ORIGINAL INSTRUCTIONS

PEDELEC / EPAC



TREKKING

Notes on this manual

Please read this manual extremely carefully and observe the instructions we have provided. These instructions serve your safety and a long service life of your pedelec. This manual contains functional descriptions and equipment variants for different models. Not all of the components or functions described are available on your pedelec. A legal claim to such components or functions does not arise from this documentation.



Please refer to the enclosed CE Declaration of Conformity.

Dear Customer,

You have chosen a product from our company. We would like to thank you for the trust you have placed in us and wish you much enjoyment with your new pedelec.

To ensure that your cycling pleasure lasts as long as possible, we have summarised a lot of useful information about pedelecs/e-bikes in this manual. If you have any further questions or require assistance, please contact the seller of your pedelec or contact us directly by telephone or e-mail.

We wish you a safe journey at all times!

Karcher AG (responsible manufacturer in regard to product safety and liability)

Gewerbestr. 19

75217 Birkenfeld, Germany

Our service is available to you as follows:

Phone: +49 (0)7082/9254-20

e-mail: service@karcher-products.de

Instructions for use:

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We reserve the right to make technical changes to the details and illustrations mentioned here at any time.

The statements published herewith do not claim to be complete. Requirements can also change depending on the state of negotiations of the legislator. Therefore, please follow the publications of official bodies and pay attention to them as a matter of priority and exclusively.

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1 Notes on these operating instructions

Contrary to the standard, EPACs (= Electrically Power Assisted Cycle) are referred to as pedelecs (= pedal electric cycle) in these operating instructions. Pedelecs are vehicles with an electric assist motor that, when you pedal, provides assistance up to a maximum of 25 km/h. A push aid can accelerate the vehicle up to 6 km/h in the first gear of the gear shift. Pedelecs are vehicles that are legally classified as bicycles in some countries. Find out about the country-specific and regional regulations and classification in your country.

1.1 Use and purpose of the operating instructions

These operating instructions contain important information and instructions for the safe and proper operation of the pedelec. The operating instructions and the applicable manufacturer's instructions must be read and understood before commissioning.

1.2 Type plate

The specific type plate is located on the pedelec frame.



Fig. 1 Type plate example

1.	Brand name	7. Maximum permissible total weight
2.	Designation, colour, item number	8. Unladen weight
3.	CE mark	9. Switch-off speed
4.	Address of the manufacturer	10. Nominal power
5.	Place of manufacture	11. Year of manufacture
6.	Standard	12. Bicycle type – EPAC

1.3 Validity of the operating instructions

This user manual is valid for E-Trekking pedelecs.

1.4 Notes on wear

Some components of your pedelec wear out due to their function. How much or how quickly this happens depends on the care, maintenance and type of use of the pedelec (mileage, driving in the rain, dirt, etc.). In particular, pedelecs that are frequently or always outdoors can wear out more quickly due to the weather. Wear parts include in particular, but are not exhaustive: Tyres, brake parts, chains, suspension elements, bearing components, light bulbs, batteries/rechargeable batteries. Such components are not subject to the law on material defects in the case of normal wear and tear, since in this respect there is no defect within the meaning of the law.

1.5 Notes for changes made by the user

If you make changes to the pedelec yourself (especially in the case of tuning), these changes can lead to greater stress on other components and damage to the pedelec. In doing so, you also risk the loss of your insurance cover, possible criminal liability in the event of accidents and the premature loss of your warranty rights. In addition, the changes can lead to an obligation to register the pedelec under road traffic law.

1.6 Retention of documents

Always keep these operating instructions and all applicable manufacturer's instructions for the components within easy reach for further use.

1.7 Symbols used in the operating instructions

Keys:

Press the key 0/M

Press the key +

Press the key -

Numbered sequences of action

- 1. Sequence of action numbered (start)
- 2. Sequence of action numbered (continued)

Continuous text to plot

- · Subordinate (list action)
- Subordinate (list enumeration)

Unnumbered action sequences

- · Action or sequence of actions without a fixed order
- Action or sequence of actions without a fixed order

Continuous text to plot

- · Subordinate (list action)
- Subordinate (list enumeration)

1.8 Illustrations used in the operating instructions

The pictures and graphics used are exemplary. They are intended to help understand the function and operation as well as maintenance and cleaning activities. The positions and illustrations of the components may differ depending on the type of equipment.

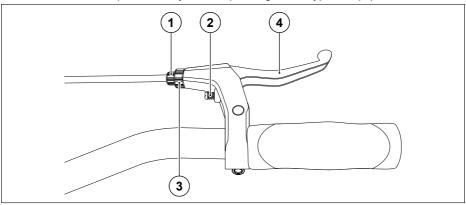


Fig. 2 Structure of the figures

Exemplary figure	Caption	
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2 Safety

2.1 Intended use

Only use the pedelec as described in these operating instructions. Any other use is considered improper and may result in accidents, serious injury or damage to the vehicle.

Depending on the individual case, damage resulting from the improper use of the pedelec may be excluded from the statutory warranty obligations.

The pedelec is intended for use by a person to whose body height the seating position has been adjusted.

The specific categorisation of the pedelec ("Categorisation (use classification)" on page 13) must be observed.

The maximum permissible total weight of the pedelec ("Type plate" on page 8) must not be exceeded.

The pedelec is suitable for the use of a child seat, trailer or hitch system. The installation and use instructions for the respective accessories must be observed.

The A-weighted emission sound pressure level at the driver's ears is less than 70 dB(A).

2.2 Incorrect use

Incorrect use of the pedelec can lead to the exclusion of the warranty.

- Use of the pedelec contrary to the categorisation;
- Improper repairs and maintenance
- Improper use of the battery
- Structural changes, tuning and manipulation of the delivery condition of the pedelec
- Opening and changing of the components of the pedelec
- Deep discharge of the battery due to long charging pauses or improper storage of the battery
- Exceeding of the permissible total weight See "Type plate" on page 8.

2.3 Categorisation (use classification)

The categorisation corresponds to EN 17406 "Classification for bicycles usage". The categorisation of your pedelec is listed on the sticker on the frame.

2.3.1 Category 1

EN 17406	Pedelecs used on normal paved surfaces where the tyres are intended to maintain ground contact at average speed, with occasional drops.
Typical range ø speed	15 km/h to 25 km/h
Max. drop/jump height	< 15 cm
Intended use	Commuting and leisure travel with moderate effort
Bicycle type (example)	City bikes and urban bikes
Recommended operating skills	No special operating skills required

2.3.2 Category 2

2 EN 17406	Pedelecs to which condition 1 applies and which are also used on unpaved roads and gravel paths with moderate uphill and downhill gradients. Under these conditions, contact with uneven terrain and repeated loss of tyre contact with the ground may occur. Drops are limited to 15 cm or less.
Typical range ø speed	15 km/h to 25 km/h
Max. drop/jump height	< 15 cm
Intended use	Leisure rides and trekking with moderate effort
Bicycle type (example)	Trekking and touring bikes
Recommended operating skills	No special operating skills required

2.3.3 Category 3

3 EN 17406	Pedelecs to which conditions 1 and 2 apply and which are also used on rough paths, uneven unpaved roads and difficult terrain and on undeveloped paths, and the use of which requires technical skill. Jumps and drops should be less than 60 cm.
Typical range ø speed	Not relevant
Max. drop/jump height	< 60 cm
Intended use	Sport and competition rides with moderate technical demands of the trails
Bicycle type (example)	Cross-country and marathon bikes
Recommended operating skills	Technical skills and practice required

2.3.4 Category 4

EN 17406	Pedelecs to which conditions 1, 2 and 3 apply and which are used for descents on unpaved roads at speeds of less than 40 km/h. Jumps should be less than 120 cm.
Typical range ø speed	Not relevant
Max. drop/jump height	< 120 cm
Intended use	Sport and competition rides with very challenging technical demands of the trails
Bicycle type (example)	Mountain bikes, trail bikes
Recommended operating skills	Technical skills, practice and good bike control required

2.3.5 Category 5

5 EN 17406	Pedelecs to which conditions 1, 2, 3 and 4 apply and which are used for extreme jumps or descents on unpaved roads at speeds exceeding 40 km/h or for a combination thereof.
Typical range ø speed	Not relevant
Max. drop/jump height	> 120 cm
Intended use	Extreme sports
Bicycle type (example)	Downhill, dirt jump and free-ride bikes
Recommended operating skills	Extreme technical skills, practice and bike control required

2.3.6 Category 6

6 EN 17406	Pedelecs to which condition 1 applies and which are used in competitions or on other occasions at high speeds of more than 50 km/h, for example downhill runs and sprints.
Typical range ø speed	30 km/h to 55 km/h
Max. drop/jump height	< 15 cm
Intended use	Sport and competition rides with high effort
Bicycle type (example)	Road bikes, time bikes and triathlon bikes
Recommended operating skills	Technical skills and practice required

2.4 Labelling of the warnings



DANGER

Immediate danger to life or serious injury.

Failure to follow these safety instructions will result in serious injury, including death.

▶ Be sure to follow the measures described to avoid these dangers.



WARNING

Possible danger to life or serious injury.

Failure to follow these safety instructions can result in serious injury, including death.

▶ Be sure to follow the measures described to avoid these dangers.



CAUTION

Possible minor injuries.

Failure to comply with these safety instructions may result in minor to severe injuries or damage to property and the environment.

▶ Be sure to follow the measures described to avoid these dangers.

NOTE

Damage to the device or the environment.

Failure to observe these safety instructions may result in damage to property and the environment.

▶ Be sure to follow the measures described to avoid these dangers.

2.5 General safety instructions

- Only use the pedelec for its intended purpose.
- Only use the pedelec in accordance with the categorisation.
- Note changed driving behaviour due to optional components.
- Adjust speed and driving style to the traffic, weather and road conditions.
- Function/visual inspection of the pedelec before use.
- Only use the pedelec when all components are working properly.
- Repairs, replacement of components and installation of additional components must be carried out by qualified personnel.
- Have the pedelec checked by qualified personnel after a fall or excessive use.
- Use shoes with non-slip soles.
- Ensure that no loose clothing (ribbons, laces, etc.) get caught in the moving parts of the pedelec.
- Always be ready to brake.

2.6 Special safety instructions

2.6.1 Pedelec-specific components

- Do not drive through deep water.
- · Observe pedelec-specific cycling behaviour.
- Pedelecs and components (battery, charger, etc.) must not be used by children or
 physically or mentally impaired persons or left alone unattended with such persons.
- Familiarise yourself with the pedelec away from road traffic.
- Remove the battery before working on, transporting or storing the pedelec.
- Do not modify, open or replace the motor, battery or control unit.
- Repairs, replacement of components and installation of additional components must be carried out by qualified personnel.
- Use the pedelec's push assist only for pushing and not for cycling.

2.6.2 Risk of electric shock

- Check the battery, charger, cable and mains plug for damage before each use.
- Do not bend the cable.
- Only connect the charger to a socket whose specifications match those on the charger.
- Do not use the battery, charger, cable or mains plug with wet or damp hands.

2.6.3 Explosion hazard

Keep the battery away from fire and other heat sources.

2.6.4 Fire hazard

- Only use the charger under supervision and in dry indoor areas.
- Place the charger and battery on a fireproof surface away from flammable materials when charging.
- · Only use the original charger.
- Only charge the supplied battery and no third-party batteries.
- After charging, pull out the mains plug.
- Do not charge the battery in the immediate vicinity of metal objects.
- Do not short-circuit the battery.

2.6.5 Risk of burns

- Have the battery checked by qualified personnel after a fall or excessive stress.
- · Do not open, disassemble, pierce or deform the battery.
- Only carry a damaged battery with protective clothing (gloves, clothing and goggles).
- In case of contact with battery acid, rinse the affected area with plenty of water and seek medical attention.
- In the event of a battery fire, move away and call the fire brigade.

