

WALDBIKE

BLACK FOREST MANUFACTURED

Quick Guide

English

Sorbus City SUV

Tilia City SUV

Quercus Carbon Fully

Quercus Carbon Fully Ltd Edition Musco

Quercus SUV



1 Risk of injury and damage!

This Quick Guide does not replace the full instruction manual! You can find the full instruction manual on the website <https://www.waldbike.de/anleitungen-und-downloads>.

→ Be sure to observe all the safety instructions given in the instruction manual. If you do not observe the warnings and notes in the instruction manual, this can lead to serious injuries and damage to the pedelec.

1.1 First settings

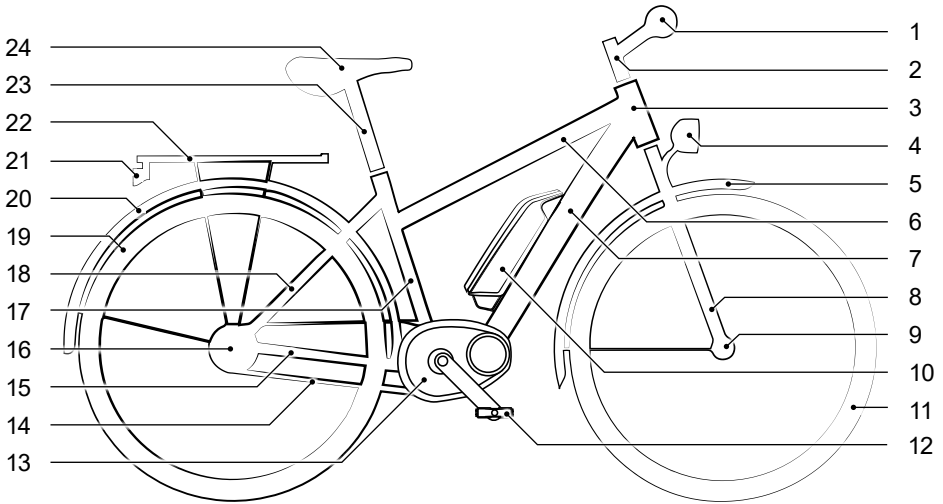
1. Unpack your bike and park it safely. You can also find the unboxing video at: <https://www.waldbike.de/anleitungen-und-downloads>
2. Loosen the 2 clamping screws on the stem or steering head, straighten the handlebars and make sure they are aligned correctly.
3. Now tighten the 2 clamping screws again with a torque of 5 Nm.
4. The pedals are already correctly mounted when your Waldbike is delivered.
5. Before the first ride, check the correct function of the following parts for safety:
 - Front brake
 - Rear brake
 - Gearshift



Important note: Waldbikes are delivered with broken-in brake pads. Nevertheless, please make sure that you check the function of the brakes on your first ride or complete the braking process in order to reach full braking power.

2 Pedelec parts

i This illustration may vary depending on the pedelec model or equipment selected. Read the special instructions for your equipment in the corresponding sections.



- | | |
|-------------------------|--------------------------|
| 1 Handlebar | 13 Motor |
| 2 Handlebar stem | 14 Chain |
| 3 Steering head tube | 15 Bottom chainstay tube |
| 4 Headlamp | 16 Rear wheel hub |
| 5 Front mudguard | 17 Seat tube |
| 6 Top tube | 18 Top chainstay strut |
| 7 Bottom tube | 19 Rear wheel |
| 8 Fork | 20 Rear mudguard |
| 9 Front wheel hub | 21 Tail lamp |
| 10 Rechargeable battery | 22 Luggage carrier |
| 11 Front wheel | 23 Seatpost |
| 12 Pedal | 24 Saddle |

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3 Safety

This section contains information on how to use your pedelec safely.

3.1 Instructions for safe use

Observe the following information on safe use of your pedelec to reduce the risk of you having an accident or sustaining an injury:

- Please use the pedelec only if you are fully acquainted with the operation of the pedelec and all of its functions.
- Always use the pedelec as described in the section on intended use.
- Do not allow persons with reduced physical, sensory or mental abilities or a lack of experience or knowledge to use the pedelec.
- Do not allow children to play with the pedelec.
- Protect your pedelec from unauthorised access – for example, by using a lock or removing the battery.
- Do not allow children to clean, maintain or service the pedelec.
- If you do not have the necessary know-how and tools to make adjustments and repairs, have a bicycle dealer perform them.
- The A-weighted emission sound pressure level at the driver's ears is less than 70 db(A).

3.2 Warning information

The purpose of warning information is to draw your attention to potential dangers. Warning information requires your full attention and understanding of the statements provided. Ignoring a warning can result in injury to yourself or others. The warnings themselves do not prevent dangers. Follow all warning notes to avoid risks when using the pedelec.

The warnings in this Quick Guide have the following meanings:



WARNING

The signal word denotes a medium risk that can cause death or a serious injury if not avoided.



