Ampler Manual
Stout, Stellar, Curt

Model year 2021

Manual English

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1 About this instruction manual

1.1 Why is an instruction manual necessary?

The instructions will help you to use the Pedelec correctly and safely. This prevents mistakes, damage and above all, the risk of injury due to incorrect use. This applies to the assembly, fitting, and riding, and also for all other aspects, such as the use of components (e.g. battery and charger, rear carrier, lighting system, kickstand, etc.), cleaning, care and maintenance as well as dismantling and disposal.

These instructions are also available in the Ampler Support Portal as a PDF, as well as in German. To have the instructions available in digital form (e.g. on a smartphone) at any time, it can be downloaded there.	

1.2 What can you find in this instruction manual?

This instruction manual contains all the necessary information to become familiar with the Pedelec and to use it safely.

1.3 Symbols and illustrations

1.3.1 Warning notices

This instruction manual includes warning notices to highlight potential hazards (damage to property and personal injury).

→ Read and pay attention to the warning notices.

→ Follow all precautions indicated in the warning advisories.

- Hazard prevention measures are marked with the symbol ▶

Warning symbols	Warnings	Meaning
⚠	**DANGER**	Hazards with a high degree of risk to persons. Failure to observe this will result in death or serious injury.
⚠	**WARNING**	Hazards with a moderate level of risk to persons. Failure to observe this may result in death or serious injury.
⚠	**CAUTION**	Hazards with a fairly low level of risk to persons. Failure to observe this may result in minor or moderate injury.
ATTENTION	**ATTENTION**	Information on how to avoid property damage. Failure to observe this may result in damage to the product or other property.

1.3.2 Symbols

To ensure clarity, the following symbols are used in this instruction manual:

Symbol	Meaning
→ 1. 2.	Symbol that identifies a single required action. Multiple action steps are numbered. → If there are several action steps, observe the correct sequence of actions.
▶	Symbol for taking action in a safety and warning notice
!	Additional information, tip or recommendation

1.4 Validity

This instruction manual was originally written in German and is a translation thereof.

This instruction manual applies to the following Pedelecs and equipment versions:

Model	Model Year	Equipment version
Stout	2021	9-speed
Stellar	2021	9-speed
Curt	2021	single-speed
Curt	2021	11-speed

1.5 Other relevant documents

! Pedelec component instructions are also available in PDF format on the Ampler Support Portal. To have the instructions available in digital form (e.g. on a smartphone) at any time, it can be downloaded there.

Format	Supplied in printed form	PDF on the Support Portal	Explanation
Instructions for LED seat post	–	x	–
Gates Carbon Drive Instructions	–	x	optional, depending on model
Charger Instructions	–	x	–
Bike Lock Instructions	x	–	optional, depending on contents of delivery

2 Safety instructions

- ▶ Read and carefully follow the instruction manual.
- ▶ Keep the instruction manual in a safe place.
- ▶ Read, follow and save all supplied instruction manuals for components and accessories.
- ▶ Please pass on the instruction manual and all user manuals when handing over the Pedelec.

2.1 Pedelec

2.1.1 Intended use

The Pedelec is intended for private use as an electric motor-assisted bicycle in urban and countryside areas on publicly accessible, paved paths.

- ▶ Only use the Pedelec, components and accessories in accordance with the information in this instruction manual.
  - Please adhere to the manufacturer's instruction manuals for the Pedelec's components and accessories.
- ▶ Do not modify the Pedelec, its components or accessories in an unauthorized manner.
- ▶ Only use approved original spare parts for replacement, exchange, maintenance or repair.
- ▶ Replace, service or repair of components only as specified in this manual and, if necessary, after contacting Ampler Customer Service.

2.1.2 Non-intended use

The Pedelec is **not** intended for use as a mountain bike or racing bike.

- ▶ Avoid non-intended uses:

The following are considered as non-intended use:

- Renting the Pedelec at unattended rental stations
- Exceeding the permissible total weight of the Pedelec
- To use the Pedelec without reflectors fitted in accordance with locally applicable regulations
- Adjusting the seat post beyond the minimum insertion depth in the seat tube
- Using the Pedelec with inadequately tightened, under-tightened or over-tightened stem clamping bolts
- To use the Pedelec with incorrectly mounted pedals
- Using the Pedelec with underinflated or overinflated tyres
- Disregarding the required inspection and maintenance schedules
- Overtightening of fasteners during assembly, adjustment or maintenance
- Use of non-original spare parts
- Connecting the charger to a damp or wet charging port
- Charging the battery outdoors
- Inappropriate disposal of the Pedelec, its components and accessories

2.2 Battery charger

The battery charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the charger by a person responsible for their safety.

- ▶ Do not let children play with the battery charger.

- ▶ Use only the charger intended for the corresponding Ampler bike when charging the battery in the Pedelec with the charging connection.

2.3 Other hazards

Riding without a bike helmet

Serious injuries and fatalities induced by accidents!

Riding without a bicycle helmet can lead to serious head injuries in the event of a crash or fall.

- ▶ Always wear a correctly adjusted and fitting bicycle helmet when riding.
- ▶ Follow the manufacturer's manual.

Loose components of the Pedelec

Loose components that can lead to hazards include:

- Saddle and seat post
- Handlebars
- Pedals
- Wheels
- Rear carrier

Falls and very serious injuries can be caused by parts of the Pedelec coming loose!

Lose oder zu gering angezogene Schrauben, Mutter und Loose or under-tightened screws, bolts, nuts and fastenings lead to loose, slipping components (loose **handlebars, slipping seat posts, loose saddles, wheels slipping out of the fork, loose pedals) and can** lead to loss of stability and balance when riding.

- ▶ Always comply with the torque specifications or instructions for the correct tightening of bolts and nuts on the headset, stem, handlebars, saddle and seat post, wheels and axles.
- ▶ Follow the instructions for the correct installation of the pedals.
- ▶ Note the information on the minimum insertion depth of the seat post.

Incorrect use of the power button

Falls and serious injuries can occur if the power button is pressed while the bike is in motion!
If the power button is pressed while riding, bike stability becomes compromised.

- Do **not** press the power button while riding.

Falls and extremely serious injuries result from careless use of a smartphone while riding!
Operating a smartphone while riding can distract you from your surroundings and affect your stability while riding one-handed or with no hands on the handlebar.