2.6.6 Interference with medical devices

Keep the battery and charger away from people with pacemakers and inform them.

2.6.7 Risk of burns



- When this symbol is on a component, it indicates that it may become hot.
- After use, allow motor or component that may become hot to cool completely before touching.

2.7 Safety instructions for road traffic

- Wear light-coloured clothing with reflective elements.
- Wear a helmet with a CE mark according to EN 1078.
- Observe and follow country-specific and regional road traffic regulations.
- Only use the pedelec in road traffic if the equipment complies with the country-specific and regional road traffic regulations.
- Use lanes designated for bicycles/pedelecs.
- Regularly obtain information about changes in country-specific and regional road traffic regulations.
- Always have both hands on the handlebars of the pedelec during use.
- Pursue a defensive cycling style.
- Expect incorrect behaviour from other road users.
- Stop to perform activities on the pedelec (switching on lights, stowing luggage, etc.) and other distractions (e.g. smartphone use, etc.).

3 Commissioning

A

WARNING

Danger of accident!

If children play with the packaging or small parts,

they can choke on it and suffocate or injure themselves.

- ► Keep small parts away from children.
- ▶ Do not let children play with the packaging or the pedelec.
- ▶ Do not leave the pedelec unattended during assembly.

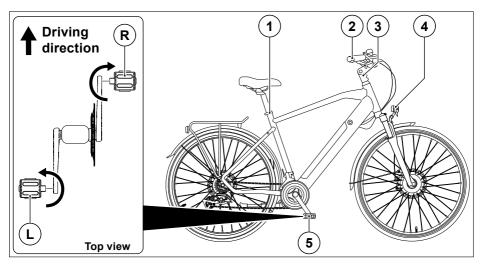


Fig. 3 Commissioning

1.	Saddle clamp	4. Lighting
2.	Handlebars	5. Pedals
3.	Stem	

For shipping reasons, your new pedelec is pre-assembled. This means that not all components and screws are firmly tightened at the factory. They must be fitted/tightened firmly before commissioning:

- · Commission the pedelec immediately after purchase or delivery.
- Pedals, handlebars, handlebar stem and handlebar attachments (e.g. brake lever, gear lever, bell, display/control unit), saddle clamp, headlight and basket/bag (if included) must be adjusted and tightened.

See "Adjusting the seat position" on page 23. See "Tightening torques" on page 80.

3.1 Final assembly



CAUTION

Risk of injury!

Moving parts can trap or crush body parts.

- ▶ Make sure that no body parts or fingers get caught between moving parts.
- ▶ Wear protective gloves.

NOTE

Risk of damage!

Improper final assembly can damage the pedelec and the components.

- ► Carry out work conscientiously and properly.
- ▶ If necessary, have the final assembly carried out by qualified personnel.

The pedelec is pre-assembled and only a few components need to be mounted and adjusted.

- 1. Open the box.
 - · Do not use a sharp object.
- Remove the pedelec.
- 3. Park the pedelec safely. See "Kickstand" on page 69.
- 4. Remove packaging material and dispose of properly.
- 5. Mount the pedals by hand and with mounting grease.
 - Observe the "L" (direction of travel LEFT) and "R" (direction of travel RIGHT) markings.
 - Note the direction of the thread.
- 6. Tighten the pedals with an open-end spanner WAF 15.
- Adjust the handlebars and tighten with a 6 mm Allen key. See "Adjusting the handlebars" on page 62.
- 8. Align the stem at a 90° angle to the front wheel and tighten with a 6 mm Allen key. See "Adjusting the stem inclination" on page 60.
- 9. Adjust the saddle height. See "Saddle and seat post" on page 56.
- Hang the bicycle basket, if included in the scope of delivery, in the holder on the handlebars.
- 11. Check all screws for tightness. See "Tightening torques" on page 80.
- 12. Check the air pressure of the wheels and adjust if necessary. See "Wheels" on page 53.
- 13. Fully charge the battery.

3.2 Before the first ride



WARNING

Danger of accident!

If the minimum insertion depth of the seat post or stem is not observed, the seat post or stem may slip or break.

▶ Observe the minimum insertion depth of the seat post and stem.



A CAUTION

Risk of injury!

Muscle tension/joint pain caused by incorrect seat position.

- ► Correctly adjust the seat position.
- If necessary, have the seat position adjusted by qualified personnel.



A CAUTION

Risk of injury!

Increased risk of injury due to lack of or limited operability.

- ► Correctly adjust the seat position.
- ▶ If necessary, have the seat position adjusted by qualified personnel.

NOTE

Risk of damage!

Failure to observe the minimum insertion depth of the seat post or stem can damage components on the pedelec.

▶ Observe the minimum insertion depth of the seat post and stem.

3.2.1 Adjusting the seat position

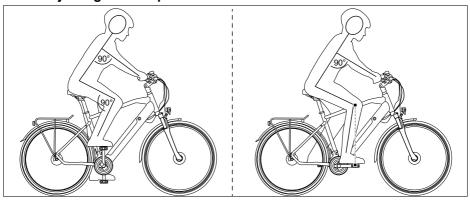


Fig. 4 Optimum seat position

The optimum seat position depends on the cyclist's height, as well as the frame size, intended use and adjustments of the pedelec.

The characteristics of an optimum seat position are as follows:

- The knee angle of the upper leg and arm angle are 90° degrees.
- The front knee is over the axle of the front pedal.
- The arms are relaxed and slightly bent outwards.
- The back is not perpendicular to the seat post.
- The handlebars and all components are adjusted so that all components are safe to operate.
- Watch the video on our website for the correct adjustment of the seat position https://www.karcher-products.de/index.php/erklaer-videos.html



3.2.2 Using a helmet



WARNING

Danger of accident!

Risk of serious injury from falling on the head without a helmet.

▶ Wear a helmet with a CE mark according to EN 1078.

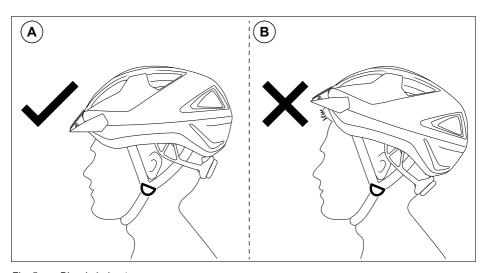


Fig. 5 Bicycle helmet

A. Optimum fit	B. Non-optimum fit
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Wear a bicycle helmet even if there is no legal obligation to do so.

- The helmet should be made according to EN 1078.
- The helmet should have a CE marking.
- Ensure that the helmet fits perfectly.

Before each ride 3.3



A CAUTION

Risk of injury!

There is an increased risk of injury from material breakage due to wear and tear caused by use and loose screw connections.

- ► Check the pedelec and all components before cycling.
- Only use the pedelec when it is in proper condition.

Check the following components before each ride:

- Check the charge status of the battery; if necessary charge the battery completely.
- Check the function of the front wheel, rear wheel and coaster brakes.
- Check the gear shift for proper function and unusual noises.
- Check the quick release for tight closure.
- Check the frame, fork and seat post for damage and wear.
- Check all screws for tightness. See "Tightening torques" on page 80.
- Check the crank drive for proper function and unusual noises.
- Check the handlebars and stem for damage and wear.
- Check the tyres for sufficient pressure, damage and wear.
- Check the rims and spokes for even spoke tension, damage and wear.

4 Pedelec body

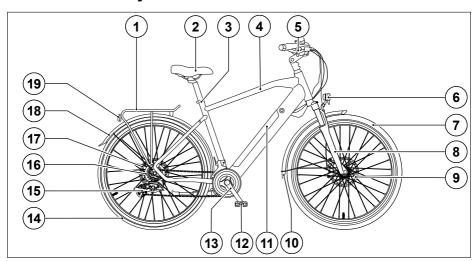


Fig. 6 Pedelec with integrated down tube battery, derailleur gear system and rear-wheel motor

-		
1.	Luggage carrier	11. Integrated down tube battery
2.	Saddle with seat post	12. Pedals
3.	Seat post clamp, with quick release if necessary	13. Crank arm
4.	Frame	14. Rear wheel
5.	Handlebar with attachments	15. Derailleur gear system
6.	Front lighting	16. Rear wheel motor
7.	Front wheel	17. Rear disc brake
8.	Suspension fork	18. Rear mudguard
9.	Front disc brake	19. Rear lighting
10.	. Front mudguard	

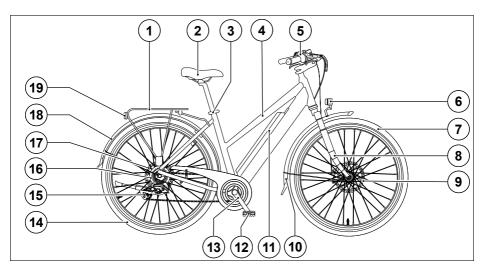


Fig. 7 Pedelec with semi-integrated down tube battery, derailleur gear system and rear wheel motor

-	•	• •
1.	Luggage carrier	11. Down tube battery semi-integrated
2.	Saddle with seat post	12. Pedals
3.	Seat post clamp, with quick release if necessary	13. Crank arm
4.	Frame	14. Rear wheel
5.	Handlebar with attachments	15. Derailleur gear system
6.	Front lighting	16. Rear wheel motor
7.	Front wheel	17. Rear disc brake
8.	Suspension fork	18. Rear mudguard
9.	Front disc brake	19. Rear lighting
10	. Front mudguard	

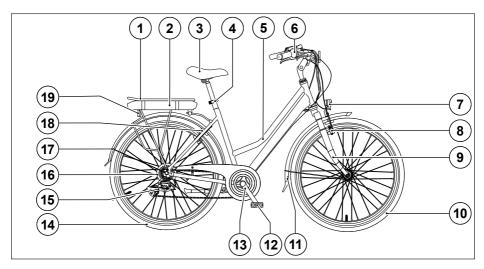


Fig. 8 Pedelec with luggage carrier battery, derailleur gear system and rear-wheel motor

1.	Luggage carrier	11. Front mudguard
2.	Luggage carrier battery	12. Pedals
3.	Saddle with seat post	13. Crank arm
4.	Seat post clamp, with quick release if necessary	14. Rear wheel
5.	Frame	15. Derailleur gear system
6.	Handlebar with attachments	16. Rear wheel motor
7.	Front lighting	17. Rear mudguard
8.	Front rim brake	18. Rear rim brake
9.	Suspension fork	19. Rear lighting
10.	. Front wheel	

5 Pedelec components

5.1 Battery



WARNING

Danger of explosion!

Improper use or handling can cause the battery to explode.

- ▶ Only operate the pedelec with the original battery.
- ▶ Never attempt to charge a damaged battery.
- ▶ Never try to open the battery.
- ► Keep the battery away from fire and water.
- ▶ Protect the battery from overheating due to direct and indirect sunlight.
- ► Observe country-specific requirements.

A

WARNING

Fire hazard!

Improper handling of the battery or use of an incompatible charger may cause a fire.

- ▶ Operate the pedelec exclusively with the original battery
- ▶ Observe the loading instructions and loading conditions.
- ▶ Do not modify or repair the battery.
- ▶ Only charge the original battery and the provided original charger.
- ▶ Keep the battery and charger away from flammable materials during charging.
- ▶ Keep the battery and charger away from metal objects during charging.
- ▶ Place the battery and charger in a dry, fireproof and well-ventilated place during charging.
- ▶ Do not leave the battery and charger unattended during charging.
- ▶ Do not use or charge a damaged and physically intact battery.
- ▶ Do not short-circuit the battery.
- ▶ Inform customer service immediately.



WARNING

Danger of accident!

The handling of the battery by children (< 14 years), persons with sensory, physical or mental limitations (physically disabled or elderly persons with limited abilities) or persons with a lack of experience and knowledge (e.g. older children) can cause a wide variety of accidents.