CAUTION

The signal word denotes a low risk that can cause a slight or minor injury if not avoided.

NOTE

The signal word warns of possible material damage.

3.3 General safety information

In the interests of your own safety, please note the following safety information:



WARNING

Wet, slippery or dirty roads can increase the braking distance or impair the traction of your bicycle.

Risk of accident and injury!

- ▶ Adapt your riding style and speed to the weather and road conditions.
-



CAUTION

Flat shoes can easily slip from the pedals.

Risk of injury!

- ▶ Wear shoes with a slip-resistant sole.
-



CAUTION

Using a bicycle rest handlebar or aero bar restricts the range of the operating elements and increases the overall stopping distance.

Risk of injury!

- ▶ Ride with care and adapt your riding style accordingly.
-



CAUTION

Items of clothing and body parts may become entangled in moving parts on the pedelec.

Risk of injury!

- ▶ Do not allow loose straps or cords such as shoelaces or jacket straps to hang down.
 - ▶ Wear close-fitting clothing or use bicycle clips.
 - ▶ Before cleaning or maintenance, identify all moving parts of the pedelec.
-

NOTE

Using your pedelec incorrectly or improperly can cause certain pedelec components to wear or damage more quickly or even break.

Risk of damage!

- ▶ Do not ride the pedelec over steps or other types of ledges.
 - ▶ Do not use your pedelec to jump over ramps or mounds of earth.
 - ▶ Do not ride your pedelec on fast downhill gradients.
 - ▶ Do not ride your pedelec through deep water.
 - ▶ Observe the maximum permitted total weight of the pedelec.
 - ▶ Observe the pedelec's temperature limits.
 - ▶ Observe the tyre inflation pressure.
-

3.4 Safety notes for the charger



WARNING

Incorrect handling of electrical current and live components can result in electric shock and serious injury.

Risk of electric shock and injury!

- ▶ Check the charger, mains cord and mains plug for damage before each use.
 - ▶ Do not use the charger if you know or suspect that the charger is damaged.
 - ▶ Only use the charger indoors and under supervision.
 - ▶ Only connect the charger to a properly installed outlet.
 - ▶ Do not let the charger come in contact with water or other fluids.
-

NOTE

The charger can be damaged if used improperly.

Risk of damage!

- ▶ When charging, place the charger on fireproof materials.
 - ▶ Only charge the original rechargeable battery with the charger.
 - ▶ Pull the mains plug out of the socket after charging.
 - ▶ Observe additional safety notes for the charger.
-

3.5 Safety notes for the rechargeable battery



WARNING

Gases or liquids can be released if the rechargeable battery catches fire, potentially leading to serious injury.

Risk of injury!

- ▶ Immediately remove from the fire.
 - ▶ Maintain a safe distance from the fire and attempt to close off the area.
 - ▶ Call the fire department.
-



WARNING

Internal damage to the rechargeable battery can cause overheating and gases and liquids may leak.

Risk of fire and explosion!

- ▶ Have a bicycle dealer check the rechargeable battery after a fall or heavy impact.
 - ▶ Do not open, take apart, puncture or deform the rechargeable battery and battery case.
-



CAUTION

Lithium leaking from a damaged rechargeable battery can injure skin or eyes.

Risk of injury!

- ▶ Only handle damaged rechargeable batteries wearing protective gloves.
 - ▶ Wear protective goggles and protective clothing when handling damaged rechargeable batteries.
-

NOTE

The rechargeable battery can be damaged if used improperly.

Risk of damage!

- ▶ In the event that the rechargeable battery could be damaged, do not charge it.
 - ▶ Place the rechargeable battery on fireproof materials when charging.
 - ▶ Only charge the rechargeable battery using the original charger.
 - ▶ Keep the rechargeable battery away from fire and other sources of heat.
 - ▶ Do not let the rechargeable battery come in contact with water or other fluids.
-

3.6 Road safety

Observe the following general safety information to increase overall levels of safety when riding your pedelec on the road:

- Only use your pedelec on the road if the equipment fitted meets the road traffic regulations applicable in your country.
- Observe and respect all national and regional road traffic regulations.
- Always ride your bicycle wearing a suitable bicycle helmet that has been certified according to standard DIN EN 1078 and bears the CE mark.
- Wear bright clothing with reflective elements while riding.
- Do not ride your pedelec if you have consumed alcohol, narcotics or medicines which may impair your ability to ride.

- Do not operate mobile devices such as smartphones or MP3 players while riding.
- Do not allow yourself to be distracted by other activities during your journey, such as switching on your light.
- Never ride the pedelec without hands.



Please note that road traffic also includes private land, forest paths and dirt roads when they are publicly accessible.

Increase your overall safety on the roads by also observing the following instructions:

- For more information about the road traffic regulations currently applicable in your country or region, contact an organisation such as the Department of Transport.
- Ensure that you regularly obtain information regarding changes to the content of the regulations in force.
- Ride carefully and with consideration for other road users.
- Ride in such a way that nobody suffers injury, is endangered, incapacitated or disturbed.
- Always use lanes and paths reserved specifically for bicycles.

