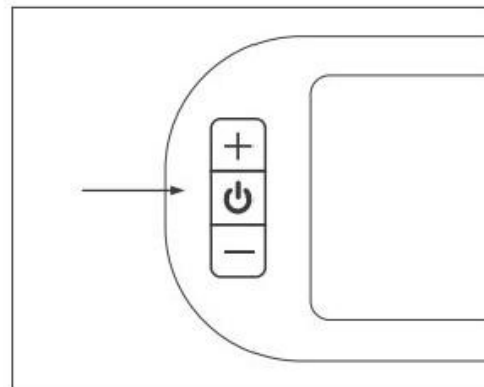


2) Fold the pedal over by first pushing it inwards and then upwards.

## 2.8 Switching on the power



1) Please charge the battery before the first ride to activate it.



2) Press and hold the on/off button on the LCD display to switch on the appliance.

### 3. CONTROL DISPLAY

**Warning:** The warranty of your e-bike will be invalidated if the technical settings of the display have been changed improperly.

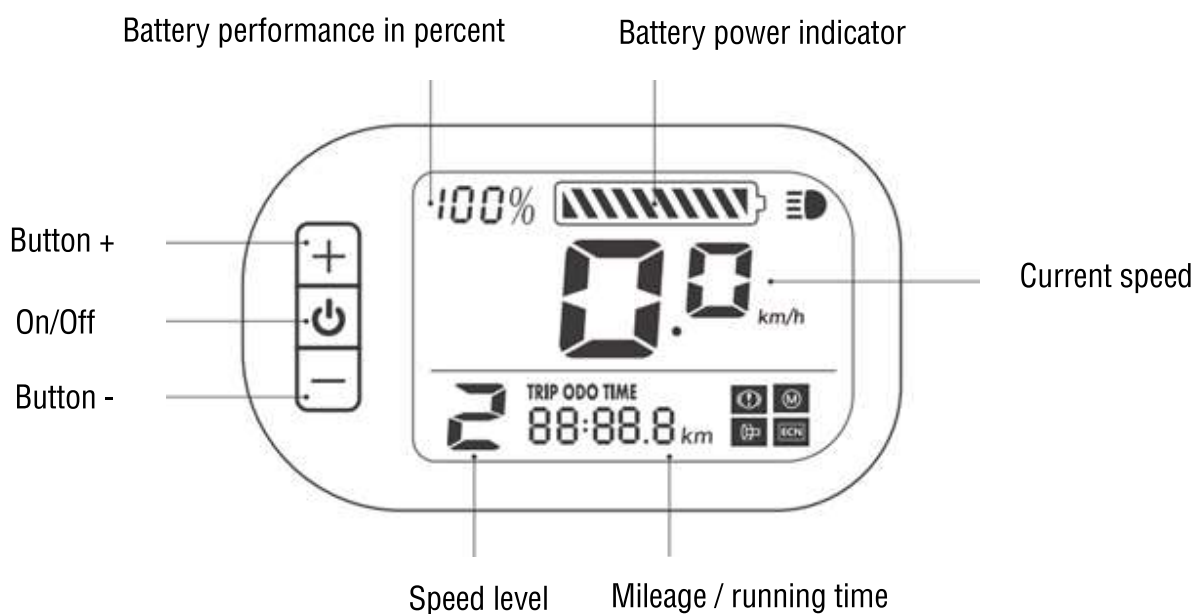
#### Installation instructions

The control display is mounted on the left-hand side of the handlebar.

Adjust the angle for a good screen view.



#### 3.1 Function layout




#### 3.2 Explanation of the buttons

**On/Off:** To switch the E-Bike system on and off, press and hold the on/off button for 3 seconds.  
Press briefly to switch the display from single trip mileage/ to total mileage/ runtime.


**Button:+** Long press to switch the front light on/off.  
Press briefly to increase the assistance level.


**Button - :** Press briefly to reduce the speed.

### 3.3 Description of the icons

 Lights up when the front light is switched on.

 Lights up when braking

 Motor problem display

 Display of a control problem

TRIP ODO TIME  
88:88.8 Trip odometer /Total odometer / Running time

#### Hint:

1. use the display with care. Please do not open the housing!
2. avoid objects hitting the display.
3. contact the manufacturer if the display is not working properly.