- ▶ Store the battery out of the reach of children.
- ▶ Do not use the battery as a toy.
- ▶ Battery may only be handled by persons with sensory, physical or mental impairments and by children under 14 years of age under supervision.

NOTE

Risk of damage!

Improper handling can damage the battery.

- ▶ Protect the battery from shocks, mechanical influences, impacts and moisture.
- ▶ Do not use or charge a damaged and physically intact battery.
- ► Contact the customer service immediately.

NOTE

Risk of damage!

Using other chargers may damage the battery.

- ► Only use the original charger.
- ► Fully charge the battery during the first charging procedure (LED on the charger lights up green when the battery is fully charged).

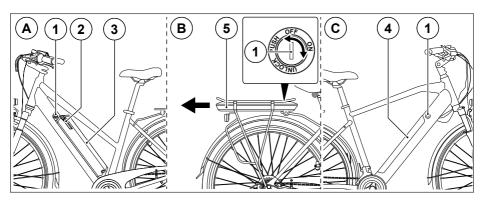


Fig. 9 Removing/inserting the battery

A. Semi-integrated battery	Battery lock
B. Luggage carrier battery	2. Unlocking lever
C. Integrated battery	3. Semi-integrated battery
	4. Integrated battery
	5. Luggage carrier battery

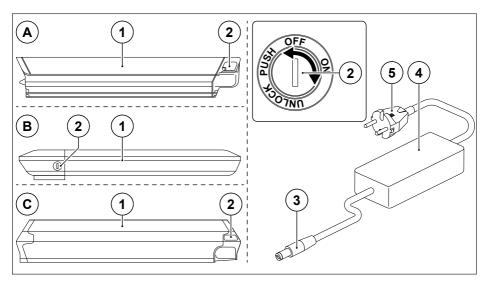


Fig. 10 Charging/activating the battery

A. Semi-integrated battery	1. Battery
B. Luggage carrier battery	2. Battery lock
C. Integrated battery	3. Charging plug
	4. Charger
	5. Mains plug

Depending on the model, the pedelec is equipped with either a semi-integrated battery, a luggage carrier battery or an integrated battery.

The battery of the pedelec is a lithium-ion battery without memory effect. This means you can recharge the battery at any time, regardless of the charge level, without any loss of battery capacity beyond normal wear and tear.

- Fully charge the battery after each trip.
- Switch off the drive system whenever it is not in use.
- Never fully discharge the battery.
- Always recharge the battery during storage (approx. every 3 months).
- Do not expose the battery to high temperature fluctuations.
- Store the battery at room temperature.
- In case of problems with the battery, contact the customer service.
- Battery must not be shipped.

5.1.1 Removing the battery from the pedelec

- 1. Insert the key into the battery lock.
- 2. Turn the key to the "Unlock" position.
- Pull the release lever (depending on the model).
- 4. Remove the battery.

5.1.2 Inserting the battery into the pedelec

- 1. Insert the battery.
- 2. Turn the key to the Off position.
- 3. Pull the key out of the battery lock.

5.1.3 Activating the battery

- Insert the key into the battery lock.
- 2. Turn the key to the On position.
- 3. Switch on the system via the display. See "Display" on page 36.

5.1.4 Deactivating the battery

- 1. Switch off the system via the display. See "Display" on page 36.
- 2. Turn the key to the Off position.
- 3. Pull the key out of the battery lock.

5.1.5 Battery range

- The range depends strongly on external influences such as driving style, environmental influences (wind, temperature), terrain profile/gradient and tyre pressure.
- In addition, the weight and pedalling cadence of the cyclist are decisive for the range.
- It can be ridden in different assistance levels (up to five different levels depending on the equipment). The higher the selected assistance level, the lower the achievable range.
- The range varies from approx. 20 km to approx. 150 km, depending on the battery type and the above-mentioned influences.
- A very high range can be achieved by permanently selecting a low assistance level and a sporty cycling style with a high pedalling cadence.
- The battery is subject to self-discharge after approx. 3 months. Therefore, please be sure to recharge it.

5.1.6 Battery wear

With advancing age and with each individual charging process, the charging capacity of pedelec batteries slowly decreases. Our pedelec batteries are designed for 500 charging cycles.

Up to this number of cycles, the power reduction can be limited to small increments and 80% of the original charging capacity can be reached if the instructions in this user manual are followed.

After falling below this 80% capacity limit, the battery will then also lose further charging capacity in larger increments.

5.2 Motor



A CAUTION

Risk of injury!

Increased risk of burns due to the hot motor.

▶ Let the motor cool down completely after use and before touching it.

The motor has an output of 250 W and can be installed in the following positions on the pedelec:

Rear wheel hub

5.3 Charger



WARNING

Fire hazard!

Improper handling of the charger or use of an incompatible battery can cause a fire.

- ▶ Observe the loading instructions and loading conditions.
- ► Only charge the provided battery.
- ▶ Keep the battery and charger away from flammable materials during charging.
- ▶ Keep the battery and charger away from metal objects during charging.
- ▶ Place the battery and charger in a dry, fireproof and well-ventilated place during charging.
- ▶ Do not leave the battery and charger unattended during charging.



WARNING

Risk of electric shock!

Improper handling of the charger or the power connection may result in an electric shock.

- ▶ Observe the specifications and original operating instructions of the charger.
- Do not use a damaged charger.
- Contact the customer service immediately.

NOTE

Risk of damage!

Charging another battery with the charger may damage the battery and the charger.

- ► Only charge the original battery.
- Follow the manufacturer's instructions.
- Information on the type plate must correspond to the power supply.
 - If there is no compliance, the charger must not be used.

5.3.1 Connecting the battery to the charger

- 1. Insert the charging plug of the charger into the charging socket of the battery.
- 2. Insert the charging plug into the socket.
 - LED red = battery is being charged
 - LED green = battery fully charged

5.3.2 Removing the charger from the battery

- 1. Remove the charging plug from the socket.
- 2. Remove the charging plug of the charger from the charging socket of the battery.

5.4 Display

NOTE

Risk of damage!

The display can be damaged by improper use, moisture, shocks and impacts.

- ▶ Do not subject the display to shocks or impacts.
- ▶ Do not expose the display to moisture or wetness.
- ▶ Do not disconnect the display connections when the display is on.

Depending on the model, the pedelec is equipped with one of the following three display types. Before using the display, the key on the battery must be turned from the Off position to the On position.

5.4.1 KD21C

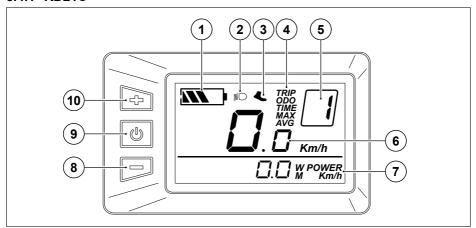


Fig. 11 KD21C

1.	Battery charge status	6. Speed display
2.	Display lighting	7. Driving information display
3.	Push aid display	8. Minus key
4.	Cycling information	9. On/Off button / Menu button
5.	Assistance level	10. Plus key

Switching On/Off

Press the On/Off button for approx. 2 seconds.

Setting the assistance level

You can choose between five support levels, with 1 being the weakest and 5 the strongest assistance level. At 25 km/h, the motor assistance switches off.

- Press the Plus button to increase the assistance level.
- Press the Minus button to reduce the assistance level.

Set driving information

 Press the Menu button to switch between daily odometer, total odometer, trip duration, maximum speed or average speed.

Switching the lighting on and off

• Press the Plus button for approx. 2 seconds.

Switching the push aid on and off

Press the Minus button for approx. 2 seconds.

5.4.2 Ananda D13

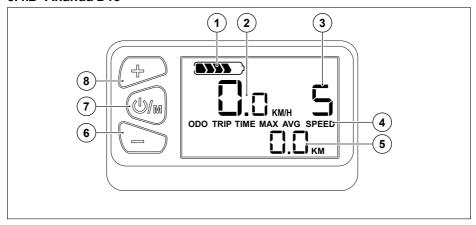


Fig. 12 Ananda D13

1.	Battery charge status	5. Cycling information
2.	Speed display	6. Minus key
3.	Assistance level	7. On/Off button / Menu button
4.	Driving information display	8. Plus key

Switching On/Off

Press the On/Off button for approx. 2 seconds.

Setting the assistance level

You can choose between five support levels, with 1 being the weakest and 5 the strongest assistance level. At 25 km/h, the motor assistance switches off.

- Press the Plus button to increase the assistance level.
- Press the Minus button to reduce the assistance level.

Set driving information

 Press the Menu button repeatedly to switch between daily odometer, total odometer, trip duration, maximum speed or average speed.

To reset the above-listed values (except for total odometer), press and hold the Plus and Minus buttons simultaneously for around five seconds.

Switching the lighting on and off

• Press the Plus button for approx. 2 seconds.

Switching the push aid on and off

• Press the Minus button for approx. 2 seconds.

5.4.3 Ananda D15

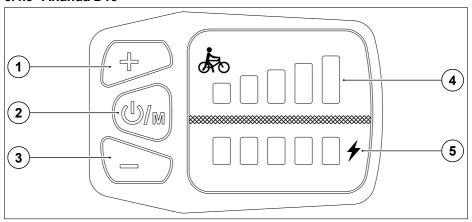


Fig. 13 Ananda D15

1.	Plus key	Assistance level
2.	On/Off button / Menu button	5. Battery charge status
3.	Minus key	

Switching On/Off

• Press the On/Off button for approx. 2 seconds.

Setting the assistance level

You can choose between five support levels, with 1 being the weakest and 5 the strongest assistance level. At 25 km/h, the motor assistance switches off.

- Press the Plus button to increase the assistance level.
- Press the Minus button to reduce the assistance level.

Switching the lighting on and off

• Press the Plus button for approx. 2 seconds.

Switching the push aid on and off

• Press the Minus button for approx. 2 seconds.

5.5 Fork

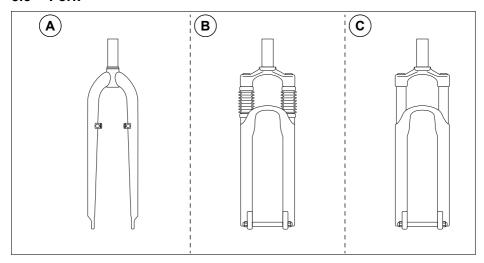


Fig. 14 Fork types

A.	Rigid Uni-Crown Fork	C. Adjustable suspension fork
В.	Suspension fork with elastomer/spring damping	

5.6 Adjustable suspension fork



CAUTION

Risk of injury!

Accidents can occur due to incorrectly adjusted suspension forks.

► Have the adjustment carried out by qualified personnel.

NOTE

Risk of damage!

An incorrectly adjusted suspension can cause impact noises and damage to the suspension fork or individual components.

▶ Have the adjustment carried out by qualified personnel.

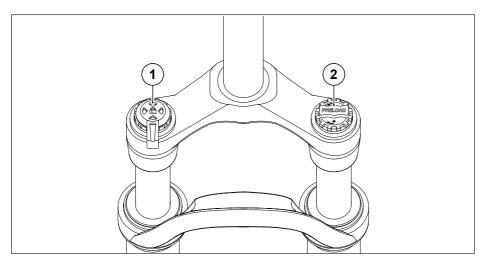


Fig. 15 Adjustable suspension fork

5.6.1 Preload

With the adjustable suspension fork, you can adjust the hardness of the suspension fork to the user's weight by turning the adjustment wheel.

- Turn the adjustment wheel clockwise to increase the spring rate.
- Turn the adjusting wheel anticlockwise to reduce the spring rate.

5.6.2 Lock-out (suspension unlocking/locking)

With the lock-out function, you can lock the suspension fork completely, e.g. if you pedal hard and your progress/cycling comfort is impaired by the suspension.

Note that even with the lock-out function activated, the suspension can compress up to 15 mm when the road surface is uneven.

Depending on the model, you operate the lock-out function with a rotary knob on the right stanchion of the suspension fork or via a remote control on the handlebar.