3.7 Tuning or modifications



WARNING

Tuning or speed manipulation of your pedelec can negatively affect the braking and driving behaviour and lead to accidents and injuries.

Risk of accident and injury!

- ▶ Do not make any structural changes.
-



CAUTION

The pedelec may behave differently than you expect after changes to the drive system.

Risk of injury!

- ▶ Do not make any structural changes to the drive system.
-

NOTE

Tuning your pedelec can cause irreparable damage.

Risk of damage!

- ▶ Do not make any structural changes to the drive system.
-

- Tuning can cause irreparable damage to your pedelec.
- Frame, wheels and brakes are not designed for higher speeds.
- Any modification of the drive system or the ABS system leads to the exclusion of the warranty or other claims for compensation.
- Tuning your pedelec has legal consequences.

- Pedelec speeds above 25 km/h require a driving licence and insurance including a registration number.
- Riders of pedelecs with a speed above 25 km/h are subject to compulsory helmet use.
- Any modification of the drive system will result in the loss of the driving licence.
- Any modification of the drive system will result in the loss of insurance cover (private liability).
- In the event of a repeat offence, an entry may be made in the criminal record (criminal record).
- Any modification of the drive system will result in the loss of the declaration of conformity (CE).

Any modification of the drive system precludes participation in road traffic.

- Tuning and manipulation of the cargo bike typically includes
- conversion of the speed sensor,
- installation of a tuning chip,
- replacement of sprockets with parts that do not correspond to the specification (number of teeth) of the original parts and other changes to the hardware components,
- changes to the control software.

Tuning and tampering with the cargo bike/speed cargo bike may have legal consequences for the user.

Possible consequences are:

- an administrative offence and a fine,
- a criminal offence for driving without a licence, and in the event of a repeat offence, possibly an entry in the criminal record,
- revocation of the driving licence,
- loss of insurance cover under a personal liability insurance policy,
- loss of liability for material defects, the guarantee and warranty claims,
- partial fault in the event of an accident.

For more information, ask your dealer for the component replacement guide.

3.8 Additional regulations

For use in road traffic, pedelecs must be equipped with two brakes, which operate independently of one another, and a bell.

3.9 Replacing components



WARNING

Replacing components with incorrectly selected replacement parts may prevent the pedelec from functioning correctly.

Risk of accident and injury!

- ▶ Only have components replaced by a bicycle dealer!
 - ▶ Always use original replacement parts.
-

3.10 Misuse

Do not use your pedelec in the following manners to ensure safe use of your pedelec:

- in competitions, on jumps, in stunts or for tricks;
- improper repairs and maintenance;
- improper use of the rechargeable battery;
- structural changes to the pedelec's factory default, in particular tuning and any other modification of the pedelec;
- opening and changing components of the pedelec;
- Charging outside the temperature range of +5 °C to +45 °C;
- Deep discharge of the rechargeable battery due to charging breaks of more than 3 months or improper storage of the rechargeable battery outside the optimum storage temperature of +10 °C to +25 °C.



Misuse of the pedelec may void the warranty.

3.11 Residual risks

Even if you observe all the safety and warning instructions, you may still be exposed to the following unforeseeable residual risks while using the pedelec:

- errors by other road users;
 - unforeseeable road conditions, such as black ice caused by freezing rain;
 - unforeseeable material defects or material fatigue can cause the breakage or functional failure of pedelec components.
- Ride defensively and anticipate the traffic situation well in advance.
- Check the pedelec for cracks, scratches, discolouration or component damage prior to each journey.
- Check the function of safety-relevant components such as the brakes prior to each journey.
- After a fall or accident, have a bicycle dealer inspect the pedelec for damage.

3.12 Riding with children

Find out whether children are allowed to ride with you on your pedelec (see section "Bike passport" in the instruction manual). Observe the following information when riding with children:



WARNING

Additional weight changes the riding characteristics of the pedelec.

Risk of accident and injury!

- ▶ Observe the maximum trailer load and the maximum permitted total weight.
- ▶ After installing a child seat or child trailer, familiarise yourself with how the pedelec handles differently in a safe place away from the road.



WARNING

Fitting a child seat or trailer coupling incorrectly can cause components to break.

Risk of accident and injury!

▶ Have a bicycle dealer install your child seat, trailer and trailer coupling.