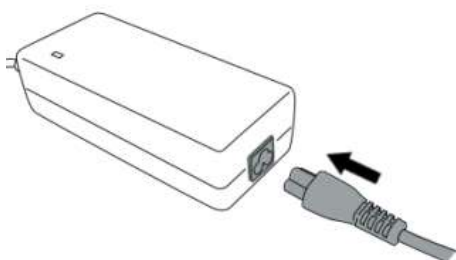
### 3.4 Support levels

- Level 0:** Driving without power assistance  
**Level 1:** low speed, maximum approx. 15 km/h  
**Stage 2:** Medium speed, maximum approx. 20 km/h  
**Level 3:** High speed, maximum approx. 25 km/h

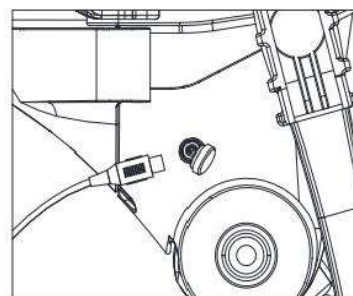
## 4. CHARGING

#### Procedure for charging the battery:

1. Make sure that your e-bike is switched off. Plug the power cable into the charger.
2. Open the silicone cover to charge the device via the charging port on the bike frame. (Please pull the silicone cover carefully so that it does not break).



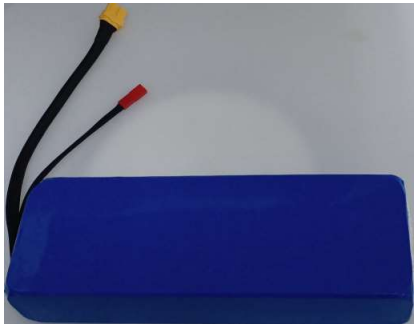

Step 1



Step 2

3. When the charger is plugged in, the LED lights up green. As soon as it is connected to the battery, the LED changes to red. Once the charge is full, the LED changes back to green.
4. After charging, first disconnect the mains plug of the charger from the socket and then disconnect the plug from the battery socket.

**Battery and charging considerations:**

Battery	Charging
	
<p>You can see the charge level of your battery on the display. The motor and battery control stops automatically to protect the battery and prevent a power failure as soon as the battery voltage falls below a certain level. Please ensure that the battery is then recharged as quickly as possible, as deep discharging will damage the battery.</p>	<p>Ensure that only the charger supplied is used to charge the battery. If you use a charger other than the original, the battery will lose its warranty and may be damaged, which can lead to fire, injury or death.</p>
<p>Improper removal, repair, use or storage of the battery may invalidate the warranty and may have serious consequences. It is strictly forbidden to use the battery of your e-bike for other vehicles or devices. This will invalidate the warranty and may have serious consequences such as fire, serious injury or death.</p>	<p>The battery can be fully charged in approximately 5 to 8 hours under normal conditions. The time required to fully charge the battery and the operating time vary depending on the capacity of the battery.</p>
<p>Never intentionally short-circuit a battery. This can result in an explosion, fire and therefore a serious risk to your health.</p>	<p>You can recharge the battery at any time if the battery has no power. If you do not charge the battery for a long time, it will gradually lose its performance and service life. With proper use and maintenance, your battery can retain more than 80% capacity after more than 500 charge cycles, but a decrease in overall capacity is inevitable.</p>
<p>Leaking batteries can be toxic. The electrolytes can be irritating and corrosive. It is therefore essential to avoid contact with the skin or eyes if batteries have leaked. Wash the affected areas immediately and consult a doctor if necessary.</p>	<p>Do not place any objects on the battery or charger during the charging process, as this can lead to overheating and serious consequences.</p>
<p>Keep the battery away from fire and other sources of heat and protect it from intense sunlight radiation. Do not use the battery if you notice any unusual heat, odor or discoloration or the battery is damaged.</p>	<p>Please use your charger indoors, as damage caused by improper use is not covered by the warranty.</p>

## 5. BATTERY REPLACEMENT STEPS



10. Remove both side panels.



11. Unplug two power Cables.



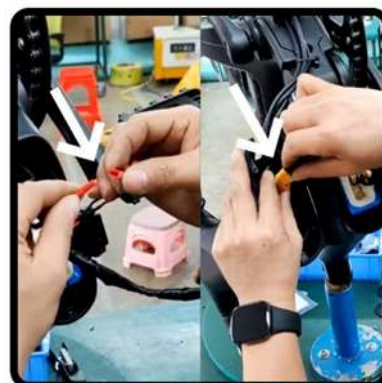
12. Gently remove the battery.