- Turn the setting wheel clockwise or press the lock button on the remote control to activate the lock-out function.
- Turn the setting wheel anti-clockwise or press the unlock button on the remote control
 to deactivate the activated lock-out function.

5.7 Frame

NOTE

Risk of damage!

Lack of preservation with a suitable bicycle care product can lead to damage and the formation of flash rust on the frame in air containing salt or ammonia.

- ► Clean the frame regularly.
- ▶ Preserve the frame with a suitable bicycle care product at least every 6 months.

The frame of the pedelec is painted with a colourfast lacquer and sealed with a plastic-based clear powder coating.

Depending on the model, you will find the frame number on the control head or on the underside of the bottom bracket.

5.8 Chain drive

NOTE

Risk of damage!

Incorrectly mounted pedals and a chain that is too tight or too loose can lead to increased wear or damage.

- ▶ Note the pedal assignment.
- ▶ Note the chain tension.

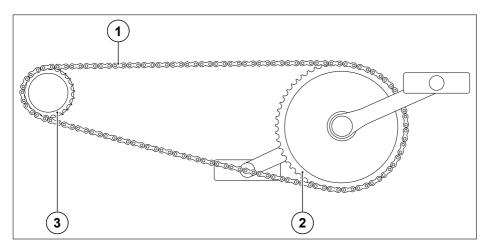


Fig. 16 Chain drive

1.	Chain	3. Pinion
2.	Sprocket	

The pedelec is equipped with a chain drive. The pedelec is propelled with the feet via the pedals and by the rotating movement of the crank arms.

- · Note the pedal assignment.
 - · Observe the "L" and "R" markings.
 - · Observe the thread direction (left-hand or right-hand thread).
- Note the chain tension. See "Checking the chain tension" on page 84.
- Observe wear of chain drive. See "Checking the chain drive for wear" on page 84.

5.9 Gear shift



WARNING

Danger of accident!

The increased distraction when shifting gears increases the risk of accidents.

- ► Familiarise yourself with the gear shift before your first ride.
- ▶ Only operate the gear shift when attention to the traffic is not impaired.

NOTE

Risk of damage!

Increased wear or damage due to incorrect combination of a sprocket and gear rim with a chain that is too tight or too loose.

- ▶ Observe the wiring diagram.
- ▶ Note the chain tension.

5.9.1 Derailleur gear system

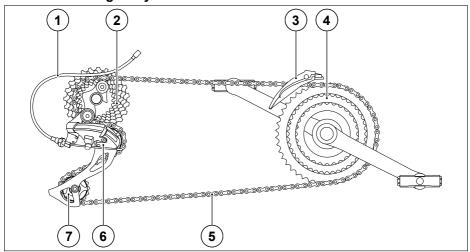


Fig. 17 Derailleur gear system

1.	Rear Bowden cable	5. Chain
2.	Gear rim cassette	6. Front derailleur
3.	Front derailleur	7. Rear derailleur
4.	Front sprockets	

Depending on the model, a pedelec with a derailleur gear system has 1 to 3 differently sized sprockets at the height of the pedals and 7 to 12 differently sized pinions on the gear rim cassette on the rear wheel hub. The different gears result from the different sprocket/pinion combinations through which the chain can run.

The front derailleur is attached to the seat tube next to the front sprocket. The front derailleur guides the chain from one sprocket to the other. The rear derailleur is responsible for changing from one pinion to another on the gear rim cassette. The front and rear derailleurs, i.e. the setting of the desired gear, are usually controlled with two control elements on the handlebars.

For optimal cycling characteristics, it is necessary to increase the assistance level and the gear according to the speed of travel, starting at level 1 in first gear. The same principle applies in reverse when shifting down.

- · Pedal slowly and without effort when shifting gears.
- Shift down in good time before climbs.
- Only operate switching combinations according to the circuit diagram.
- Avoid excessive skewing of the chain.
- Adjust the gear shift if necessary. See "Adjusting the derailleur gear system" on page 88
- Check chain tension regularly. See "Checking the chain tension" on page 84.

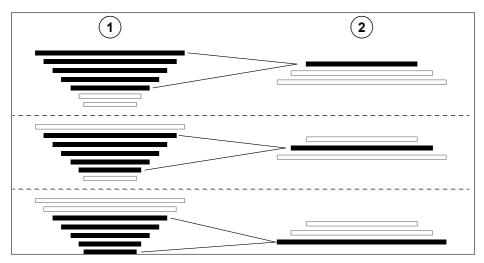


Fig. 18 Circuit diagram

Gear rim cassette	2. Front sprockets

Operation

On the left-hand side of the handlebars is the shift lever for shifting the front sprockets. On the right-hand side of the handlebars is the shift lever for shifting the rear pinions of the gear rim cassette.

Turning the shift lever raises or lowers the gear, depending on the direction of rotation.

High gear ratio (high effort/low pedalling cadence):

If the chain runs through one of the smaller pinions and a large sprocket, pedalling becomes more difficult for the cyclist, but the pedelec covers a greater distance per pedal revolution.

Low gear ratio (low effort/high pedalling cadence):

If the chain runs over one of the larger pinions and a small sprocket, pedalling becomes easier for the cyclist, but the pedelec covers a shorter distance per pedal revolution.

5.10 Chain guard

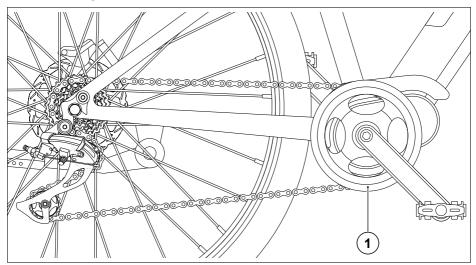


Fig. 19 Front chain guard

1. Front chain guard	
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Depending on the model, the pedelec is equipped with a front chain guard. The front chain guard protects the front sprockets from damage.

5.11 Brakes



WARNING

Danger of accident!

Over-applying the front brake can cause unintended rollovers.

- ► Familiarise yourself with the brakes before your first ride.
- ► Apply the brakes in a controlled manner.
- ▶ Observe the road surface and weather conditions.

5.11.1 Brake lever assignment

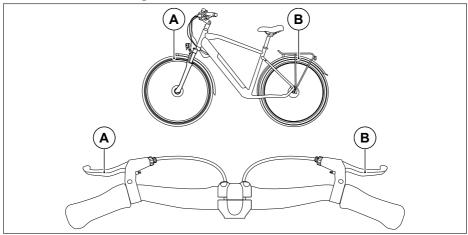


Fig. 20 Brake lever assignment

A. Front wheel	B. Rear wheel
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Depending on the model, the pedelec is equipped with one or two brake levers. On pedelecs with two brake levers, the left brake lever operates the front brake and the right brake lever operates the rear brake. On pedelecs with only one brake lever, the right brake lever operates the front brake. The rear wheel is braked by applying the coaster brake.

- Familiarise yourself with the brake lever assignment before cycling.
- Adjust the brake lever position. See "Adjusting the brake lever position" on page 49.
- Adjust the brake lever. See "Adjusting the brake lever" on page 50.
- Observe the wear limit of the brake pads. See "Changing brake pads" on page 82.

5.11.2 Adjusting the brake lever position

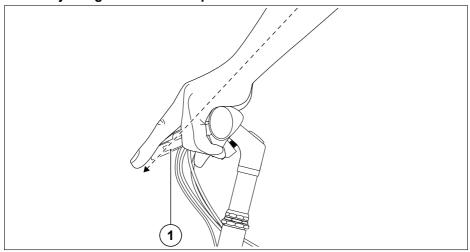


Fig. 21 Brake lever position

Brake lever	
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The brake lever should be aligned with the cyclist's arm to achieve the optimum braking effect at all times.

- Observe the adjustment of the optimum seat position. See "Adjusting the seat position" on page 23.
- 1. Loosen the clamping screw of the brake lever.
- 2. Adjust the brake lever angle.
- 3. Tighten the brake lever clamping screw.

5.11.3 Adjusting the brake lever

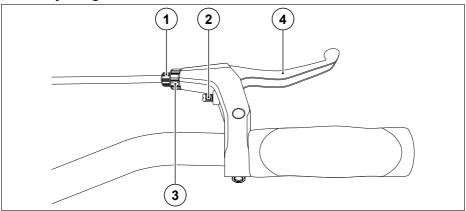


Fig. 22 Brake lever adjustment

1.	Knurled nut	3.	Lock nut
2.	Grip width adjustment screw	4.	Brake lever

The brake lever should be aligned with the cyclist in terms of grip width and brake lever travel/braking force in order to be able to achieve the optimum braking effect at all times.

- 1. Screw in the grip width adjustment screw to reduce the grip width or unscrew it to increase the grip width.
- 2. Screw in the knurled screw to increase the brake lever travel and reduce the braking force or unscrew it to reduce the brake lever travel and increase the braking force.
- 3. Tighten the lock nut against the brake lever holder to fix the adjustments.
- Watch the video on our website for the correct adjustment of the brake levers: https://www.karcher-products.de/index.php/erklaer-videos.html



5.11.4 Disc brake (hydraulic and mechanical)

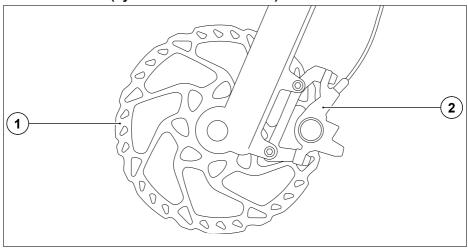


Fig. 23 Rim brake

1. Brake disc	2. Brake calliper

Depending on the model, the pedelec is equipped with mechanical or hydraulic disc brakes front and rear. When the brake lever is operated, brake pistons located in the brake calliper are pressed outwards. The brake pads are pressed against the brake disc by the brake pistons and the pedelec is stopped.

- Brake pads should be between 1 2 mm from the rim and should touch the rim first in the direction of travel at the front.
- Use the front and rear brakes as evenly and simultaneously as possible.
- Observe the road surface and take it into account for the braking distance.
- Observe the wear limit of the brake pads.
- Observe the wear limit of the cable or the brake fluid.

5.11.5 Rim brake

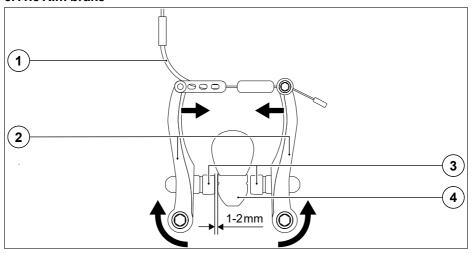


Fig. 24 Rim brake

1.	Brake cable	3.	Brake pad
2.	Brake arms	4.	Rim

Depending on the model, the pedelec is equipped with one or two V-brakes. By pressing the brake lever, the brake cable pulls the brake arms together and the brake pads are pressed against the rim and the pedelec is stopped.

- Brake pads should be between 1 2 mm from the rim and should touch the rim first in the direction of travel at the front.
- Use the front and rear brakes as evenly and simultaneously as possible.
- Observe the road surface and take it into account for the braking distance.
- Observe the wear limit of the brake pads. See "Changing brake pads" on page 82.
- Watch the video on our website for the correct adjustment of the rim brake: https://www.karcher-products.de/index.php/erklaer-videos.html



5.12 Wheels



WARNING

Danger of accident!

Damage can cause the tyres to burst or suddenly lose air while driving.

► Carry out a visual and functional check before each journey.



WARNING

Danger of accident!

Dirty or missing reflectors significantly reduce visibility in road traffic.

- ► Clean dirty reflectors.
- ► Replace missing reflectors.



WARNING

Danger of accident!

Wheels that are not properly centred (concentricity) can cause the rims to break while cycling and the rim brakes to not work effectively.

▶ Have centring carried out by qualified personnel.



CAUTION

Risk of injury!

The wrong tyre pressure can cause falls.