- Your bicycle dealer will be happy to help you select suitable child seats, child trailers and trailer systems for your pedelec.
- Read the user manual belonging to the child seat, child trailer or trailer system.
- Observe the permitted maximum weight for the child seat, the child trailer or the trailer system specified in the accompanying user manual.
- Only children younger than 8 years old who weigh less than 22 kg may be transported in a child seat or child trailer.
- You must be a minimum of 16 years of age to transport a child in a child seat or child trailer.
- Only transport a child in a child seat or child trailer if they are wearing an adapted bicycle helmet that is certified according to standard DIN EN 1078 and bears the CE mark.
- When using child seats, child trailers and trailer systems, always observe the regulations applicable in your country and region.
- Ensure that there are no loose straps that could get caught in any of the wheels.
- Brake earlier and anticipate slower braking and more sluggish steering behaviour.
- Practice mounting and dismounting the bicycle in a safe place away from the road.
- Teach your child to behave appropriately during the journey.
- Ride defensively and anticipate the traffic situation well in advance.

3.12.1 Riding with a child in the child seat

- Always mount the child seat on the frame. Securing attachments (child seat) to the luggage carrier using clamps can result in breakages and is strictly prohibited.
- When having a child seat fitted, make sure the saddle springs and the sprung seatpost are completely enclosed.
- When having a child seat fitted, make sure that all moving components are enclosed.

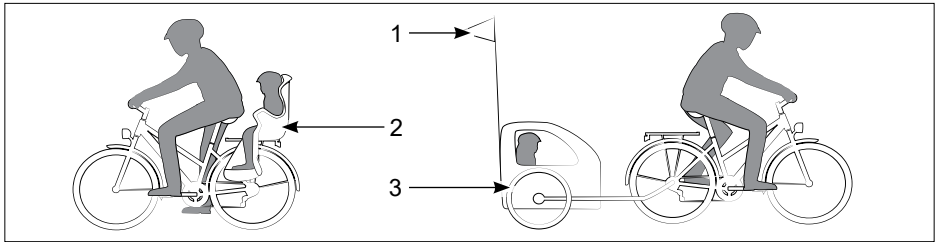


Fig. Riding with children

1 Flag

3 Child trailer

2 Child seat

3.12.2 Riding with a child in the child trailer



WARNING

A pedelec with a child trailer attached is much longer and is more difficult to stop due to the pulsive force of the child trailer.

Risk of accident and injury!











- ▶ Always ride pedelecs with a child trailer attached at moderate speeds.
- ▶ Remember that the stopping distance will be much longer.

Observe the following points when using child trailers:

- Only have a child trailer fitted if your pedelec is suitable (see section “Bike passport” in the full instruction manual).
- Only child trailers certified according to DIN EN 15918 can guarantee maximum safety.
- Observe the maximum trailer load:
 - The maximum trailer load for trailers with no brakes is 40 kg.
 - The maximum trailer load for trailers with brakes is 80 kg.
- In a safe place away from the road, familiarise yourself with the changed riding characteristics of your pedelec resulting from the increase in weight and additional length.
- Do not carry more than two children in the child trailer.
- Always use a child trailer fitted with a lighting system that meets all the relevant national and regional regulations.
- To ensure your child remains safely seated, select a child trailer fitted with suitable seats and restraint systems.
- Have the child trailer fitted with a flexible flagpole at least 1.5 m in length topped with a luminous flag and make sure covers are fitted over the spokes and wheel houses.
- In order to guarantee maximum safety, select a child trailer with a robust passenger compartment and integral safety belts.

4 Basics

4.1 Signs and symbols

	Always read the Quick Guide all the way through.
	Additional instructions for handling or use.
1.	Handling instructions that must be performed in a specific order start with a number.
→	Handling instructions that can be performed in any order start with an arrow.
•	List items start with a bullet point.
	Electrical appliances bearing this symbol may not be disposed of with household or municipal waste. Consumers are legally required to dispose of electrical appliances bearing this symbol at suitable collection points in order to be recycled in an environmentally friendly manner.
	Rechargeable batteries and batteries may not be disposed of with household or municipal waste. Consumers are legally required to dispose of rechargeable batteries and batteries bearing this symbol at suitable collection points in order to be recycled in an environmentally friendly manner.
	Symbol for recyclable materials intended for recycling. Dispose of the packaging according to material type. Dispose of card and cardboard in your paper container and films in your plastic recyclables container.
	Products marked with this symbol meet all applicable Community regulations for the European Economic Area.
	Symbol for products intended for indoor use only.
	The mains connection 230 V~/50 Hz belong to Protection class II.
	Symbol for direct current (DC)
	Symbol for alternating current (AC)

4.2 Units and their meaning

You will find the following units in this Quick Guide or on your pedelec's components:

Unit	Meaning	Unit for
°	Degree	Angle
°C	Degree Celsius	Temperature
°F	Degree Fahrenheit	Temperature (USA)
1/s	Per second	Revolutions
"	Inch	Unit of length (USA) 1 inch = 2.54 cm
bar	Bar	Pressure
g	Gram	Mass (Weight)
h	Hour	Time
Hz	Hertz	Frequency
kg	Kilogram	Mass (Weight)
km/h	Kilometre per hour	Speed
kPa	Kilopascal	Pressure
mph	Miles per hour	Speed
Nm	Newton metre	Torque
psi	Pound per square inch	Pressure (USA)

4.3 Intended use

The manufacturer or bicycle dealer does not accept liability for damage resulting from improper use. Only use the pedelec as described in this Quick Guide. Any other use is considered improper and may result in accidents, serious injury and damage to the pedelec.