13. Check if the new battery in a good condition.



14. Gently insert the battery.



15. Connect the power cables.



16. Arrange the wiring harness neatly .



17. Cover the protective panel.



18. Tighten the screws

## 6. BEFORE THE FIRST TRIP

This section is intended to prepare you for your first ride. Please always wear a safety helmet in the correct size. If you wish to lend the e-bike to others, please ensure that they wear a safe and appropriate helmet.

### Do not take anyone with you on the bike!

Overloading, which can be caused by double manning, can have serious consequences that can lead to considerable damage to property, serious injury or death.

### Compliance with traffic laws and regulations

Please ride on the legally prescribed side of the road. Observe the local laws and regulations!

### Reflectors

Please keep the reflectors clean, bright and do not remove them.

### Check the brakes

Please check the braking distance and braking force before each ride. Please note that the right brake corresponds to the rear brake and the left brake corresponds to the front brake. Your e-bike is equipped with normal specifications of brake pads. Please check the brake pads every time and ask your dealer about the brake pads. If the brake pads are worn, please replace them as soon as possible.

### Tire pressure

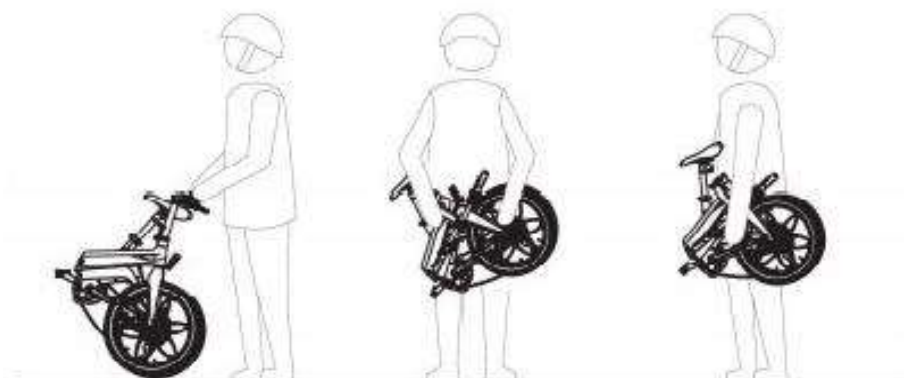
The tire pressure is usually indicated on the side of the tire. Your tires contain inner tubes that you must inflate. Please check the tire pressure before every ride. Tires gradually lose pressure, which is normal. If you lose too much air pressure, please re-inflate. If your tire pressure is insufficient, this leads to additional power consumption, effort and reduces your range.

### Instructions for use:

Prevent unauthorized use of the e-bike (e.g. use a lock).

**WARNING:** If you brake hard and lock the tire, this will cause a rollover, which can result in significant property damage, serious injury or death. If you are not sure whether your brake adjustment is appropriate, please contact your dealer or consult a specialist.

### How to push, carry or walk with the bike:



## 7. MAINTENANCE

Component	Initial assembly	500km or half a year*	1000km or 1 year*	Per 1000km or 1 year*
Tubes and tires	×	×	×	×
Wheel incl. rims and spokes	-	×	×	×
Brakes	×	×	×	×
Light and reflectors	×	×	×	×
Stem and handlebars	×	×	×	×
Steering head bearing	×	×	×	×
Saddle(support)	×	×	×	×
Frame	-	×	×	×
Circuit	×	×	×	×
Suspension fork	-	×	×	×
Battery and Battery holder	×	×	×	×
Drive system	-	×	×	×
Chain	-	×	×	×
Bottom bracket, cranks and pedale	-	×	×	×
Accessories components	-	×	×	×
Screw connections	×			
Quick release	×	<b>Before every trip</b>		

\*The earlier event is used as a guide, i.e. whether km or the time period has been reached.

You can voluntarily use this maintenance table and the service table to carry out inspections and repairs properly carried out and registered by your mechanics. You are not obliged in addition. In the event of a subsequent warranty claim on your e-bike, this can help us in our assessment and possibly confirm or even increase the chances of goodwill.

**WARNING:** For your safety, the battery must always be removed during maintenance!

**The specifications generally include cleaning, greasing and adjusting the specific component as necessary and, if necessary, replacing it due to wear, fatigue or damage.**

**General information and brief instructions for the care of individual parts can be found on the following pages.**

**WARNING:** Be aware that the components and systems can heat up during use. Wait some time after riding before starting care, inspection or maintenance to avoid burns.