- ▶ Observe the minimum and maximum tyre pressure.
- ► Check the tyre pressure before each journey.

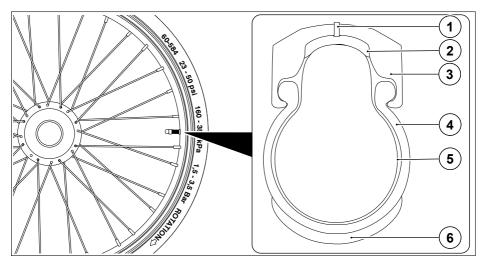


Fig. 25 Wheels

1.	Rim	4. Jacket
2.	Rim tape	5. Hose
3.	Brake flank	6. Tread

Depending on the model, the pedelec wheels are equipped with aluminium box hollow section rims or aluminium double wall hollow section rims, galvanised or stainless-steel spokes, aluminium or steel free-wheel hubs, branded back-pedalling hubs, branded hub dynamos, branded hub motors, category-typical tyres and reflex ring or spoke reflectors.

- Observe tyre information on the sidewalls of the tyre.
- When purchasing a new tyre, note that either a reflective ring or spoke reflectors must be present, as this is a prerequisite for compliance with local road traffic laws.

5.12.1 Valves

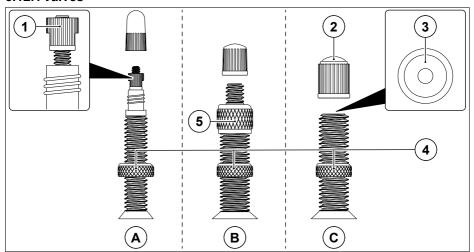


Fig. 26 Valve variants

A.	Sclaverand valve	1.	Knurled nut
B.	Dunlop valve	2. '	Valve cap
C.	Auto valve	3. I	Plunger
		4. I	Knurled nut
		5. \	Valve nut

Depending on the model, the tubes of the pedelec are equipped with Sclaverand, Dunlop or Auto valves.

- Observe tyre inflation pressure on the sidewalls of the tyre.
- Adjust tyre pressure, within the specified range, according to the terrain and the cyclist's weight

5.13 Saddle and seat post



WARNING

Danger of accident!

Failure to maintain the minimum insertion depth of the seat post can cause the seat post to slip or break.

▶ Observe the minimum insertion depth.

NOTE

Risk of damage!

Failure to observe the minimum insertion depth of the seat post can damage components on the pedelec.

▶ Observe the minimum insertion depth.

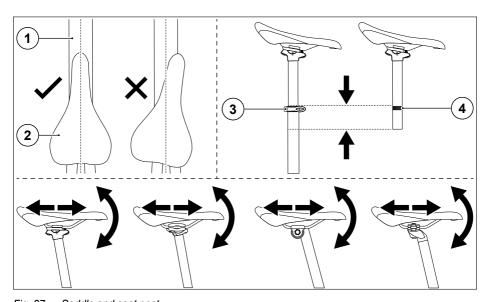


Fig. 27 Saddle and seat post

1. Top tube	3. Quick release
2. Saddle	4. Minimum insertion depth marking

The saddle should be aligned parallel to the top tube and the minimum insertion depth of the seat post must be strictly observed. You can adjust the distance to the handlebars and the inclination of the saddle using the adjustment screw on the saddle.

Depending on the type of saddle, one or more adjustment bolts may be mounted on the saddle.

- Adjust the saddle so that all components on the handlebars can be operated safely.
- Observe the adjustment of the optimum seat position. See "Adjusting the seat position" on page 23.
- Open the seat post clamp or quick release. See "Quick release (depending on model)" on page 64.
- 2. Push the saddle into the seat tube until the minimum insertion depth marking is no longer visible.
 - Ensure that the saddle is parallel to the top tube.
- Close the seat post clamp or quick-release. See "Quick release (depending on model)" on page 64.

5.13.1 Suspension seat post (depending on model)

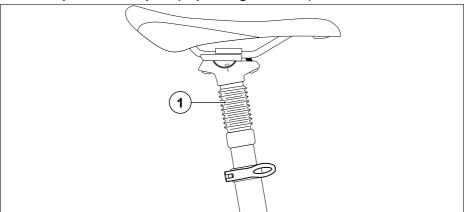


Fig. 28 Suspension seat post

1	Cuonongian	
1 1.	Suspension	

The suspension seat post absorbs shocks and road irregularities at the saddle. By turning the adjusting nut inside the seat post, you can adjust the hardness of the suspension to the user's weight. Turning the adjusting nut clockwise makes the suspension harder. Turning the adjusting nut anticlockwise softens the suspension.

- 1. Dismantle the saddle.
- 2. Adjust the suspension seat post to the cyclist's weight by loosening or tightening.
- Mount the saddle.
 - Observe the adjustment of the optimum seat position. See "Adjusting the seat position" on page 23.
 - Note the adjustment of the saddle. See "Saddle and seat post" on page 56.

5.14 Handlebars and stem



WARNING

Danger of accident!

Failure to maintain the minimum insertion depth of the stem can cause the stem to slip or break.

▶ Observe the minimum insertion depth.

NOTE

Risk of damage!

Failure to observe the minimum insertion depth of the stem can damage components on the pedelec.

▶ Observe the minimum insertion depth.

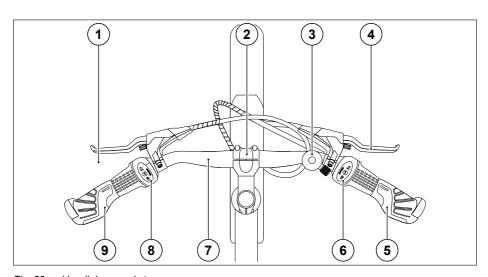


Fig. 29 Handlebars and stem

1.	Brake lever of front brake	6.	Twist shifter with gear indicator (rear pinions of the gear rim cassette)
2.	Stem	7.	Handlebars
3.	Bell	8.	Twist shifter with gear indicator (front sprockets)
4.	Brake lever of rear brake	9.	Left handle
5.	Right handle		

You will find all the important controls of the pedelec on the handlebars.

Adjust all controls in coordination with the optimum seat position ("Adjusting the seat position" on page 23) so that you can operate them all safely while cycling.

- Observe the adjustment of the stem inclination, if present. See "Adjusting the stem inclination" on page 60.
- Observe the adjustment of the stem height. See "Setting the stem height (internally clamped variant)" on page 61.
- Observe the adjustment of the brake lever position. See "Adjusting the brake lever position" on page 49.
- Observe the adjustment of the handlebars. See "Adjusting the handlebars" on page 62.
- Observe the adjustment of the optimal seating position. See "Adjusting the seat position" on page 23.

5.14.1 Stem types

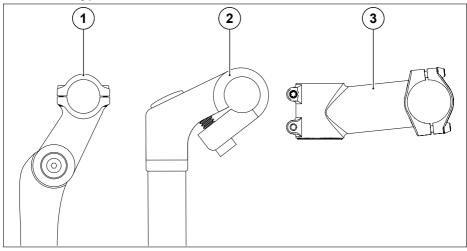


Fig. 30 Stem types

Stem with angle adjustment	Stem without angle adjustment
3. A-headset of stem	

Depending on the model, the pedelec is equipped with an internally clamped stem with or without angle adjustment.

5.14.2 Adjusting the stem inclination

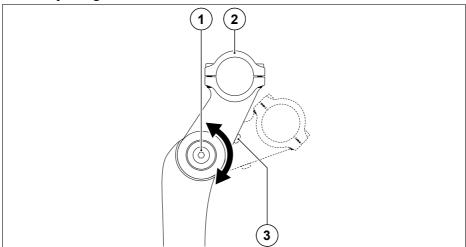


Fig. 31 Adjusting the stem inclination

1.	Angle adjustment screw	3.	Concealed screw for fixation of the angle of the stem
2.	Handlebar clamp		

- 1. Loosen the screw for the fixation of the angle.
- 2. Loosen the angle adjustment screw.
- 3. Adjust the stem angle.
 - Observe the adjustment of the stem height. See "Setting the stem height (internally clamped variant)" on page 61.
 - Observe the adjustment of the handlebars. See "Adjusting the handlebars" on page 62.
 - Observe the adjustment of the optimum seat position. See "Adjusting the seat position" on page 23.
- 4. Tighten the angle adjustment screw.
- 5. Tighten the screw for the fixation of the angle. See "Tightening torques" on page 80.

5.14.3 Setting the stem height (internally clamped variant)

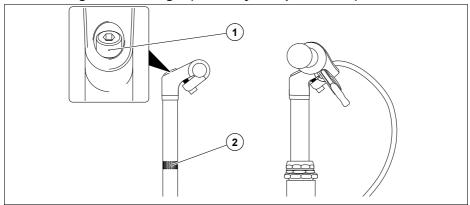


Fig. 32 Height of internally clamped stem

ſ	1 Internal screw	2	Minimum insertion depth marking
- 1	1. IIIIGITIAI SOLEW	۱ ۲۰	wiiniindin inserdon deput marking

The stem with internal clamping must be inserted at least up to the marking of the minimum insertion depth on the stem.

- 1. Remove the cap.
- 2. Loosen the inner screw.
- 3. Push the stem into the head tube at least until the minimum insertion depth mark is no longer visible.
 - Observe 90° alignment of the handlebars to the front wheel. See "Adjusting the handlebars" on page 62.
- 4. Tighten the inner screw. See "Tightening torques" on page 80.
- 5. Insert the cap.

5.14.4 Adjusting the handlebars

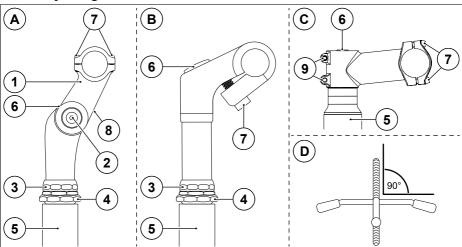


Fig. 33 Adjusting the handlebars

A.	Adjustable stem	3.	Lock nut
B.	Stem	4.	Bearing shell
C.	A-head stem	5.	Head tube
D.	Handlebar-front wheel alignment	6.	Internal clamping screw of stem clamp with cap
1.	Stem head	7.	Clamping screw of handlebar clamp
2.	Angle adjustment screw	8.	Concealed screw for fixation of the angle of the stem
		9.	Clamping screws for the steerer tube

You can adjust the height and angle of the handlebars to the front wheel using the fixing screw in the stem. Depending on the stem type, you can also adjust the height and position of the handlebars using the adjustment screw on the stem.

- Observe the adjustment of the stem height.
 See "Setting the stem height (internally clamped variant)" on page 61.
- Observe the adjustment of the stem inclination, if present.
 See "Adjusting the stem inclination" on page 60.
- Observe the adjustment of the brake lever position.
 See "Adjusting the brake lever position" on page 49.
- Observe the adjustment of the optimal seating position.
 See "Adjusting the seat position" on page 23.

Adjusting the handlebar angle

- 1. If necessary, remove the cover cap for the internal clamping screw of the stem clamp.
- 2. Loosen the internal clamping screw of the stem clamp.
- 3. Adjust the handlebar angle.
- 4. Tighten the internal clamping screw of the stem clamp. See "Tightening torques" on page 80.
- 5. If necessary, reinstall the cover cap for the internal clamping screw of the stem clamp.

Adjusting the handlebar inclination

- 1. Loosen the clamping screws of the handlebar clamp.
- 2. Adjust the handlebar inclination.
- 3. Tighten the handlebar clamping screw. See "Tightening torques" on page 80.
- 4. Loosen the clamping screws of the attachment parts.
- 5. Adjust the angle of the attachments to the angle of the handlebars.
- 6. Tighten the clamping screws of the attachment parts. See "Tightening torques" on page 80.

5.15 Quick release (depending on model)



WARNING

Danger of accident!

Unlocked quick releases can cause accidents.