- Do **not** use a smartphone to make phone calls or anything else while riding.
- Attach the smartphone to the handlebars using a suitable holder.
- Use the **Ampler Bike App** on your smartphone only when it is mounted in a stable holder.
- Do not use the **Ampler Bike App** while actually riding.
- Only use the **Ampler Bike App** while riding to read information on the smartphone display.

Overloading the Pedelec

Falls and extremely serious injuries result from overloading the Pedelec and thereby exceeding the maximum total weight!
Exceeding the max. permissible total weight leads to loss of riding stability and can cause serious injuries.

- The maximum permissible total weight of the Pedelec including the mounted accessories, any luggage and the person riding.

Inappropriate use of the Pedelec for off-road riding, for racing

Falls and extremely serious injuries result from using the Pedelec inappropriately!
Using the Pedelec on unsuitable terrain (mountains, unpaved roads) and for unsuitable purposes (cycle racing) overstresses the components and can lead to serious injuries.

- Only use the Pedelec for its intended purpose on paved roads in urban and rural settings.
- Do not use the Pedelec as a "racing bike", nor as a "mountain bike".

Hot surfaces on the brakes

Hot components can cause burns to fingers and hands!
Parts of the brake system can become very hot when riding.

- Do not touch the brake calliper and brake discs during or immediately after riding.
- Allow sufficient cooling time.

Fire hazard!
Parts of the brake disc can become very hot when riding.

- Never store the Pedelec after riding in such a way that hot components come into close contact with easily flammable surfaces or materials (grass, wood, paper).

Incompatible accessories and spare parts

Falls and potential injuries could result from installing incompatible accessories!
The installation and use of incompatible accessories that are not approved for the Pedelec (pedals, mirrors, rear carriers, fenders, child seats, tyres with spikes, etc.) can impair the functionality, riding stability and safety of the Pedelec.

- Only use accessories approved for the Pedelec.
- Only install and use accessories in accordance with the manufacturer's instructions.

Falls and potential injuries could result from the use of incompatible spare parts!
The installation and use of incompatible spare parts can impair the functionality, riding stability and safety of the Pedelec.

- Only use original spare parts approved by the Pedelec manufacturer for maintenance and repairs.
- Only carry out maintenance, servicing and repairs in accordance with the information provided by the manufacturer of the Pedelec, or have them carried out by a bicycle workshop.
- Do not modify original spare parts for the Pedelec.
- Only install and use original spare parts in accordance with the instructions of the manufacturer of the spare parts.

There is a risk of injury from incorrect use of the trailer adapter!
Incorrect assembly and improper use of the trailer adapter and the trailer can lead to accidents and serious injuries.

- Read and follow the instructions for the trailer adapter.
- Do not modify the Pedelec accessories.
- Do not modify the Pedelec trailer adapter.
- Only use original components for the assembly and use of the trailer adapter.

Corrosive cleaning agents

Injuries to eyes and skin may result from the use of corrosive cleaning agents!
Cleaning agents can get into the eyes and on to the skin if used carelessly.
- ▶ Adhere to the cleaning agent manufacturer's instructions for use.
- ▶ Do not clean the Pedelec with corrosive cleaning agents.

Corrosive hydraulic fluid in the brake hoses

Injuries to eyes and skin may also be caused by the hydraulic fluid in the brake hoses!
- ▶ In case of damaged brake hoses: Avoid contact with any leaking hydraulic fluid.
- ▶ In case of contact with spilled hydraulic fluid: Rinse exposed skin surfaces and eyes immediately with water. Get medical help.
- ▶ Handle hydraulic fluid only according to the manufacturer's instructions.

Irritant chain oils and lubricants

Injuries to eyes and skin may be caused by exposure to irritant chain oils and lubricants.
Aerosolised caustic chain oils and lubricants can get on the skin and in the eyes.
- ▶ Do **not** use chain oils and lubricants containing aerosols.
- ▶ In case of contact with aerosolised chain oils and lubricants: Rinse eyes immediately with water, rinse affected skin areas with water. Get medical help.

Tools with sharp edges and cutting edges

Cut and puncture injuries can result from the sharp edges, spikes and cutting blades of tools!
Improper and unprotected use of tools with sharp edges, spikes and cutting blades can injure hands and other parts of the body.
- ▶ Use protective gloves if necessary.
- ▶ Use tools with care.

Damaged rechargeable battery

Danger of fire and explosion!
A damaged battery can self-ignite and explode.
If the electronic safety system fails, the residual voltage in the battery can trigger a short circuit.
- ▶ Do not open the Pedelec battery casing.
- ▶ Do not remove the battery yourself.
- ▶ Do not disassemble or attempt to repair the battery yourself.
- ▶ After a Pedelec has been dropped or subjected to an impact, deactivate the battery for at least 24 hours (do not switch on the Pedelec, do not use it) and monitor the battery.
- ▶ In the event of visible damage to the frame in the area of the installed battery:
  - Switch off the Pedelec immediately.
  - Do not switch the Pedelec on again.
  - Do not use the Pedelec.
- ▶ If damage to the battery is suspected, store the Pedelec in a dry area and protect it from heat.
  - Do not store the Pedelec near flammable materials.
- ▶ Dispose of a Pedelec with a damaged battery appropriately.

The battery is installed within the frame, but water penetration can cause a short circuit. The battery may self-ignite and explode.
- ▶ Never immerse the frame of the Pedelec, even partially, in water.
- ▶ If there is a suspect of water ingress into the frame:
  - Switch off the Pedelec immediately.
  - Do not switch the Pedelec on again.
  - Do not use the Pedelec.

High outdoor temperatures can cause fluids to leak from the battery and damage the housing. The battery may self-ignite and explode.
- ▶ Shield a Pedelec with a built-in battery from high temperatures, long and/or strong sunlight and heat.
- ▶ Avoid severe and sudden temperature changes around the frame of the Pedelec in the area of the built-in battery.
- ▶ Do not store the Pedelec outdoors in high temperatures.
- ▶ Keep the Pedelec in the shade during the summer.

Unsuitable battery chargers (e.g. ones with too high a voltage) will damage the battery. The battery may self-ignite and explode.
- ▶ Only use the original Ampler charger to charge the Pedelec battery.
- ▶ If necessary, label the charger so that it cannot be confused with chargers for other batteries or other Pedelecs.