## Regular inspection: (small checklist):

<b>A</b>	Check the tires for damage and whether the tire pressure is sufficient.
<b>B</b>	To check the function of the front brake, apply it halfway or two-thirds and if the front wheel does not rotate, everything is functional. To check the rear brake: Apply pressure to the foot pedal when lifting the bike. The brake is effective if the rear wheel does not turn.
<b>C</b>	Make sure that the parts for the quick lock are locked in place.
<b>D</b>	The safety line on the tube of the handlebar attachment and the saddle must not be visible. Check that everything is firmly tightened.
<b>E</b>	Check whether the frame and front fork are cracked or deformed and whether the pedals, gears and tires are intact.
<b>F</b>	Check whether the drive is deformed or damaged.
<b>G</b>	Check whether the drive can be used normally.
<b>H</b>	Check the nuts and bolts. Raise the front and rear wheels by approx. 10 to 20 cm and then let your e-bike hit the ground. If noises occur, there may be loose parts.
<b>I</b>	Check whether the lighting can be used normally.
<b>J</b>	Regular cleaning of your e-bike is recommended. This prevents the build-up of stubborn dirt and premature rusting caused by salty air or water.

**CAUTION:** Do not use high-pressure cleaners or aggressive and grease-dissolving agents.

**TIP:** Use water and a soft cloth to avoid damaging your e-bike. If it is very dirty, you can use special bike cleaning agents.

## Notes on the inspection and maintenance of some components and systems:

<b>Impellers</b>	<p>The front and rear wheels of the vehicle should be in the center of the fork or frame. The tension of each spoke on the wheel rim should be similar and the rim should form a regular circle without dents. If spokes are missing or broken, the rim will lose stability. Please ask your dealer or professional technician for repair and troubleshooting.</p> <p>The wheel must be round. If this is not the case, it will increase the resistance of the ride or cause a hazard. If you think you need to make adjustments, please contact your dealer or consult a professional technician.</p>
<b>Chain</b>	<p>Your e-bike is equipped with a high-quality drive chain. Please keep the chain clean and add lubricant frequently.</p> <p>The brake pads and brake discs must be kept free of grease. Keep the brake discs and brake pads clean.</p>

<b>Tires</b>	Always check the tire for scratches, cracks or excessive wear. The tire should be properly combined with the rim. The tire bead line should be fully exposed. If the tire cannot be fully expanded, apply water to the rim and tire to increase lubrication. The valve of the inner tube should be perpendicular to the rim. Damaged or excessively worn tires must be replaced immediately. Please contact your dealer or a technical specialist to replace your tires. If your tires have been punctured accidentally, contact your dealer or technician for repair or replacement.
<b>Rear wheel hub motor</b>	Do not open the motor and do not overload or operate the motor over a long distance or on a very steep incline. It is strictly forbidden to attach other objects to or on the motor housing, as this can have a negative impact on statics, riding safety and heat dissipation.
<b>Brake system</b>	Depending on the conditions, the braking effect may diminish after a short running-in period or a squealing noise may be heard. The squealing could be caused by contamination. You should carefully clean your brake discs with a suitable cleaner (brake cleaner). If the braking effect decreases, we recommend that you visit a specialist workshop or a suitable technician.

## 8. SAFETY INSTRUCTIONS

<b>Please carry A helmet!</b>	If you ride an e-bike, please wear a safe, approved helmet! It is strictly forbidden to carry people. Please observe the traffic regulations and be careful with suddenly opening car doors. Try to keep your distance from cars parked at the side of the road in case the door suddenly opens or the car blocks your line of sight so that you cannot see people or objects suddenly appearing in time.
<b>Please be especially careful in bad weather!</b>	In wet weather, your electric bike brakes many times slower than normal. Please reduce your speed, brake in advance and ride carefully through bends. Make sure that you are seen by other road users. If you are riding on dark roads or at night, please wear clothing with reflective stripes or fluorescent paint as a warning. Switch on your own lights and check the reflectors and keep them clean. Drive slowly and with foresight.
<b>Please concentrate!</b>	You should watch out for traffic!
<b>Check your vehicle before every journey!</b>	Please check your entire e-bike before every ride: brakes, tires, rims, quick-release levers and all screws or components. The battery must be carefully maintained to ensure its safety and reliability.

**Pay attention to the legal regulations in the country in which you use your e-bike!**



**Do not open your battery!**

Modifications to your battery can lead to explosions and considerable damage. Never intentionally short-circuit a battery. This can result in an explosion, fire and therefore a serious risk to your health. Leaking batteries can be toxic. It is therefore essential that you avoid contact with your skin and eyes if batteries have leaked. Wash the affected areas immediately and consult a doctor if necessary.