Improper use of the pedelec will void the warranty.

The pedelec was designed to be used by one person for whom the seating position has been set accordingly. The pedelec is intended exclusively for private use.

The pedelec is only designed for use on roads and paths with a smooth surface. Riding on unpaved roads, which are not asphalted, made of concrete or paved, may result in the failure of the pedelec.

The pedelec is not intended to be subjected to above-average strain during use, e.g. the use of the bicycle in racing or competitive events is not considered to be in accordance with its intended use.

In order to use your pedelec properly on the road, you must be aware of, understand and adhere to the relevant national and regional regulations.



Please note that, according to the StVZO (German road traffic registration ordinance), the Quercus model is not equipped for use on public roads.

Use of a child seat, child trailer and trailer system is only permitted when this is stated in the bike passport.

4.4 Maximum permitted total weight

The pedelec has a maximum permitted total weight that must be observed when using the pedelec. The maximum permitted total weight can

- be found on your pedelec's CE sticker or
- the bike passport (see section "Bike passport" in the full instruction manual).

→ Determine the empty weight of your pedelec using suspended scales, if necessary with all items of optional equipment attached.

The maximum permitted total weight is calculated by adding the following weight specifications:

Pedelec + rider + luggage/child seat, etc. = maximum permitted total weight.

→ If you always observe the maximum permitted total weight of the pedelec, you will reduce the risk of having an accident, suffering an injury and damaging the pedelec. Failure to observe the total weight specification can lead to warranty and guarantee exclusions.

4.5 Information on torque values



WARNING

Incorrectly tightened screw connections can result in material fatigue and eventually cause the screw connections to break.

Risk of accident and injury!

- ▶ If the screw connections are loose, do not use the pedelec.
- ▶ Tighten the screw connections with the correct torque values.

Observe the relevant torque values to ensure the screw connections are tightened correctly. A torque wrench with a suitable adjustment range is required for this.

→ If you do not have any experience working with torque wrenches or do not have access to a suitable torque wrench, have the screw connections checked by a bicycle dealer.

The correct torque value for a screw connection depends on the material and diameter of the screw as well as the material and design of the component.

→ If you tighten screw connections yourself, check whether your pedelec is equipped with aluminium or carbon components (see section "Bike passport" in the full instruction manual).

→ Observe the special torque values for components manufactured from aluminium or carbon.

→ Torque specifications and markings specifying the insertion depth are indicated on individual pedelec components. Always observe these specifications and markings.

Not all components are listed in this table.

The torque specifications are basic values.

→ You can request the relevant torque values for other components if necessary, or read the manufacturer's user manual accompanying the components.

4.5.1 Torque specifications

4.5.1.1 Model: Sorbus City SUV and Tilia City SUV

Screw connection	Torque in Nm
<i>Handlebar grips</i>	2-3
<i>Stem to handlebar</i>	5
<i>Handlebar clamp</i>	5
<i>Ahead cap bearing clearance</i>	2.5
<i>Brake lever</i>	2.5 to 3
<i>Caliper</i>	6
<i>Saddle clamp</i>	5
<i>Rechargeable battery holder in frame</i>	5
<i>Plastic rechargeable battery holder</i>	3
<i>Rear derailleur bolt</i>	10
<i>Upper saddle clamp</i>	8
<i>Brake discs</i>	4
<i>Cog</i>	40
<i>Frame screws M8</i>	16
<i>Quick-release axle Vr</i>	10
<i>Motor mount</i>	25
<i>Motor cover</i>	1
<i>Chainring screws</i>	10
<i>Spider grooved nut</i>	35
<i>Pedals</i>	20
<i>Crank</i>	50
<i>Cable bushings</i>	1
<i>Speed sensor</i>	3

4.5.1.2 Model: Quercus Carbon Fully/Ltd Edition Musco and Quercus SUV

Screw connection	Torque in Nm
Saddle clamp	5
Cable bushings	1
Subframe in frame	3
Rechargeable battery cover on rechargeable battery	3
Speed sensor	3
Rechargeable battery compartment cover	4
Motor mount	25
Motor cover	1
Chainring screws	10
Derailleur hanger	20
Spider grooved nut	35
Crank bolt	50
Pedals	20
Handlebar to stem	5
Stem clamp	5
Ahead cap	2.5
Caliper	5
Brake lever	2.5
Brake disc	4
Luggage carrier on frame	5

4.6 Rotation direction of screws

- Tighten nuts, screws and quick-release axles by turning them clockwise.
- Unscrew nuts, screws and quick-release axles by turning them anti-clockwise.



If there are deviations from these rules, you can find the relevant direction of rotation in the relevant section.