Metallic objects could cause a short circuit in the charging port on the frame of the Pedelec. This may cause electrical arcing.

- Do not insert or plug any metallic objects (bolts, coins, wires, keys or similar) into the charging port on the frame of the Pedelec.

Damage to the Battery!

The battery cells can be damaged if they are left permanently undercharged (flat) during prolonged periods of non-use.

- Check the state of charge of the battery regularly and charge the battery if necessary.

Damaged, overheated charger

Fire hazard!

The charger heats up when charging the battery and can become very hot.

- When charging, do not place the charger on easily flammable surfaces or materials and do not place it near flammable or explosive materials.
- Do not cover the charger while charging.
- Do not leave the charger unattended while charging.
- Protect the charger from excessive heat or high temperatures.

Discomfort to the body and hands!

The charger can become very hot when charging the battery.

- Do not touch the charger when the casing is very hot.
- Place the charger in a well-ventilated location.

Electric shock!

A damaged charger may have defective plugs, power cables and buttons.

- Only operate the charger if it is in good working condition, and only use it for charging.
- Before each use, check the external condition of the plugs, sockets, power cables and buttons of the charger. Ensure that the charging socket and the mains plug of the charger are not in contact with any metallic objects.
- Do not use a damaged charger.

Electric shock due to a short circuit!

If water enters the charger, a short circuit may occur, which can lead to an electric shock.

- Store the charger in a cool and dry place.
- Protect the charger from rain, snow, moisture and humidity.
- Do not immerse the charger in water.

Condensation on the charger and charging ports

Electric shock due to condensation!

If there is a sharp change in temperature, condensation can form on and within the charger and at the charging port.

- If significant temperature changes occur in the local setting, do not use the charger until it has adapted sufficiently to the ambient temperature.
- Do not use the charger and charging port if there is moisture or water on the housing.
- Check the charger, the plug and the charging port for moisture before use, and wipe dry if necessary.

3 Delivery

The Pedelec will be delivered in a large shipping carton.

3.1 Symbols on the packaging

Symbol	Meaning / Description	Explanation
	Recyclable	Packaging can be recycled. Dispose of packaging according to local regulations.
	Laceration Injuries “Caution! Remove all staples after opening the lid!”	Packaging contains sharp-edged parts.
	Protect from Moisture	Protect packaging from moisture.
	Top	Transport and store packaging this way up.
	Fragile Packaged Items	Contents of the packaging are fragile. Handle With Care. Do not throw or overturn.
	Recyclable	Dispose of packaging according to local regulations.

3.2 Contents of delivery

Contents	Stout Model	Stellar Model	Curt Model
Pedelec, pre-assembled	✓	✓	✓
Accessories kit	✓	✓	✓
• 4 mm hex key	✓	✓	✓
• 6 mm hex key	✓	✓	✓
• Pedals	✓ (2)	✓ (2)	✓ (2)
• Battery charger	✓	✓	✓
• Reflectors	✓ (2)	✓ (2)	✓ (2)
• Spoke reflectors	–	–	✓ (4)
• Bell	✓	✓	✓
• Operating Instructions	✓	✓	✓
• Bicycle Pass ("Bike Pass")	✓	✓	✓
Accessories			
Bicycle lock with holder and keys	optional	optional	optional
Additional charger	optional	optional	optional
Trailer adapter	optional	optional	optional

3.3 Transporting the Pedelec in the shipping carton

The shipping carton has 2 grip holes on each of the long sides and 1 grip hole on each of the short sides.

▶ Transport the shipping carton only when sealed and in an upright position.

▶ Grasp and lift the shipping carton only by the grip holes.

- If necessary, enlist the help of a second person for transport..

3.4 Unpacking the Pedelec

▶ After unpacking, store the packaging for later use.

Unboxing A video about this is available on the **Ampler Support Portal**. The video explains the necessary steps for unpacking in detail and contains further tips.	

1. Check the shipping carton for external damage.
   - In case of noticeable damage, document the damage and contact Ampler customer service.
2. Place the shipping carton on a flat, stable surface.
   - Do not lay it flat or topple it over.
3. Open the shipping carton on the side with the yellow safety label.
   - After opening, remove all visible staples.
4. Grasp the cardboard support in which the Pedelec is housed with both hands and pull it out together with the Pedelec.
   - If necessary, enlist the help of a second person.
5. Park the Pedelec next to the shipping carton.
   - Curt model: This Pedelec does not have a kickstand. For this reason, this Pedelec can remain in the cardboard support stand so that it is stable for further assembly.
6. Remove the protective packaging from the Pedelec.
7. Remove the accessory box from the cardboard support stand.
8. Check delivery for completeness.
   - In case of missing parts, contact Ampler customer service.
9. Check all parts for damage..
   - In case of noticeable damage, contact Ampler customer service.
10. Keep the shipping carton.

3.5 Transporting a Pedelec

Thanks to its low weight, the Pedelec can be carried easily in two hands.

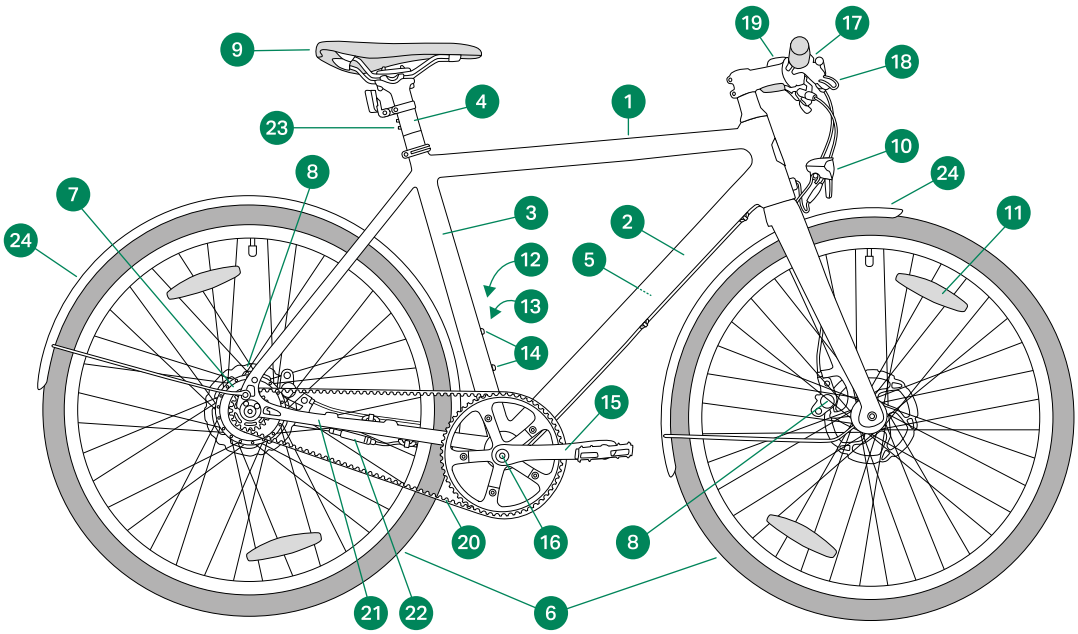
→ Before transporting, remove loose pieces and accessories from the Pedelec.
→ When transporting the Pedelec, do not grasp or lift it by the wheels or the saddle, except the seat post.
→ Only transport the Pedelec in an upright position.
→ Lift and carry the Pedelec by the top frame and, if necessary, by the seat post.