## 9. SERVICE BOOKLET

You can use this template voluntarily to have inspections and repairs duly entered by your mechanics. You are not obliged to do so. In the event of a subsequent warranty claim on your e-bike, this can help us in our assessment and increase the chances of goodwill.

1st inspection	2nd inspection	3rd inspection	4th inspection
Carried out on:	Carried out on:	Carried out on:	Carried out on:
Signature/ Stamp Specialist workshop	Signature/ Stamp Specialist workshop	Signature/ Stamp Specialist workshop	Signature/ Stamp Specialist workshop

5th inspection	6th inspection	7th inspection	8. inspection
Carried out on:	Carried out on:	Carried out on:	Carried out on:
Signature/ Stamp Specialist workshop	Signature/ Stamp Specialist workshop	Signature/ Stamp Specialist workshop	Signature/ Stamp Specialist workshop

9. inspection	10. inspection	11. inspection	12. inspection
Carried out on:	Carried out on:	Carried out on:	Carried out on:

Signature/ Stamp	Signature/ Stamp	Signature/ Stamp	Signature/ Stamp
Specialist workshop	Specialist workshop	Specialist workshop	Specialist workshop

## 10. F.A.Q. - Frequently asked questions and their solutions

Below you will find some common problems and solutions. If the following methods solve your problem does not solve the problem, please contact your dealer

Problem	Possible cause	Solution approach
<b>Control display does not respond - Attempt to switch on without result</b>	<ol style="list-style-type: none"> <li>1. battery empty</li> <li>2. battery is not seated correctly in the battery sled</li> <li>3. connection cable control display/control Device not connected or defective</li> <li>4. control display defective</li> <li>5. battery (circuit) defective</li> </ol>	<ol style="list-style-type: none"> <li>1. fully charge the battery</li> <li>2. bring the battery sled back into position its original position and pull Remove the two fastening screws firmly.</li> <li>3. connect the plug of the display control to the handlebar control</li> <li>4. replacement of the control display</li> <li>5. replacement of the e-bike battery</li> </ol>
<b>E-bike and control display fall after a short drive from or failure to reach the maximum motor support tion</b>	<ol style="list-style-type: none"> <li>1. e-bike battery is almost empty</li> <li>2. plug contacts of the battery slide not connected</li> <li>3. battery protection and charging control defective</li> <li>4. defect in display control or Engine control unit and engine damage</li> </ol>	<ol style="list-style-type: none"> <li>1. fully charge the battery</li> <li>2. check the position of the battery slide*</li> <li>3. replacement of the e-bike battery*</li> <li>4. replacement of the respective component*</li> </ol>
<b>Despite correct operation the motor does not run</b>	<ol style="list-style-type: none"> <li>1. circuit breaker in brake lever defective</li> <li>2. loosened motor cable connectors</li> <li>3. battery cable disconnected</li> </ol>	<ol style="list-style-type: none"> <li>1. check the cable contacts or the Replace brake lever and cable*</li> <li>2. check the plug connections*</li> <li>3. check battery cable*</li> </ol>

<b>Low range although Battery fully charged</b>	<ol style="list-style-type: none"> <li>1. more stringent requirements due to changed Payload, incline, headwind, etc.</li> <li>2. battery too old</li> <li>3. battery defective</li> <li>4. storage or use when too cold Ambient temperatures (below 5°C)</li> <li>5. brake system grinds</li> <li>6. insufficient lubrication one of the moving components</li> </ol>	<ol style="list-style-type: none"> <li>1. increase your own pedal input</li> <li>2. replace battery*</li> <li>3. replace battery*</li> <li>4. increase your own pedal input, precharge the battery the journey at more than 7 degrees and store at less than 25 degrees</li> <li>5. adjust the brake*</li> <li>6. check bearing, if necessary regrease*</li> </ol>
<b>Battery does not charge</b>	<ol style="list-style-type: none"> <li>1. plug connections loosened</li> <li>2. battery defective</li> <li>3. charger defective</li> </ol>	<ol style="list-style-type: none"> <li>1. check plug contacts*</li> <li>2. replace battery*</li> <li>3. replace the charger</li> </ol>
<b>Front light does not work</b>	<ol style="list-style-type: none"> <li>1. errors in operation</li> <li>2. cable connection defective</li> <li>3. plug released</li> <li>4. defective LED</li> <li>5. battery empty</li> </ol>	<ol style="list-style-type: none"> <li>1. read "Control display"</li> <li>2. replace cable*</li> <li>3. check plug connections</li> <li>4. replace front light*</li> <li>5. fully charge the battery</li> </ol>
<b>Unusual noise development</b>	<ol style="list-style-type: none"> <li>1. chain must be regreased</li> <li>2. chain is too tight</li> <li>3. pedal crank has come loose</li> <li>4. steering head bearing has too much play</li> </ol>	<ol style="list-style-type: none"> <li>1. regrease the chain</li> <li>2. re-tension the chain*</li> <li>3. tighten the crank arms*</li> <li>4. retighten steering head bearing</li> </ol>
<b>Braking effect decreases, Brake shows no effect</b>	<ol style="list-style-type: none"> <li>1. wear of the brake pads</li> <li>2. brake incorrectly adjusted</li> <li>3. brake too hot under continuous load (e.g. due to long downhill runs)</li> </ol>	<ol style="list-style-type: none"> <li>1. replacing the brake pads*</li> <li>2. readjustment of the brake system*</li> <li>3. use the brake alternately</li> </ol>