▶ Before each ride, check that all quick-releases are properly tightened and closed.

NOTE

Risk of damage!

Unlocked quick releases can damage the components of the pedelec.

▶ Before each ride, check that all quick-releases are properly tightened and closed.

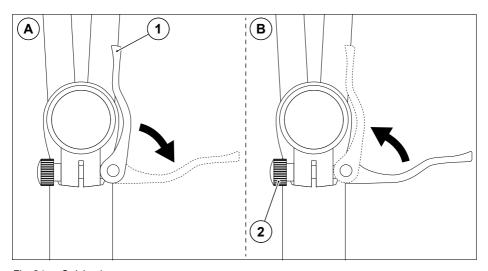


Fig. 34 Quick release

A. Opening the clamping lever	B. Closing the clamping lever
Clamping lever	2. Clamping nut

The quick release is used for quick assembly and disassembly of various components on the pedelec. The quick release is opened and closed by folding the tensioning lever open and closed. The clamping nut is used to adjust the pretension of the quick release.

5.16 Lighting



WARNING

Danger of accident!

Dirty or missing lighting significantly reduces visibility in road traffic.

- ► Clean dirty lighting.
- ► Replace defective or missing lighting.



WARNING

Danger of accident!

The increased distraction when the lights are switched on increases the risk of accidents.

Switch on the lighting before starting the journey or interrupt the journey to switch on the lighting.



WARNING

Danger of accident!

If the lighting is set too high, other road users will be dazzled.

► Adjust the lighting properly.

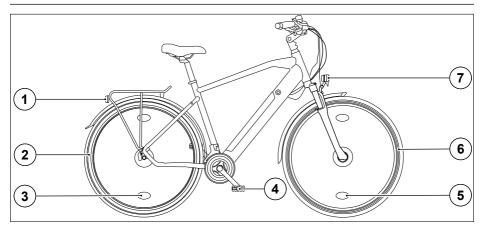


Fig. 35 Lighting

1.	Taillight with rear reflector	5.	Spoke reflector of front wheel
2.	Reflector ring of rear wheel	6.	Reflector ring of front wheel
3.	Spoke reflector of rear wheel	7.	Headlights
4.	Reflector pedal		

Pedelec components

The pedelec's lighting and reflectors are compliant with road safety laws. The minimum illuminance of the headlamps is 10 lux. Use the parking light function so that following traffic can see you.

If the pedelec is equipped with reflector rings on the coats, then spoke reflectors are not necessary. When replacing the mantles, make sure that either reflector rings are present again or spoke reflectors must be used.

- Switch on the lighting in the dark and in poor visibility conditions.
- Observe country-specific and regional regulations.

Lighting setting

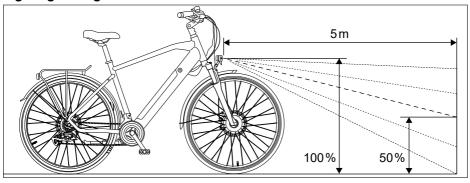


Fig. 36 Lighting setting

The pedelec's lighting must be adjusted so that oncoming traffic is not dazzled. To do so, adjust the lighting so that at a distance of 5 m the headlight cone is only half as high as it was when it came out.

5.17 Luggage carrier



WARNING

Danger of accident!

If the maximum load of the carrier and total weight of the pedelec are exceeded, the driving characteristics change due to the additional weight and the changed dimensions of the pedelec, which can lead to accidents.

- ▶ Do not exceed the maximum load of the carrier and total weight of the pedelec.
- ► Test modified operating characteristics away from road traffic.
- ▶ Adapt your cycling style to the changed operating characteristics.

NOTE

Risk of damage!

Exceeding the maximum load of the carrier and total weight of the pedelec can damage the pedelec.

▶ Do not exceed the maximum load of the carrier and total weight of the pedelec.

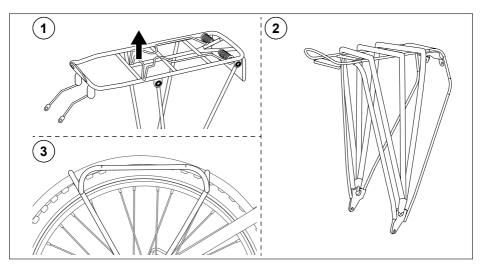


Fig. 37 Luggage carrier types

1.	Luggage carrier with clamping bracket	3.	System luggage carrier
2.	Luggage carrier with tension straps		

Depending on the model, the luggage carrier can have a clamping bracket or tension straps or be a system luggage carrier.

- Observe the permissible total weight of the pedelec.
- Observe the permissible load of the luggage carrier.
 - The maximum load is engraved on the luggage carrier.
- Mount the luggage rack properly. See the manufacturer's instructions for the luggage carrier.
- Transport luggage properly. See "Transporting luggage" on page 75.

5.18 Bell

- 1. Press down the button on the bell.
- 2. Let the button snap back.

5.19 Kickstand

NOTE

Risk of damage!

Climbing onto the pedelec with the kickstand open can damage the pedelec frame and the stand.

► Fold up the kickstand before mounting.

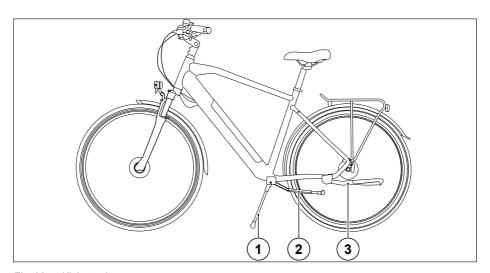


Fig. 38 Kickstand

1.	Middle kickstand opened	3.	Side kickstand folded up to the rear
2.	Middle kickstand folded up		

5.19.1 Opening the kickstand

- 1. Hold the pedelec firmly and open the kickstand with your foot.
- 2. Park the pedelec on the kickstand.
 - · Make sure the ground is stable and level.
- 3. Release the pedelec and, if necessary, secure it against theft or unauthorised use.

5.19.2 Folding up the kickstand

- 1. Remove the anti-theft device.
- 2. Hold the pedelec firmly and fold up the kickstand.

6 Storage

NOTE

Risk of damage!

Improper storage can damage the pedelec.

- ► Store the pedelec properly.
- Clean the pedelec. See "Cleaning" on page 90.
- Remove the battery and recharge it every 3 months. See "Battery" on page 29.
- Shift to the smallest pinions on derailleur gear systems to reduce the load on the Bowden cables. See "Wheels" on page 53.
- Store the pedelec in a dry, frost-free room without large temperature fluctuations.
- Suspend the pedelec from the frame to avoid damage to the wheels/tyres when stationary.

7 Transport

7.1 Transporting the pedelec

NOTE

Risk of damage!

Incorrect use of bike racks can cause damage to the pedelec and the battery.

- ▶ Only use bike racks suitable for pedelecs.
- ▶ Mount the bicycle carrier according to the manufacturer's instructions.
- ► Remove the battery before transport.
- ► Secure the pedelec against slipping and falling.
- ▶ Protect the pedelec, the attachments and all components of the electric drive against moisture.
- Find out about the transport conditions for the battery and the pedelec on public transport before you start your journey.
- 1. Switch off the e-drive and remove the battery.
- 2. Attach the pedelec to the bicycle carrier. See the manufacturer's instructions for the bicycle carrier.

7.2 Transporting children



WARNING

Danger of accident!

Fitting child seats and/or child trailers changes the cycling characteristics due to the additional weight and changed dimensions of the pedelec, which can lead to accidents.

- ▶ Do not exceed maximum load and trailer load
- ▶ Test modified operating characteristics away from road traffic.
- ▶ Adapt your cycling style to the changed operating characteristics.
- Wear suitable cycle helmets.



WARNING

Danger of accident!

Incorrect installation of child seats and child trailers can result in

The pedelec, the child seat and the child trailer may be damaged, which can lead to accidents.

- ▶ Install the child seat and child trailer according to the manufacturer's instructions.
- ▶ Before each journey, check that the child seat and child trailer are properly secured.



CAUTION

Risk of injury!

Moving parts can trap or crush body parts.

- ▶ Make sure that no body parts or fingers get caught between moving parts.
- ▶ Wear protective gloves.

NOTE

Risk of damage!

Incorrect installation of child seats and child trailers can cause damage to the pedelec, child seat and child trailer.

- ▶ Install the child seat and child trailer according to the manufacturer's instructions.
- Only mount the child seat and child trailer on suitable pedelecs.

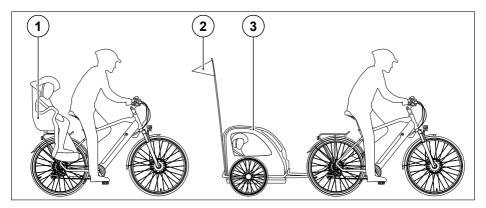


Fig. 39 Transporting children

Child seat	Child trailer
2. Flagpole with pennant	

The transport of children in a child seat or in a transport trailer is only permitted with pedelecs of category 1, 2 and 3. See "Categorisation (use classification)" on page 13. Only transport a child in a child seat or child trailer if the child is younger than 7 years and weighs less than 22 kg. To be allowed to carry a child in a child seat or child trailer, you must be at least 16 years old. Note that the range of the pedelec is reduced by the additional weight. Observe the country-specific and regional regulations for the use of child seats, trailers and hitch systems.

7.2.1 Transporting children in a child seat

- Use a certified child seat.
- Select the type of child seat attachment according to the battery position.
 - For pedelecs with seat tube battery, a child seat must be used for carrier attachment.
 - For pedelecs with a carrier battery, a child seat must be used for frame attachment to the ovalised seat tube.
- Mount the child seat properly on the frame or on the luggage carrier. See the child seat manufacturer's instructions.
- Observe the permissible total weight of the pedelec.
- Observe the permissible load of the luggage carrier.
 - · The maximum load is engraved on the luggage carrier.
- Ensure that all moving components such as saddle springs and suspension seat post are covered.
- Transport the child in accordance with the child seat manufacturer's instructions.

7.2.2 Transporting children in the child trailer

- Use a certified child trailer.
- Mount the child trailer properly. See the manufacturer's instructions for the child trailer.
- Observe the maximum trailer load depending on the maximum permissible total weight of the pedelec.
- Observe the permissible total weight of the pedelec.
- Fit additional flexible bar with pennant in signal colour to identify the child trailer.
- Transport the child in accordance with the manufacturer's instructions for the child carrier.

7.3 Transporting luggage

NOTE

Risk of damage!

Overloading and incorrect loading can damage the pedelec, components and luggage.

- ▶ Note total weight.
- ► Stow luggage properly

Note that the range of the pedelec is reduced by the additional weight.

7.3.1 Transporting luggage on the luggage carrier

- Observe the maximum load engraved on the luggage carrier.
- Observe the permissible total weight of the pedelec.
- Secure luggage adequately.
- Stow luggage so that the lighting is not covered.
- Stow luggage in such a way that none of the pedelec's components are restricted or blocked in their function.
- · Keep the centre of gravity low.
- · Distribute the weight evenly.

7.3.2 Transporting luggage in the trailer

- Mount the trailer professionally. See the trailer manufacturer's instructions.
- Observe the maximum trailer load depending on the maximum permissible total weight of the pedelec.
- Use certified trailer.
- Observe the permissible total weight of the pedelec.
- Secure luggage adequately.
- Stow luggage so that the lighting is not covered.
- Stow luggage in such a way that none of the pedelec's components are restricted or blocked in their function.
- · Keep the centre of gravity low.
- Distribute the weight evenly.