4 Ampler Pedelec

The Pedelec consists of the **bicycle**, the **charger** and optional **accessories**. The **Ampler Bike App** can also be used with the Pedelec.

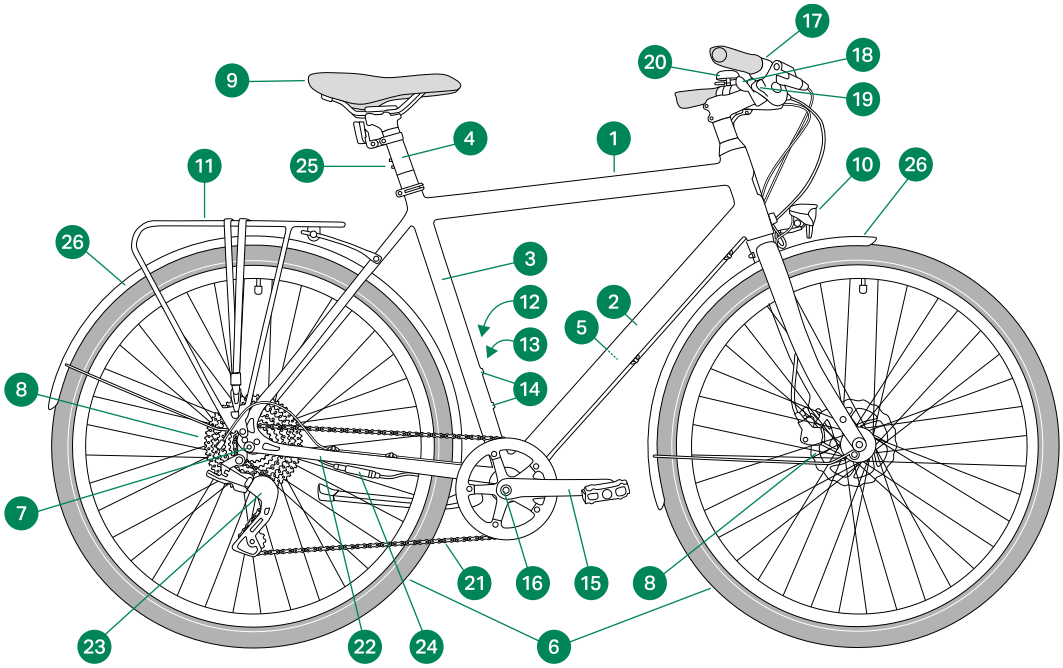
> Differences between the Stout, Curt and Stellar models are highlighted in each case.

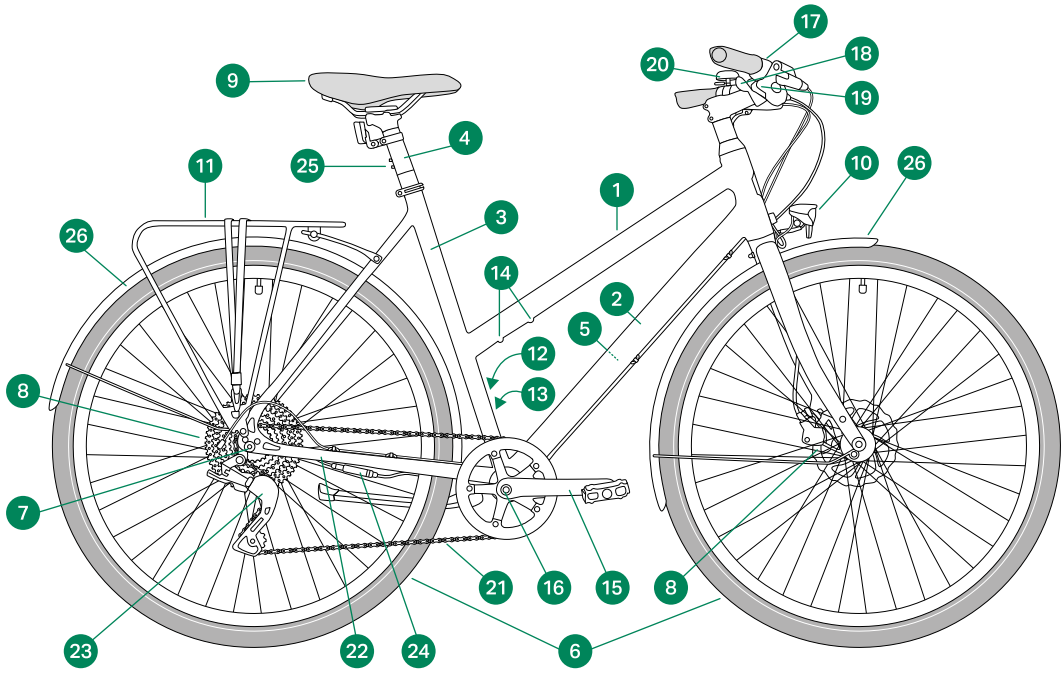
4.1 Bicycle - structure and components



Curt

1 Frame
2 Down tube (with integrated battery)
3 Seat tube
4 Seat post
5 Battery (integrated in frame)
6 Wheels
7 Hub / Electric motor
8 Disc brake
9 Saddle
10 Front light with reflector
11 Spoke reflectors
12 Power button
13 Charging port
14 Eyelets for bottle holder, lock
15 Pedals and crank
16 Bottom bracket
17 Handlebar
18 Brake levers
19 Bell
20 Belt / Chain
21 Chain stay
22 Motor cable
23 Rear light with reflector
24 Mudguards