\*Please do not carry out these solutions yourself. Please contact a suitable technician or specialist workshop or our support team.

## 11. DATA SHEET

Mechanical configuration		
1	Color	Gray
2	Unfolded format	1358*590*1098mm
3	Folded format	800*320*770mm
4	Seat height (from the floor)	860-980mm adjustable
5	Wheelbase	950mm

6	Net weight (battery not included)	About 19kg
7	Brake system	Front and rear disc brakes
8	Dimension of the tires	16*1.95 inch
9	Frame material	Magnesium frame
10	Suspension	Rear spring shock absorber
<b>Specification of battery and charger</b>		
1	Installing the battery	Built-in anti-theft lock/removable
2	Nominal voltage	36 V / 5.2 Ah
3	Battery type	Lithium-ion battery
4	Weight of the battery	1kg
5	Loading time	3-5 hours
6	Power consumption	0.2-0.3 kWh per charge
7	Charging cycles	> 500 times
8	Charger input	100-240V /50/60Hz
9	Charger output	42V / 1.5A
10	Ambient temperature during charging	0°C to 45°C
<b>Parameters of the function</b>		
1	Maximum speed	25km/h
2	Maximum weight	120 kg
3	Lighting	Front LED light
4	Assistance mode	Pedal + motor support
5	Stopping distance (dry condition)	5m (speed at 20km/h)
6	Stopping distance (in wet conditions)	10m (speed at 15km/h)
7	Motorized system	Pedal assistance
8	Working temperature	-10°C to 50°C
<b>Counter</b>		
1	Display	Full perspective LCD display
2	Remaining power	Yes
3	Speed	Yes
4	Total mileage	Yes
5	Speed mode	3 modes (high/medium/low)
<b>Motor</b>		
1	Rated voltage/wattage	36V / 250W
3	Waterproof level	IPX4

**Statement on the sound pressure level:**

The A-weighted emission sound pressure level that can be heard by the driver is less than 70 dB(A).

## 12. DECLARATION OF CONFORMITY

The manufacturer declares that the above-mentioned products comply with all relevant declarations of the Machinery Directive.

Directive -2006/42/EC, Low Voltage Directive 2014/35/EU Product Safety 2001/95/EC, RoHS 2011/65/ EC 2015/863 and Electromagnetic Compatibility 2014/30/EU.

You will find the complete declaration on page 59.



## 13. DISPOSAL

### Our duty to inform according to the Battery Act

In connection with the sale of batteries or with the delivery of devices that contain batteries/ rechargeable batteries/ uchtmittel, we are obliged to inform you of the following:

**Do not dispose of your old appliance with household waste!**

In the case of a removable battery/rechargeable battery or a light source, you must dispose of these separately in the appropriate return system. You can dispose of old appliances/batteries/lamps at the collection points of the public waste disposal authorities ( recycling centers ) and at distributors within the meaning of the ElektroG ( retail trade ) . hand them in. You can also return old devices/batteries/lamps of which LEICKE has similar devices in its range to our dispatch warehouse:

LEICKE GmbH

Ref.: Old appliances/batteries/lamps

Stöhrerstr. 17

04347 Leipzig

You are also responsible for completely deleting any personal data on old devices.

The symbols shown on the batteries have the following meaning:

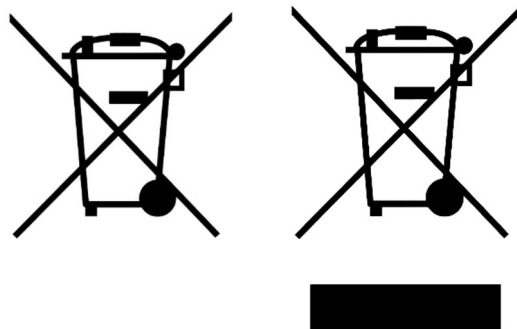
The crossed-out dustbin symbol means that the battery should not be disposed of in the waste bin. household waste.