4.7 Seating position



CAUTION

An incorrect seating position can cause muscle tension and joint pain.

Risk of injury!

- ▶ Have your seating position set correctly by a bicycle dealer.
-



CAUTION

An incorrect seating position makes the operating elements on the handlebar more difficult to reach.

Risk of accident and injury!

- ▶ Have your seating position set correctly by a bicycle dealer.
-

In order for you to control the pedelec safely, the seating position must be adapted to your individual needs.

The ideal seating position depends on the frame size and geometry of the pedelec, the height of the rider, as well as the handlebar and saddle settings. Specialist know-how is required to achieve the best seating position. The best seating position may also depend on how the pedelec will be used, e.g. predominantly for sport.

The key characteristics of an appropriate seating position are:

- If a pedal is at the top, the knee angle of the upper leg and the arm angle is 90°. The lower leg must be slightly bent (see Fig. "Characteristics of an appropriate seating position", left).
- When one pedal is forwards, the knee must be above the axle of the front pedal (see Fig. 'Characteristics of an appropriate seating position', right).
- The arms must be relaxed and bent outwards slightly (not shown in the illustration).
- The back is not vertical in relation to the seatpost.

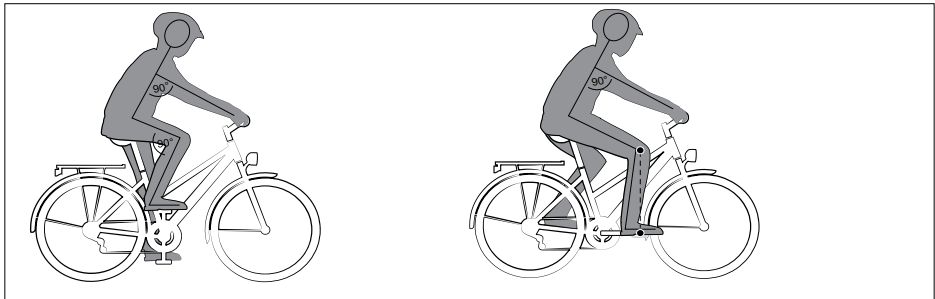


Fig. Characteristics of an appropriate seating position

4.8 Transport

NOTE

Incorrect use of bicycle racks can result in material damage.

Risk of damage!

- ▶ Always use approved bicycle racks to transport the pedelec upright.
 - ▶ Have the bicycle dealer inform you about how to use pedelec racks.
 - ▶ Secure the pedelec to prevent it from slipping or falling over.
-

A transport lock for the disc brake may be included in the delivery, depending on the model.

- Ask a bicycle dealer to explain how to use a transport lock.
- Use the transport lock when transporting the pedelec.
- Transport the pedelec in an upright position.

4.9 After a fall



WARNING

Falls or accidents can cause damage such as hairline cracks on the pedelec. Components may be damaged without it being apparent.

Risk of accident and injury!

- ▶ After a fall or accident, ask a bicycle dealer to inspect the pedelec for damage.
 - ▶ Do not straighten damaged components.
 - ▶ Have a bicycle dealer replace damaged components immediately.
 - ▶ Do not use the pedelec if damage to the pedelec is visible or suspected.
-

A fall or accident may damage components. Damage to carbon components is not always visible. Fibres or paint may come off or be damaged beyond repair and the strength of the components may be reduced as a result.

- Have a bicycle dealer replace any carbon components damaged after a fall or accident.
- After a minor fall, e.g. if the pedelec falls over by itself, check all the components on the pedelec.
- If in doubt or if repairs are needed, consult a bicycle dealer.

4.10 Wear



WARNING

Excessive wear, material fatigue or loose screw connections can cause functional impairments that may lead to accidents or falls.

Risk of accident and injury!

- ▶ Regularly inspect the pedelec for wear.
 - ▶ Do not use the pedelec if there are deformations, cracks and changes in colour.
 - ▶ Do not use the pedelec if there is excessive wear or loose screw connections.
 - ▶ If you discover any excessive wear, loose screw connections, cracks, deformations or discolouration, have the pedelec inspected immediately by a bicycle dealer.
-

Like all mechanical components, the pedelec is subject to wear and high loads. Different materials react to wear or abrasion caused by stress in different ways. Any type of crack, scratch or discolouration indicates that the useful life of the component is coming to an end. Worn components must be replaced.

Only a bicycle dealer can assess the wear on components made from aluminium, carbon or composite materials. Components made of composite materials are sensitive to high temperatures (e.g. thermal radiation) and can be damaged as a result.

Heavy impacts, bumps and distortion are detrimental to frames, forks and wheels made of carbon and composite materials. This has a detrimental effect on the internal structure of the material without this being outwardly visible.

- Ask a bicycle dealer for advice about the wear components on your pedelec.
- Check the condition of all wear parts at regular intervals.
- Maintain wear parts regularly.