Stout, Stellar

1 Frame
2 Down tube (with integrated battery)
3 Seat tube
4 Seat post
5 Battery (integrated in frame)
6 Wheels
7 Hub / Electric motor
8 Disc brake
9 Saddle
10 Front light with reflector
11 Rear carrier
12 Power button
13 Charging port
14 Eyelets for bottle holder, lock
15 Pedals and crank
16 Bottom bracket
17 Handlebar
18 Shifter
19 Brake levers
20 Bell
21 Chain
22 Chain stay
23 Rear derailleur
24 Motor cable
25 Rear light with reflector
26 Mudguards

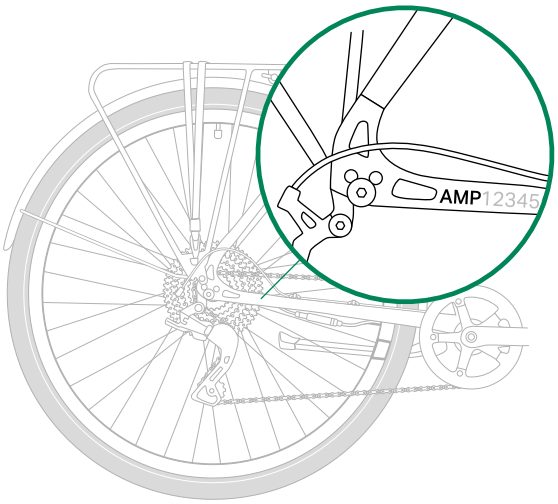
Symbols and notices on the bicycle

There are symbols and notices on the bike in some places. These provide information for the safe use of the Pedelec and its components.

Symbol / Notice	Position	Meaning
10 Nm	Thru-axle head front wheel	Max. tightening torque of the axle
18 kg	Rear carrier	Max. load capacity
Stout / Stellar: 42-622, max. 6.0 bar / 85 PSI Curt: 32-622, max. 7.0 bar / 102 PSI	Tyre sidewall	Tyre dimension, maximum permissible air pressure
31.6 mm	LightSKIN seat post	Seat post diameter
min.		Maximum insertion limit
Safety ring		Maximum pull-out limit
6 V DC	Front light	Front light power supply
Arrows / insertion line	Motor cable connector	Instructions for correctly plugging in the motor cable connector

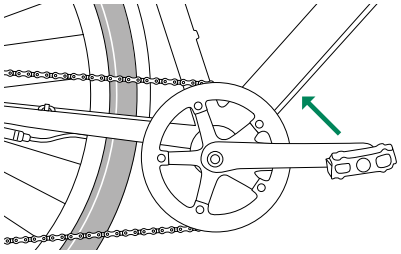
4.1.1 Frame number

The frame number is on the right side of the bike on the chain stay, next to the rear dropout, and in the Ampler Bike Pass. The frame number is required, for example, for making enquiries with Ampler customer service and when ordering spare parts.



4.1.2 Type label

The type label is located on the underside of the down tube, above the bottom bracket.

Type label	No.	Meaning	Explanation
	1	Contact Details	Manufacturer address
	2	Type of Bike	EPAC according to EN 15194
	3	CE Symbol	The Pedelec has been manufactured in accordance with European directives.
	4	Disposal Information	Dispose of the Pedelec and all components in accordance with the locally applicable guidelines.
	5	Model Name	e.g. "Stout", "Stellar"
	6	Year of Manufacture	e.g. "2021"
	7	Max. Permissible Total Weight	Maximum permissible total weight of the bicycle with attached accessories, rider and luggage, stated in kg
	8	Max. Weight of the Rider	
	9	Weight of the Bicycle	Weight of the ready-to-ride Pedelec (without optional mounted accessories), in kg
	10	Power Rating	Continuous rated power, in kW
	11	Max. Speed with Electric Motor Assistance	Specified in km/h

Ampler Bikes OÜ
Telliskivi 60/2
10412 Tallinn, Estonia
amplerbikes.com
EPAC according
to EN15194

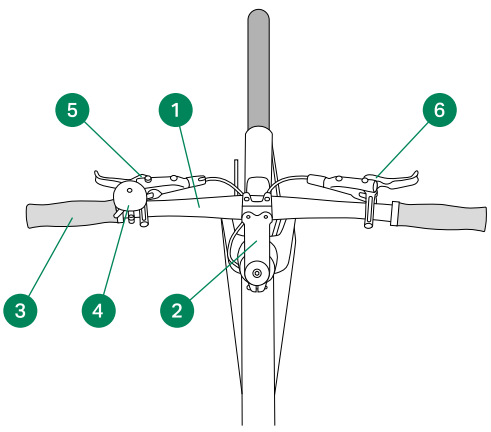
MODEL	Stellar
YEAR OF CONSTRUCTION	2021
MAX PERMISSIBLE TOTAL WEIGHT	137 kg
MAX RIDER WEIGHT	110 kg
MASS OF EPAC	17 kg
CONTINUOUS RATED POWER	0.25 kW
MAX ASSISTANCE SPEED	25 km/h

4.1.3 Handlebars

> ! Differences between the Stout, Curt and Stellar models are highlighted in each case.