Pb=Battery contains more than 0.004% lead by mass

Cd=Battery contains more than 0.002 mass percent cadmium

Hg = battery contains more than 0.0005 percent mercury by mass.

Please follow the instructions above.



## 14. IMPRINT

We have made every effort to ensure that the information in this manual  
The product function parameters are subject to change without prior notice.

LEICKE GmbH  
Stöhrerstr. 17  
04347 Leipzig  
info@sachsenrad.de

## 15. WARRANTY

### Manufacturer's warranty/warranty conditions and service for LEICKE e-bikes

#### Warranty and guarantee:

You can assert warranty claims within a maximum period of 24 months, calculated from the date of purchase.  
date of purchase. The warranty is limited to the repair or replacement of the damaged component.  
/ e-bikes and is carried out at our discretion. Our warranty is always free of charge for you.

#### Guarantee on frames:

The frame comes with a 12-month guarantee against breakage. The guarantee starts from the  
Date of purchase. In the event of a frame breakage, we offer you an exchange of the E-bike or a credit note,  
minus a flat-rate usage fee, on presentation of the proof of purchase. The amount of the flat-rate usage fee  
depends on the period since you purchased the e-bike. The warranty does not apply if defects other than defects  
in material and workmanship are found. This also applies if you have drilled holes in the frame, e.g. to attach  
accessories. This also voids the warranty on the electronics of your E-Bike.

#### Warranty on battery:

1. we grant a 12-month warranty on the proper functioning of the battery. The warranty begins from the date of  
purchase. The warranty service is limited to the repair or replacement of the battery and is provided at LEICKE's  
discretion. The warranty service is always free of charge for you. The warranty does not apply if defects other  
than defects in material and workmanship are found. Changes due to wear and tear, such as reduced capacity,  
are expressly excluded from the warranty.

2. the warranty or guarantee claim must be proven by presentation of the buyer's proof of purchase.

3. the investigation of the fault and its causes shall always be carried out by LEICKE. The warranty  
components replaced under the warranty or guarantee shall become our property.

4. in the event of a justified warranty or guarantee claim, the costs of shipping and the costs of delivery shall be  
borne by the customer.  
of removal and installation at the expense of LEICKE.



5. if the E-Bike has been modified by third parties or by the installation of third-party parts, or if defects that have occurred are originally connected with the modification, the warranty and guarantee claim shall lapse. Furthermore, it shall become void if the instructions for handling and using the bicycle given in the operating instructions have not been followed. This applies in particular to the intended use and the care and maintenance instructions.

6. not included in the warranty or guarantee are:

a) Components that are subject to wear, consumption or wear and tear (with the exception of clear materials or manufacturing defects), such as

- Tires - lights - saddle - brake components - kickstand - battery - chain - sprockets - grips - fuse - sprockets - stickers/decals - cables - Bowden cables - etc.

b) Damage attributable to:

- the non-use of original spare parts

- Manipulation of the engine control software (incl. de-throttling, tuning, etc.)

- improper installation of components by the buyer or a third party.

- Damage caused by stone chipping, hail, road salt, industrial fumes, lack of care, unsuitable care products, etc.

c) consumables that are not related to repair work on recognized faults.

d) all maintenance work or other work caused by wear and tear, accidents or operating conditions such as driving without observing the manufacturer's instructions.

e) all occurrences, such as noise, vibrations, color changes, wear, etc., which do not impair the basic and driving characteristics.

f) Costs for maintenance, inspection and cleaning work.

7. the warranty or guarantee entitles the customer to demand only the elimination of the defect.

demand. Claims for return or reduction of the purchase price shall only apply after failure of the rectification.

Compensation for direct or indirect damage shall not be granted.

8. the warranty or guarantee period shall not be extended by the warranty or guarantee period renewed or extended. Assertion after expiry of the period is excluded.

9. warranty and guarantee provisions other than those listed above are only valid if if they are confirmed in writing by Leicke GmbH / SachsenRad.

10. should a technical problem occur with the e-bike you have purchased, please contact us. with the Leicke GmbH / SachsenRad support hotline (Tel: 03412196181).