4.11 Emission sound pressure level

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

5 Basic adjustments

The following section contains information on how to

- inspect your pedelec before starting your journey,
- adjust the seat position and
- make other basic adjustments.



If you do not have the necessary know-how and tools to make basic adjustments, have your bicycle dealer perform these adjustments.

5.1 Before your first trip

Your bicycle dealer has completely assembled and adjusted the pedelec. The pedelec is thus roadworthy.

Familiarise yourself with the most important functions on the pedelec before setting off on your first trip.

- Familiarise yourself with the riding characteristics of your pedelec in a safe place away from the road.
- If you are unfamiliar with the brake lever assignment to the front and rear wheel brakes, have a bicycle dealer change the brake lever configuration.
- Familiarise yourself with how your bike brakes at a low speed in a safe place away from the road.
- If your bicycle is fitted with hydraulic brakes, press both brake levers several times to centre the brake linings in the calliper.
- Practice changing gear in a safe place away from the road so that you do not have to take your attention away off the road when changing gear.
- Check whether your seating position is sufficiently comfortable, especially for longer journeys, and whether you can easily operate all the components on the handlebar while riding.

5.2 Checks before each journey

- Before each journey, check the pedelec for damage and excessive wear.
- If you discover any damage or excessive wear, do not use the pedelec.
- Have the damaged or worn components replaced by a bicycle dealer.

Before each journey, check the following:

- **Brakes**
 - Push the pedelec and operate each of the brakes, the respective wheels must lock up.
- **Gear shifting system**
 - Check whether the gears change easily and without making noise.
- **Frame, fork and seatpost**
 - Visual inspection: The frame, fork and seatpost must not be cracked, deformed or discoloured.
- **Quick-release devices**
 - Check whether all quick-release devices are closed firmly and secured correctly.
 - Check the pretension of all quick-release devices.
- **Screw and plug connections**
 - Visual inspection: The screw and plug connections must be closed correctly.
- **Pedal mechanism**
 - Check whether the pedal mechanism functions properly and is secured correctly.
- **Lights**
 - Check whether the headlamp and tail lamp function correctly.
- **Bell**
 - Check whether the bell makes a clear sound.
- **Handlebar and handlebar stem**
 - Check that the handlebar and handlebar stem are securely seated.
 - Visual inspection: The handlebar and handlebar stem must not be cracked, deformed or discoloured.
- **Tyres**
 - Check the tyre inflation pressure.
 - Check the tyres for cracks and foreign objects.
- **Rims and spokes**
 - Visual inspection: The rims must not be cracked, deformed or worn excessively.
 - Check the spokes for even tension.

5.3 Adjusting the seat position

Finding the best seating position depends on

- the height of the rider,
- the size of the pedelec frame
- and the handlebar and saddle settings.



WARNING

Incorrectly adjusting the height of the saddle or handlebar may affect the function and safety of the bicycle components.

Risk of accident and injury!

- ▶ Observe the minimum insertion depth of the seatpost.
-



CAUTION

An incorrect seating position can cause muscle tension and joint pain.

Risk of injury!

- ▶ Have your seating position set correctly by a bicycle dealer.
-



CAUTION

An incorrect seating position can make it difficult to reach the operating elements on the handlebar.

Risk of accident and injury!

- ▶ Have your seating position set correctly by a bicycle dealer.
-

Read the section “Seating position” on Page 20 for information on the key characteristics of an appropriate seating position.

The correct seating position may also depend on how the pedelec will be used, e.g. predominantly for sport.

To adjust the saddle height, read the section “Saddle” in the full instruction manual.

Do not adjust the handlebar height unless you have the necessary know-how and tools (see section “Handlebar” in the full instruction manual).

If your pedelec is fitted with an Ahead handlebar stem, have the handlebar height adjusted by a bicycle dealer.

If you cannot achieve a comfortable seating position by adjusting the saddle and handlebar, you can improve your seating position by replacing specific components. Components that can be replaced include

- seatpost,
- saddle,
- handlebar stem,
- handlebar,
- cranks.

→ If you cannot achieve a comfortable seating position, have a bicycle dealer fit components with different dimensions.

→ Note that there may be a reduction in foot clearance on road bikes due to the replacement of the pedal cranks or tyres.



If you decide to sell or give the pedelec to another person, this person has the option of replacing components to achieve an appropriate seating position.

5.4 Observing the torque values

The torque value refers to the rotational force applied to screw connections on the pedelec, for example. In order to tighten the screw connections correctly, always observe the torque values (see section “Information on torque values” on Page 17).



WARNING

Incorrectly tightened screw connections can result in material fatigue and eventually cause the screw connections to break.

Risk of accident and injury!

- ▶ If the screw connections are loose, do not use the pedelec.
- ▶ Tighten the screw connections with the correct torque values.

6 Storage and disposal

This section contains information on how to store and dispose of your pedelec and rechargeable battery safely.