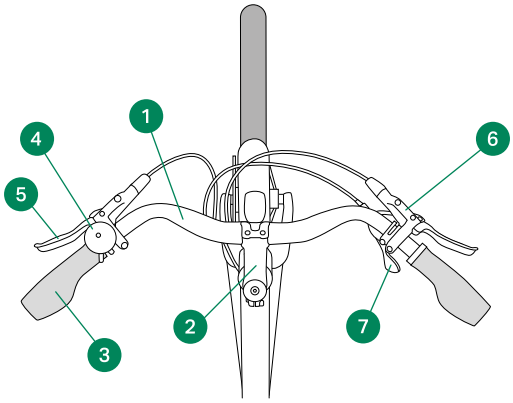
Model Curt, single-speed, belt drive

1 Handlebar
2 Stem
3 Grips
4 Bell
5 Front brake
6 Rear brake



Model Stout, Stellar, Curt with gears

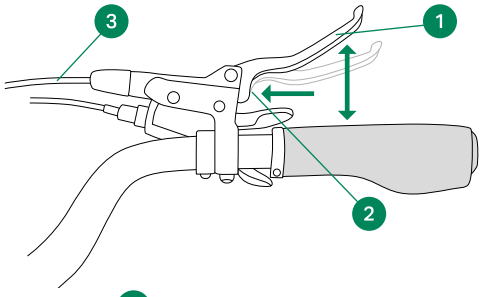
1 Handlebar
2 Stem
3 Grips
4 Bell
5 Front brake
6 Rear brake
7 Shifter



4.1.4 Brakes

The Pedelec is equipped with a front wheel brake and a rear wheel brake. Both brakes are hydraulically actuated disc brakes. The adjustment screw can be used to adjust the reach of the brake lever.

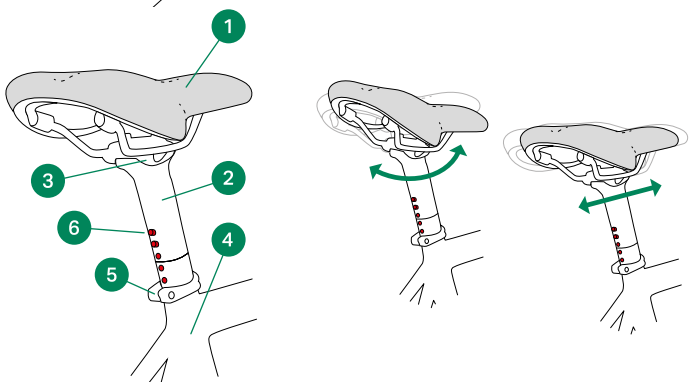
1 Brake lever
2 Adjustment screw
3 Brake hose



4.1.5 Saddle and seat post

The saddle is adjustable in height and tilt angle.

1 Saddle
2 Seat post
3 Saddle clamp, with 2 clamping bolts (5 mm, key not included)
4 Seat tube
5 Seat post clamp, with 1 clamping bolt (4 mm)
6 Integrated rear light, 5 LEDs

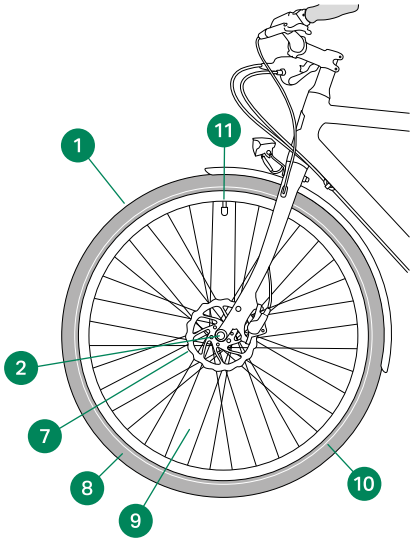


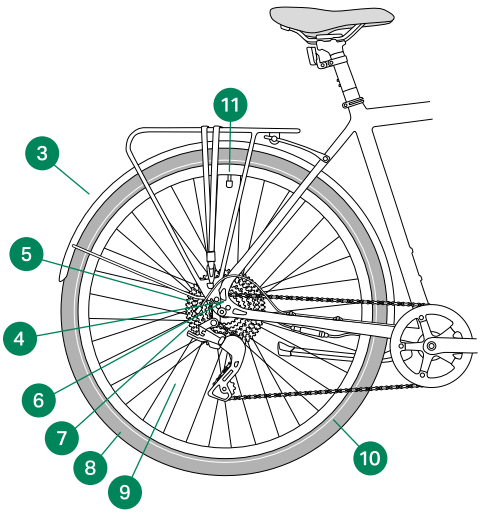
4.1.6 Wheels

The wheels consist of the rim with spokes and hub, the brake discs and the tyres, as well as the cassette and the rear derailleur (rear mechanism) for models with gears. The electric motor is integrated into the hub of the rear wheel. On the Stout and Stellar models, the tyres are equipped with reflective sidewalls, therefore do not require spoke reflectors. Our bikes adhere to German traffic regulations, differing local regulations may apply.

Stout, Stellar

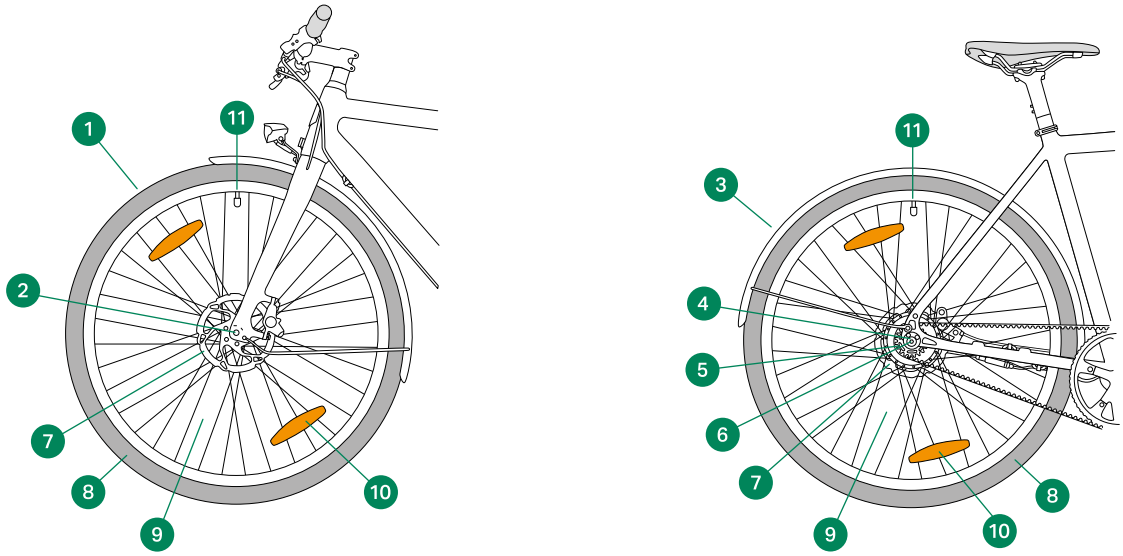
1 Wheel (front wheel)
2 Thru axle (front)
3 Wheel (rear wheel)
4 Axle (rear) with nuts
5 Cassette
6 Hub (e-motor)
7 Disc brake
8 Tyres
9 Spokes
10 Reflective sidewalls
11 Valve





Curt

1	Wheel (front wheel)	4	Axle (rear) with nuts	6	Hub (E-motor)	9	Spokes
2	Thru axle (front)	5	Cassette (for gearshift model)	7	Disc brake	10	Spoke reflectors
3	Wheel (rear wheel)			8	Tyres	11	Valve



4.1.7 Drivetrain

> Differences between the Stout, Curt and Stellar models are highlighted in each case.