Contact: LEICKE GmbH,  
Stöhrerstr. 17,  
04347 Leipzig  
info@sachsenrad.de



## 16. RETURN VOUCHER

If you have any questions about your e-bike, please contact our customer service: [info@sachsenrad.de](mailto:info@sachsenrad.de)

Your data				Return address			
Reference no.				Company	LEICKE GmbH		
Name				Street	Stöhrerstraße	Nr.	17
Street		No..		City	Leipzig	PLZ	04347
City		code		Country	Germany		
Country				Ref.	Return SachsenRad		
E-mail							

bought at	
bought on	

E-bike model / item number	
Frame size	
Color	

Please complete this form carefully. All information is voluntary. Incomplete completion will not have any negative impact on your consumer rights, but will complicate and delay the processing of your return.

Reason for return	
Does not like, does not meet expectations	
Shipping carton damaged	
Wrong item was delivered	
No intention to buy	
Delivery time too long	
Delivery incomplete	
Item defective	
Item damaged	

In the event of a defect or damage, please state the reason for the defect. Enter missing parts under Other.  
(see next page)

**Returning - How it works if our customer service was unable to solve your problem.**

**1 Please contact our customer service before returning your product.**

**2. Pack well**

Take your time and pack the item carefully.

Remove old labels and barcodes from the shipping carton.

**3. Fill in the returns slip and put it in the parcel.**

If you have already sent the receipt to us by e-mail, it is sufficient to state the reference number.

**4. Stick the return label on the parcel**

If you do not yet have a return label, simply contact our customer service.

**5. Take the parcel to the post office**

Once the return has been successfully processed, we will send you an e-mail and inform your retailer.

In the event of signs of use or damage, as well as improper shipping, we may be entitled to charge for the resulting reduction in value. Please note the information in your retailer's cancellation policy.

Defect	Description
Battery	
Charger	
Control display (error code)	
Brakes	
Motor	
Handlebars	
Suspension fork	
Wheel	
Light	
Bottom bracket	
Miscellaneous	

If you send this receipt by e-mail, please attach pictures or videos of the defect.

**Contact:**

Phone: 0341 - 218 259 00 | E-Mail: [info@leicke.com](mailto:info@leicke.com)

Web: [www.leicke.de](http://www.leicke.de) | [www.sachsenrad.de](http://www.sachsenrad.de)



# EU Erklärung der Konformität (Doc.)

ver161018

Wir

Firmenname:	Leicke GmbH
Anschrift:	Stöhrerstr. 17
Postleitzahl und Stadt:	04347 Leipzig
Telefonnummer:	0341 2196183
E-Mail-Adresse:	info@leicke.com

erklären Sie, dass das Dokument unter unserer alleinigen Verantwortlichkeit herausgegeben wird und zu dem folgenden Produkt gehört:

Modell / Produkt:	SachsenRad E-Folding Race Bike F12
Type :	BB12167
Charge	
Seriennummer:	

**Gegenstand der Erklärung** (Kennzeichnung des Gerätes zwecks Rückverfolgbarkeit; falls notwendig für die Identifikation kann ein Farbfoto mit genügender Schärfe beigefügt werden):

- Der Motor unterstützt bis zu einer Geschwindigkeit von 25 km/h.
- Die Motor Nenndauerleistung ist maximal 250 Watt.



Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsvorschriften der Union:

Maschinenrichtlinie 2006/42/EU
EMV Richtlinie 2014/30/EU
LVD Richtlinie 2014/35/EU
RoHS 2011/65/EU 2015/863


Die folgenden harmonisierten Standards und technische Spezifikationen sind angewendet worden (Kennnummer, die angewandte Fassung und das Ausgabedatum):

**Titel, Datum des Standards/der Spezifikation:**

EN 15194:2017	EN 55014-1:2006+A1 +A2
EN 61000-3-2:2014; EN 61000-3-3:2013	EN 60335-2-29:2004+A2
DIN EN ISO 4210-1 bis -9:2014/2015	EN 55014-2:2015; EN 62133:2013
EN 50581:2012; EN 60335-1:2012+A11:2014	EN 62233:2008; EN ISO 12100:2010

**Benannte Stelle (falls zutreffend):**

**Kenn-Nummer der benannten Stelle:**

--	--

**Zusätzliche Information:**

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**Unterzeichnet für und im Namen von:**

Leipzig	01.05.2023
(Ausstellungsort)	(Ausstellungsdatum)

Jun Ye, COO
(Name, Funktion, Unterschrift)



# SACHSEN RAD

We wish you  
have a good trip with your  
**E-Folding Bike F12**