8 Malfunction

8.1 E-drive malfunction

Malfunction	Cause	Remedy
Battery does not charge	Plug connection disconnected	Check of plug connections
	Fuse defective	Replace fuse
	Handbrake lever fixed	Release handbrake lever
	Charger not connected correctly	Connect the charger correctly
	Charger defective	Replace charger
Electric drive does not switch on	Pedalling cadence sensor not correctly aligned	Align the pedalling cadence sensor with a distance of 3 mm to the magnetic disc
	Battery not charged	Charge battery
	Battery not inserted correctly	Inserting the battery correctly

8.2 Malfunctions in general

Malfunction	Cause	Remedy
Cracking/creaking	Pedals loose	Tighten the screw to the specified
bottom bracket	Bottom bracket loose	torque
Lighting does not work	Lighting is switched off	Switch on the lighting on the control panel and on the lighting at the front
	Seat/contact of the cable plug connection disconnected/disturbed	Check cable plug connections and reconnect if necessary
	Bulb defective	Replace bulb
	Side rotor dynamo defective or not switched on	Check position and function of the side rotor dynamo
Brake squeaks / Brake too weak	Brake pads are at the wear limit	Replace brake pads
	Brake is incorrectly adjusted	Brake adjustment
Derailleur gear system does not shift correctly	Derailleur gear system is misaligned	Adjust the derailleur gear system
Hub gear system does not shift correctly	Hub gear system is misaligned	Adjust the hub gear system
Pedals not mountable	Pedals mounted on the wrong side	Pedelec not correctly mounted. See "Commissioning" on page 20

9 Maintenance

By following our maintenance recommendations (in this section) and inspection recommendations ("Inspection certificate" on page 95), you prevent premature wear, reduce the probability of damage and increase the lifespan of your pedelec. Any impairments or defects resulting from non-compliance with important maintenance measures may – depending on the individual case – be excluded from the seller's warranty obligations.

When lubricating and greasing, use only suitable greases without corrosive substances or alcohols:

Bearing: Bearing grease

· Chain: Chain oil

Bowden cables: Bicycle oil/PFTE lubricant

· Hubs: Special grease

9.1 E-drive maintenance schedule

Assembly	Measure	Operating hours/useful life
Battery	Cleaning	According to need
	Function test	Before each journey/at each
		inspection
Motor	Cleaning	According to need
	Function test	Before each journey/at each
		inspection
Display	Cleaning	According to need
	Function test	Before each journey/at each
		inspection
Charger	Cleaning	According to need
	Function test	Before each charging procedure/at
		each inspection

9.2 Maintenance plan in general

Assembly	Measure	Operating hours/useful life
Frame	Cleaning	According to need
Suspension fork	Cleaning	According to need
	Function test	Before each ride
	Oil change	With every inspection
Fork	Function test	With every inspection
	Exchange	Min. every two years
Suspension seat post	Function test	With every inspection
Brakes and brake	Function test	Before each journey/at each
lines	Check wear limit of brake lining	inspection
	Cleaning	With every inspection
Tyres	Function test	Before each journey/at each inspection
	Cleaning	According to need
Hub gear system	Function test	Before each ride
	Cleaning	After each ride
Rim	Check wall thickness (for rim brakes)	After the second brake pad change
	Check concentricity	With every inspection
Derailleur gear	Function test	Before each ride
system	Cleaning	After each ride
Chain/chain	Visual inspection	Before each ride
tension	Cleaning	With every inspection
Attachment parts	Visual inspection	With every inspection
Lighting	Function test	Before each journey/at each inspection
Inner bearing	Function test, dismantle, grease	With every inspection
Chain (from	Function test	Before each ride
1,000 km or 50 operating hours)	Lubricate	With every inspection
Spokes	Check voltage	If required
Hubs	Function test, check bearing clearance, grease	With every inspection
Pedals	Function test, check bearing clearance, grease	With every inspection
Screws/nuts	Check for a tight fit	With every inspection
Valves	Check seat	Before each journey/at each inspection
Lacquer	Preserve	Min. every 6 months

9.3 Tightening torques

NOTE

Risk of damage!

Tightening the components with the wrong torque can cause damage to the respective components.

- ▶ Observe the torque table when tightening the components.
- ▶ If a torque specification is marked on the respective component, this torque is decisive.

9.3.1 Tight fit of all screws

Check the tightness of all screws with a torque spanner with the appropriate adjustment range.

9.3.2 Torque table

For professional tightening of the screw connections, the torque values must be observed. For this purpose, you need a torque spanner with an appropriate setting range.

Assembly	Component	Screw	Nm
Handlebar	Clamp stem	Handlebar clamp bolt	10-14
stem	Clamp stem	Handlebar stem tensioning screw (for tensioning the cone)	24-30
	A-head stem	Handlebar clamp	5-9
	A-head stem	Side fork clamping screws	9-11
	A-head stem	A-head claw	2.5-3
	Angle-adjustable stem	Handlebar clamp	5-9
	Angle-adjustable stem	Angle adjustment screw	17-20
	Angle-adjustable stem	Angle-fixing plate with screw	18-30
Seat post	Candle seat post support	Saddle clamp	15-22
	Patented seat post	Patented head screw (for fixing and positioning the saddle)	15-20
	Seat post clamp	Clamping screw	8-12
Pedals	Forward in the direction of travel		33-35
Crank arms	Steel	Fastening screws	40-50
	Aluminium	Fastening screws	40-50
Impeller	Axle mounting	Cap nuts	35-50
Brake	V-brake	Brake lever	3-7
	V-brake	Brake body screws	5-8
	V-brake	Brake shoe bolts	5-8
	Disc brake	Brake lever	3-7
	Disc brake	Brake disc mounting	5-6
	Disc brake	Brake calliper mounting 5mm	11-12
	Disc brake	Brake calliper mounting 4mm	6-7
other M4	Strength class 8.8		3.5
other M5	Strength class 8.8		7
other M6	Strength class 8.8		13
other M8	Strength class 8.8		28
other M10	Strength class 8.8		50

9.4 Maintenance



A CAUTION

Risk of injury!

Moving parts can trap or crush body parts.

- ▶ Make sure that no body parts or fingers get caught between moving parts.
- ► Wear protective gloves.

NOTE

Risk of damage!

Improper maintenance can damage the pedelec and the components.

- ► Carry out work conscientiously and properly.
- ▶ Have maintenance carried out by qualified personnel.

9.4.1 Changing brake pads

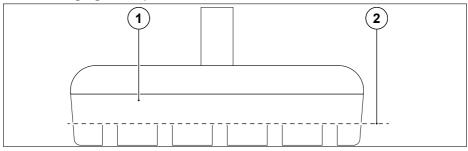


Fig. 40 Changing a brake pad

1. Brake pad	2. Wear limit
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When the brake pads have reached the wear limit, they must be replaced.

- Always replace brake pads on both sides.
- Brake pads must not touch the sidewall of the tyre.
- Brake pads should be between 1 2 mm from the rim and should touch the rim first in the direction of travel at the front.
- 1. Unhook the brake cable.
- 2. Loosen the brake lining screw.
- 3. Remove brake lining.
- 4. Insert new brake pad.
- 5. Align brake pad.
 - · Parallel to the rim
 - · No contact with the tyre
- 6. Slightly tighten the brake lining screw.
- 7. Hook in the brake cable.
- 8. Operate the brake lever.
- 9. Check the position of the brake pads.
- 10. Tighten the brake lining screw.

9.4.2 Checking the chain drive for wear

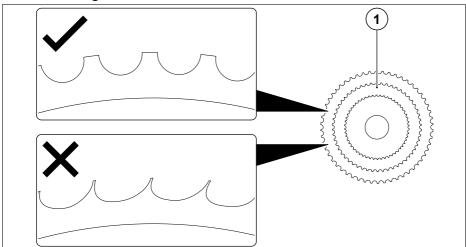


Fig. 41 Gear rim wear

1. Gear rim	
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You must not notice any pointed teeth or "shark teeth" on the sprockets and pinions. If this is the case, have the relevant components replaced by qualified personnel.

9.4.3 Checking the chain tension

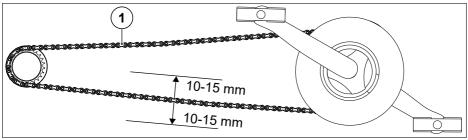


Fig. 42 Check the chain tension

1. Chain	
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The chain should be tensioned so that it can be pushed through a maximum of 10 -15 mm upwards or downwards. If this is not the case, have the chain tension adjusted or the chain changed by qualified personnel.

9.4.4 Removing and fitting wheels

To remove the wheels, the pedelec should be fixed in an assembly stand.

Removing the front wheel

- Unhook the brake cable.
- 2. Loosen the guick release or cap nut on the front wheel.
- 3. Remove the front wheel.

Fit the front wheel.

- Insert front wheel.
- 2. Tighten the quick release or cap nut on the front wheel.
- 3. Hook in the brake cable.

Removing the rear wheel

- 1. Shift the chain to the smallest pinion.
- 2. Unhook the brake cable.
- 3. Loosen the guick release or cap nut on the front wheel.
- 4. Push the rear derailleur backwards.
- 5. Remove the rear wheel.

Fitting the rear wheel.

- 1. Push the rear derailleur backwards.
- 2. Insert the rear wheel.
 - · Position the chain on the smallest pinion.
- 3. Tighten the quick release or cap nut on the rear wheel.
- 4. Hook in the brake cable.

9.4.5 Change tyre/tube

Removing the tyre and inner tube

- 1. Remove the wheel in question. See "Removing and fitting wheels" on page 85.
- 2. Open the valve cap.
- 3. Remove the lower knurled nut and, if present, the upper knurled nut.
 - · See "Valves" on page 55.
- 4. Deflate completely.
- 5. Press the tyre over its entire circumference from the rim flank to the centre of the rim.
- 6. Push the tyre lever approx. 5 cm to the right of the valve between the tyre and the rim.
- 7. Lever the tyre sidewall over the rim and hold the tyre lever in this position.
- 8. Slide the second tyre lever approx. 5 cm to the left of the valve between the rim and the tyre.
- 9. Lever the tyre sidewall over the rim with the second tyre lever.
- 10. Slide the second tyre lever along the rim to release the tyre completely from the rim flank.
- 11. Remove the valve from the rim.
- 12. Pull the tyre and inner tube completely off the rim.

Fitting the tyre and inner tube

- 1. Check rim and tyre for foreign objects and remove if necessary.
- 2. Check the presence and correct fit of the rim tape.
- Place the rim with one rim edge in the tyre.
- 4. Press the tyre sidewall completely over the rim with your thumbs.
- Insert the valve of the tube vertically into the valve hole of the rim so that it points exactly towards the axis of the wheel.
- 6. Inflate the tube slightly so that it takes on a round shape and place it completely inside the tyre.
- 7. Press the tyre as far as possible over the rim with your thumbs.
- 8. Push the tube inside the tyre with your index fingers so that it does not get caught between the tyre and the rim.
 - · Work evenly along the circumference of the tyre to both sides.
- 9. Check the fit of the inner tube and push the tyre over the rim with a tyre lever.
- 10. Press the valve into the inside of the tyre.
 - If necessary, realign the valve.
- 11. Move the half-inflated tyre back and forth several times at right angles to the rolling direction to check that the tube is correctly positioned in the tyre and is not jammed.
- 12. Inflate the tube to the desired tyre inflation pressure.
 - Observe tyre inflation pressure on the sidewalls of the tyre.
- 13. Check the correct fit of the tyre using the control ring on the rim flank.
 - The control ring must have an even distance to the rim on the whole tyre.

9.4.6 Adjusting the derailleur gear system

If the adjustment is not successful or noises occur during operation, have the derailleur gear system adjusted by qualified personnel.