Curt Model, single-speed

The Curt model with single-speed has no cassette, no rear derailleur and no shifter on the handlebars.

Curt model, 11-speed gears / Stout model, Stellar, 9-speed gears

The bikes have several gears.
The gear system consists of the rear derailleur and cassette on the rear wheel, the shifter on the handlebars and the shifter cable, which is routed on the frame. The gears can be changed with the shifter on the handlebars.

- Curt model, 11-speed gears: The model has a gear indicator on the shifter.

4.1.8 Kickstand

Stout and Stellar models

The kickstand can be folded down for safe parking of the Pedelec.

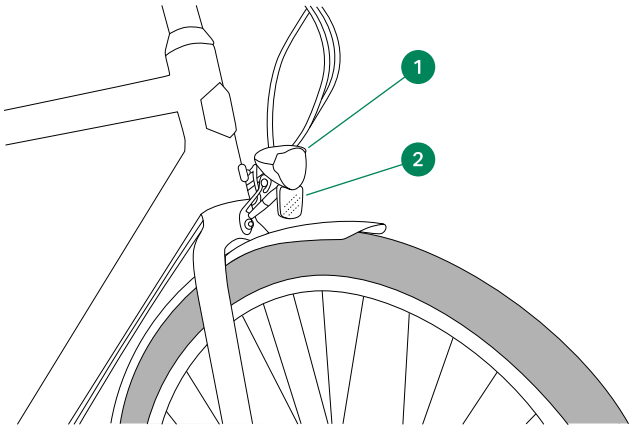
4.1.9 Rear carrier

The Curt model does not have a carrier.
The Stout and Stellar models are equipped with a rear carrier. The carrier is equipped with a strapping belt.
The tube diameter is 10 mm and can be used for attaching pannier bags.

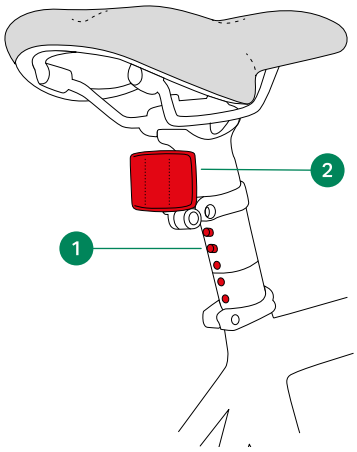
4.1.10 Lighting system

The Pedelec is equipped with a front light and a rear light (as 5 separate LEDs embedded in the seat post).
The reflectors are attached to the front light and the seat post during assembly. The front and rear lights are powered by the battery.

1 Front light
2 Reflector



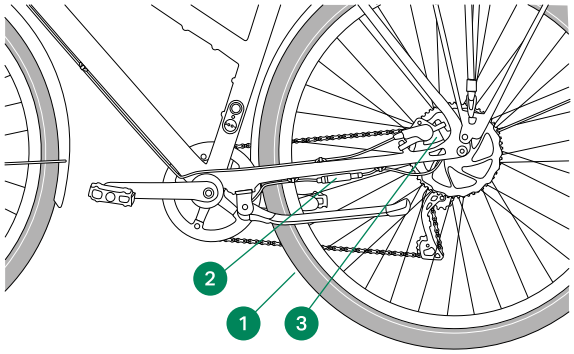
1 Rear light (5 LEDs)
2 Reflector



4.1.11 Electric drive

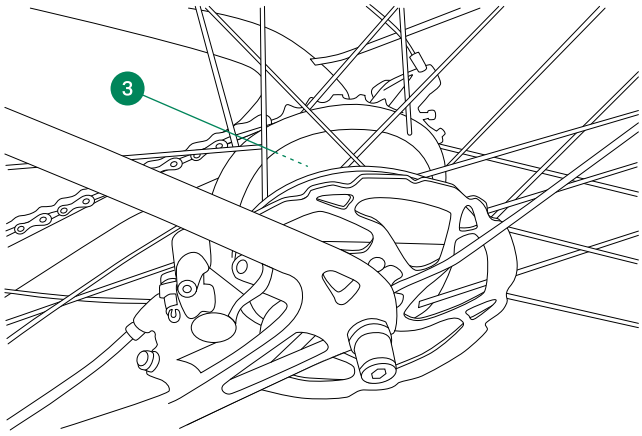
The Pedelec is equipped with an electric drive that assists the pedalling movement with 2 selectable assistance modes up to the max. speed.
The power button is used to switch the Pedelec on and off before riding, to select the assistance mode if required, and to switch the lights on/off.
The drive has a battery for the power supply, an electric motor and sensors that measure the rotation of the crank and the amount of torque being exerted, as well as regulating the motor, and the associated electronics and software for the control system. The electric motor's output adjusts according to the selected assistance mode and the sensor data.

- The battery, the electronics and the sensors are integrated into the Pedelec's down tube and bottom bracket.
- The electric motor and the hub of the rear wheel form a single unit.



The Pedelec can be used with or without the electric drive. When used without an electric drive, there is no electric motor assistance for pedalling.

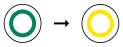
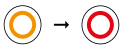
1 Rear wheel
2 Motor cable
3 Integrated electric motor with hub



4.1.12 Rechargeable battery

The battery is integrated into the down tube. The battery supplies power for the motor and the lighting system. The battery is charged via the charging socket on the down tube of the Pedelec. The coloured LED on the power button shows the current state of charge of the battery when the Pedelec is switched on.