6.1 Storing the rechargeable battery



WARNING

A damaged or improperly used rechargeable battery can irritate and injure the respiratory tract, the eyes or the skin.

Risk of injury!

- ▶ Seek medical attention immediately in case of any complaints.
 - ▶ Ensure that faulty batteries are kept in well-ventilated areas.
 - ▶ Avoid contact with the battery fluid.
 - ▶ If battery fluid gets into eyes, rinse eyes with plenty of water. Seek medical attention immediately.
-

If you do not intend to use your rechargeable battery for a prolonged period, proceed with storage as described below:

- Charge the battery to 60 % of its capacity.
 - After each charging session, disconnect the battery from the charger and pull the mains plug out of the socket.
- Take the rechargeable battery out of the battery holder.
- Store the rechargeable battery in a dry room protected from freezing temperatures and significant fluctuations in temperature, ideally at +10 to +15 °C, for example, in a cellar room.
- Store the rechargeable battery so that it
 - is protected from falling,
 - is protected from moisture, and
 - is out of reach of children and animals.
- If you have the rechargeable battery in storage for more than 3 months, charge the battery every 3 to 6 months to about 60 % of its capacity.

6.2 Storing the pedelec

If you do not use the pedelec for a prolonged period, proceed with storage as described below:

- Store the pedelec in a dry room protected from freezing temperatures and significant fluctuations in temperature.
- Hang a stored pedelec by the frame to prevent the tyres from deforming.
- Clean the pedelec before placing it into storage.
- If the pedelec is fitted with a derailleur gear, change to the small chainwheel at the front and the smallest sprocket at the rear to relieve the cables as much as possible.

6.3 Cleaning the pedelec

In the interests of your own safety, please note the following safety information:



CAUTION

Moving parts on the pedelec can trap or pinch body parts.

Risk of injury!

- ▶ Secure moving parts, if possible.
 - ▶ Wear protective gloves.
-

NOTE

Using unsuitable cleaning products can result in material damage.

Risk of damage!

- ▶ Do not use aggressive cleaning products.
 - ▶ Do not use sharp, angular or metal cleaning tools.
 - ▶ Do not use powerful water jets or high-pressure cleaners.
-

→ You will need the following items to clean the bicycle:

- Clean cloths
- Mild, tepid soapy water
- Sponge or soft brush
- Cleaning products and preserving agents

→ If necessary, consult a bicycle dealer for advice on suitable cleaning products and preserving agents.

→ Clean the pedelec regularly, even if only slightly soiled.

→ Wipe down all surfaces and components using a sponge moistened with mild soapy water.

→ After cleaning, wipe all surfaces and components dry.

→ Preserve all painted and metal surfaces on the frame at least every six months.

→ Colours may fade due to UV irradiation and other environmental conditions.

→ If the bicycle is fitted with rim brakes, do not use preserving agents on the rims. Likewise, if the bicycle is fitted with disc brakes, do not use preserving agents on the brake discs.

→ Read and follow the instructions for cleaning individual components included in the manufacturer's information.

6.4 Disposal



Familiarise yourself with all disposal symbols displayed on packaging, the rechargeable battery as well as the charger (see section “Signs and symbols” on Page 15).

6.4.1 Disposing of packaging

- Dispose of the packaging according to material type. Dispose of card and cardboard in your paper container and films in your plastic recyclables container.

6.4.2 Disposing of the pedelec



All rechargeable batteries and batteries and operating parts containing rechargeable batteries or batteries must be removed from pedelecs before disposing of the pedelec. After removing all rechargeable batteries and batteries, the pedelec is considered as old electrical equipment and must be recycled.

- Dispose of the pedelec at a recycling centre or collection point run by the local city council or municipality.

6.4.3 Disposing of the rechargeable batteries and batteries



Rechargeable batteries that provide the motor with energy and permanently installed display batteries are usually lithium-ion batteries, which must be disposed of as hazardous waste.

- Dispose of the rechargeable batteries and batteries at a recycling centre or collection point run by your city council or municipality.

6.4.4 Disposing of lubricants, cleaning agents and care products

Lubricants, cleaning agents and care products should not be disposed of with household rubbish, in sewers or in nature.

- Read the information on the packaging.
- Dispose of the lubricants, cleaning agents and care products at a recycling centre or collection point run by your city council or municipality.


6.4.5 Disposing of tyres and inner tubes

Tyres and inner tubes do not qualify as residual or domestic waste.

- Dispose of tyres and inner tubes at a recycling centre or collection point run by your city council or municipality.

7 Declaration of conformity

Declaration of conformity

 Equipment marked with the CE symbol complies with all applicable Community regulations of the European Economic Area. You can download the EU declaration of conformity and full instruction manual via the following Internet link:
www.waldbike.de

8 Imprint

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This original instruction manual for your pedelec meets the requirements and stipulations outlined in standards DIN EN 15194, DIN EN 4210 and DIN EN 82079-1.

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WALDBIKE

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