Adjusting the derailleur gear system at the front

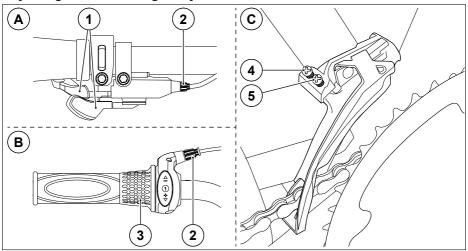


Fig. 43 Derailleur gear system at the front

A.	View of the gear lever	2.	Knurled nut for fine adjustment
B.	View of twist handle	3.	Twist handle
C.	Front derailleur	4.	Stop screw "High" – largest chain sprocket
1.	Gear lever for up/down shifting	5.	Stop screw "Low" – smallest chain sprocket

- 1. Shift the chain to the smallest sprocket.
- 2. Adjust the distance to the inner chain guide to 0.5 1 mm with the stop screw "Low".
- 3. Shift the chain to the largest sprocket
- 4. Adjust the distance to the outer chain guide to 0.5 1 mm with the stop screw "High".
- 5. Make fine adjustments using the knurled nut.
- 6. Carry out a test ride.

Adjusting the derailleur gear system at the rear

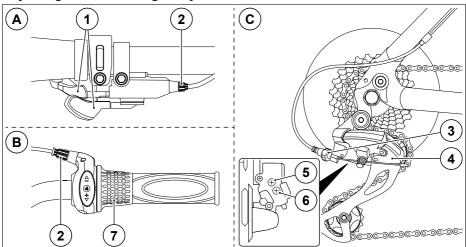


Fig. 44 Derailleur gear system at the rear

A.	View of the gear lever	3.	Tension screw of the rear derailleur
B.	View of twist handle	4.	Rear derailleur
C.	Rear derailleur	5.	Stop screw "High" – smallest gear rim
1.	Gear lever for up/down shifting	6.	Stop screw "Low" – largest gear rim
2.	Knurled nut for fine adjustment	7.	Twist handle

- 1. Shift the chain to the largest sprocket and the smallest gear rim.
- 2. Turn the stop screw "High" until the guide roller is exactly under the smallest gear rim.
- 3. Tighten and fix the shift cable using the tension screw.
- 4. Shift the chain to the smallest sprocket and the largest gear rim.
 - · Make sure that the chain does not touch the spokes.
- 5. If necessary, adjust the guide roller with the stop screw "Low".
- 6. Make fine adjustments using the knurled nut.
- 7. Carry out a test ride.

9.5 Cleaning



WARNING

Risk of electric shock!

Improper handling of the battery, the contacts and the drive during care, maintenance and repair work can result in an electric shock.

- ▶ Remove the battery from the charger.
- ▶ Remove the battery before cleaning the pedelec.
- ▶ Never clean the pedelec and components with running water or other liquids.

NOTE

Risk of damage!

The use of aggressive cleaning agents can damage components of the pedelec.

Use suitable cleaning agents.

NOTE

Risk of damage!

Cleaning with a high-pressure cleaner can damage components of the pedelec.

Never clean the pedelec with a high-pressure cleaner or water jet.

Clean the pedelec and its components regularly.

- Clean with a damp cloth.
- Use mild detergents.
- Keep electrical components clean.
- Visual inspection of the electrical connections, cables and contacts.
- Preserve movable metal components with a suitable care product.
- Do not preserve the rim and disc brake.

Regular cleaning and care prolong the life of wear parts.

10 Disposal

The following information on electrical and electronic (waste) equipment (10.1) applies to Germany. Users in other countries should inform themselves about local laws.

10.1 Information on waste electrical and electronic equipment

The following information is intended for private households that use electrical and/ or electronic equipment. Please observe these important instructions in the interest of environmentally sound disposal of old appliances and your own safety.

 Information on the disposal of waste electrical and electronic equipment and on the meaning of the symbol according to Annex 3 of ElektroG (German Electrical and Electronic Equipment Act)

According to Section 2 Para. 1 ElektroG, pedelecs are category 4 appliances (large appliances).

Owners of waste appliances must dispose of them separately from unsorted municipal waste. Waste electrical and electronic equipment (WEEE) must therefore not be disposed of as unsorted municipal waste and in particular does not belong in household waste. Instead, these waste appliances are to be collected separately and disposed of, for example, via the local collection and return systems.

Owners of waste electrical and electronic equipment must also separate spent batteries and accumulators that are not enclosed in the waste electrical and electronic equipment, as well as lamps that can be removed from the waste electrical and electronic equipment without destroying it, from the waste electrical and electronic equipment before handing it in at a collection point.

The latter does not apply insofar as the waste electrical and electronic equipment is separated from other waste electrical and electronic equipment in accordance with Article 14 Para. 4 Sentence 4 or Para. 5 Sentences 2 and 3 within the scope of opting out by the public waste management authorities for the purpose of preparing it for reuse.

By means of the symbol in accordance with Annex 3 to the ElektroG, owners can recognise old appliances that are to be collected separately from unsorted municipal waste at the end of their service life. The symbol for the separate collection of electrical and electronic equipment represents a crossed-out wheeled bin and is designed as follows:



2. Free return of waste equipment by distributors

Distributors (any natural or legal person or partnership offering or making electrical and electronic equipment available on the market) with a sales area for electrical and electronic equipment of at least 400 m² (in the case of distribution using means of distance communication, instead with storage and dispatch areas for electrical and electronic equipment of at least 400 m²) and distributors of foodstuffs with a total sales area of at least 800 m², who offer and make electrical and electronic equipment available on the market several times per calendar year or on a permanent basis (in the case of distribution using means of distance communication, instead with total storage and dispatch areas of at least 800 m²) are obliged to take back waste electrical and electronic equipment free of charge from end users as follows:

 Return/collection in case of purchase of a new appliance and delivery to a private household

When concluding a sales contract for a new electrical or electronic appliance, the distributor is obliged to take back a waste appliance of the same type that fulfils essentially the same functions as the new appliance free of charge.

If the place of delivery is a private household, the return is implemented by a free pick-up. For this purpose, a waste appliance of the same type with essentially the same functions can be handed over to the delivering transport company when the new appliance is delivered.

If the new appliance is sold exclusively by means of distance communication (Section 312c (2) BGB (German Commercial Code)), the following applies restrictively:

- Free collection of an end-of-life appliance of the same type and function is only
 possible if it is a category 1 appliance (heat exchangers), 2 (screens, monitors,
 appliances with screens with a surface area of more than 100 cm²) and/or 4 (large
 appliances where at least one of the external dimensions is more than 50 cm).
- If instead it is a waste appliance of category 3, 5 and/or 6, free collection does not take place and instead the following letter b) applies to the free return.
- b) Return when buying a new appliance and handing it in elsewhere/return of small appliances

When concluding a sales contract for a new electrical appliance that is not being delivered to a private household and when selling a new appliance of categories 3, 5 and/or 6 exclusively by means of distance communication (Section 312c (2) BGB (German Civil Code)) with delivery to private households, there is the possibility to return a waste appliance of the same type that essentially fulfils the same functions as the new appliance to the distributor free of charge.

The same possibility also exists for waste appliances that are not larger than 25 cm in any external dimension, irrespective of the purchase of a new electrical or electronic appliance. In this case, the return option by the end user to the distributor is limited to 3 waste appliances per appliance type.

In the case of distribution exclusively using means of distance communication (§ 312c para. 2 BGB (German Civil Code)), the return shall be made of the following under the above-mentioned conditions:

- Waste appliances of categories 3, 5 and/or 6
- · Waste appliances that are not larger than 25 cm in any external dimension,

through suitable return options within a reasonable distance from the respective end user.

Otherwise, the return shall take place at the place of delivery or in the immediate vicinity thereof. Distributors must have set up suitable return facilities for this purpose.

3. Information on the possibilities for returning waste appliances

We currently provide information on the return options we have created for waste electrical appliances at:

https://www.karcher-products.de/index.php/Entsorgungshinweise.html

Owners of waste appliances can hand them in within the scope of the possibilities for the return or collection of waste appliances set up and available by public waste management authorities, thus ensuring the proper disposal of waste appliances. If applicable, it is also possible to hand in electrical and electronic equipment there for the purpose of reusing the equipment. For more information, please contact the respective collection or return point.

4. Note on data protection

Some of the old devices to be disposed of contain sensitive personal data (e.g. on a PC or smartphone) that must not fall into the hands of third parties.

We expressly point out that end users of old devices must take responsibility for the deletion of personal data on the old devices to be disposed of.

5. Note on our WEEE registration number

We are registered with the Stiftung Elektro-Altgeräte Register, Nordostpark 72 in 90411 Nuremberg, Germany, as a manufacturer of electrical and/or electronic equipment under the following registration number (WEEE Reg. No. DE): 25822316

10.2 Disposing of the battery



Non-rechargeable and rechargeable batteries must not be disposed of with household waste. Consumers are legally obliged to take non-rechargeable and rechargeable batteries to a separate collection point. Non-rechargeable and rechargeable batteries can be handed in free of charge at a collection point in your

municipality/district or in shops so that they can be disposed of in an environmentally friendly way and valuable raw materials can be recovered. In case of improper disposal, toxic ingredients may be released into the environment, causing adverse health effects to humans, animals and plants. Non-rechargeable and rechargeable batteries contained in electrical appliances must be disposed of separately from them whenever possible. Only return non-rechargeable and rechargeable batteries when they are discharged. For lithium-containing non-rechargeable and rechargeable batteries, tape off the terminals before disposal to prevent external short-circuiting. A short circuit can lead to a fire or explosion.

10.3 Disposing of packaging

Dispose of the packaging properly, taking into account the country-specific disposal regulations.

10.4 Disposing of lubricants and care products

Dispose of the lubricants and care products properly, taking into account the country-specific disposal regulations. Follow the manufacturer's instructions on the packaging.

10.5 Disposing of tyres and inner tubes

Dispose of the tyres and inner tubes properly, taking into account the country-specific disposal regulations.

11 Inspection certificate

1. Inspection - After 300 km or 3 months after purchase at the latest		
Work carried out / remarks:		
Material used:	Date, stamp/signature of specialist dealer:	
2. Inspection - After 2000 km or annually	,	
Work carried out / remarks:		
Material used:	Date, stamp/signature of specialist dealer:	
3. Inspection - After 4000 km or annually	,	
Work carried out / remarks:		
Material used:	Date, stamp/signature of specialist dealer:	

4. Inspection - After 6000 km or annually	•
Work carried out / remarks:	
Material used:	Date, stamp/signature of specialist dealer:
5. Inspection - After 8000 km or annually	1
Work carried out / remarks:	
Material used:	Date, stamp/signature of specialist dealer:
6. Inspection - After 10000 km or annual	ly
Work carried out / remarks:	
Material used:	Date, stamp/signature of specialist dealer:

7. Inspection - After 12000 km or annual	ly
Work carried out / remarks:	
Material used:	Date, stamp/signature of specialist dealer:
8. Inspection - After 14000 km or annual	h.
	ıy
Work carried out / remarks:	
Material used:	Date, stamp/signature of specialist dealer:
	Bato, stampolynatare of openalist addition
9. Inspection - After 18000 km or annual	ly
Work carried out / remarks:	
Material used:	Date, stamp/signature of specialist dealer:

12 Pedelec passport

The pedelec passport can be used to describe your pedelec to the police or insurance company in the event of theft. Therefore, fill it out completely immediately after purchase and keep it in a safe place.

In the event of a warranty claim, it is helpful if you present the proof of purchase or delivery note and the bicycle passport. This ensures you can easily prove the responsible seller and the time of purchase/delivery and helps us to process your claim.

Frame no:			
Brand:		Model designation:	
EAN:		Key no.:	
Purchase date:		Purchase price:	
Туре:	City Trekking MTB Hardtail MTB Full Suspension Folding bike	Frame type:	Men Ladies Unisex
Motor	Front motor Mid-mounted motor Rear motor		
Frame colour:		Rim colour:	
Fork colour:			
Tyre size:		Special equipment:	
Owner		Seller	
Surname:		Surname:	
First name:		First name:	
Street:		Street:	
POSTCODE:		POSTCODE:	
City:		City:	
Phone:		Phone:	
E-mail:		E-mail:	
Luggage carrier:			
Child seat:			
Trailer operation:			
Public road traffic			

13 Notes