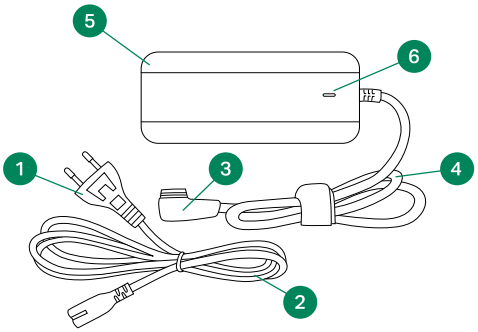
- The factory charge level of the battery is between 40% and 90%.
- The battery capacity cannot fully develop in cold weather. On particularly cold days, this can lead to a shorter range.

Illustration	Explanation	Charging status
	lights up green	100 % to 75 %
	lights up yellow	74 % to 50 %
	lights up red	49 % to 10 %
	**flashes**	9 % to 0 % (empty)

4.2 Battery charger

The charger is specially designed for the Pedelec battery.

1 Mains plug
2 Power cord
3 Charging plug
4 Charging cable
5 Battery charger
6 Charging LED



4.3 Accessories

4.3.1 Ampler Bike Pass

The **Ampler Bike Pass** is provided by Ampler and contains essential data about your Pedelec.

> This data is required, for example, for enquiries with **Ampler Customer Service**.

4.3.2 Bicycle lock

A **bicycle lock** is an optional extra. It consists of the bracket, which is attached to the eye bolts for the bottle mount on the seat tube (Stellar model: on the underside of the down tube), and the lock and keys that are supplied.
The bicycle lock is supplied with its own instructions provided by its manufacturer.

4.3.3 Trailer adapter

The **Ampler trailer adapter** is available as an optional extra and is compatible with most bike trailers from Thule, Burley and Croozer. The trailer adapter is used to adapt the Ampler M12 thread of the axle on the rear wheel to an M10 thread with matching screw.

4.4 Ampler Bike App

The downloadable Ampler Bike App is optionally available.

5 Assembly

The Pedelec is delivered mostly pre-assembled. Some components still need to be assembled and adjusted after unpacking.

Assembly
A video for this is available on the **Ampler Support Portal**. The video explains the necessary assembly steps in detail and contains further tips.

Tools required

- 4 mm hex key (included in delivery)
- 6 mm hex key (included in delivery)
- Phillips screwdriver
- Flat-head screwdriver

5.1 Handlebar alignment

Using a torque wrench
If necessary, a torque wrench can be used for assembly (not included; available from specialist shops).

Tightening torques

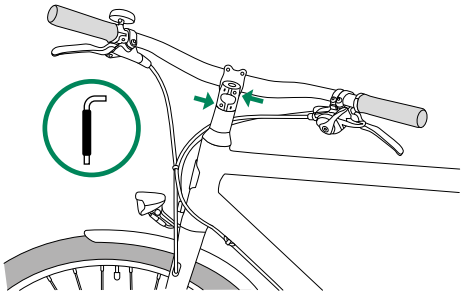
Screws	Tightening torque	Explanation
Stem clamping bolts	max. 6 Nm	The cap bolt is correctly tightened when the steering bearing and the handlebars have no "play" (i.e. do not "wobble" or "judder") and the handlebars can be moved easily in both steering directions.
Headset cap bolt (stem cap bolt)	max. 2 Nm	

Handlebar alignment

ATTENTION

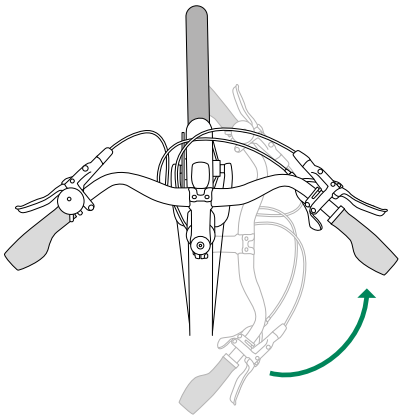
Bolts can be damaged by over-tightening!
Overtightening the bolts can overload them, damage the thread, leading to loss of locking force and breakage of the bolts.
▶ Do not exceed the tightening torque of the bolts.
▶ If necessary, use a suitable torque wrench.

1. Slightly loosen both side stem clamping bolts with the 4 mm hex key.

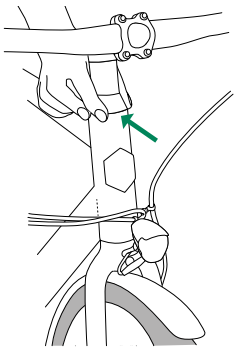


To straighten the handlebars, it is best to stand upright over the top tube, facing the handlebars.

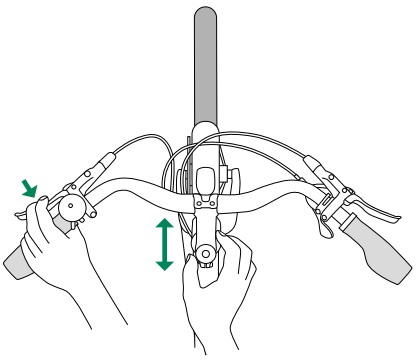
2. Straightening the handlebars.
   - Do not tighten the stem clamping bolts yet.



3. Place your fingers on the cap between the frame and the fork stem.

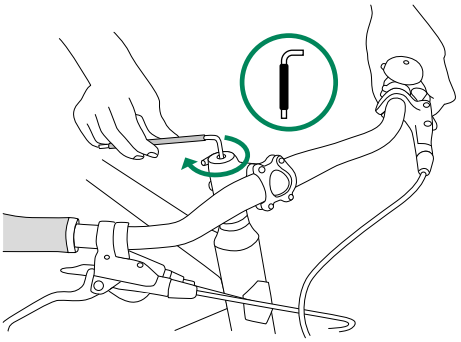


4. Move the wheel back and forth with the front brake applied.
   - If there is noticeable movement of the cap at the transition between the frame and the headset, proceed as follows.

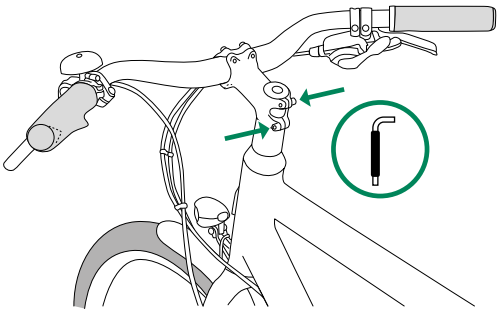


Adjusting the headset

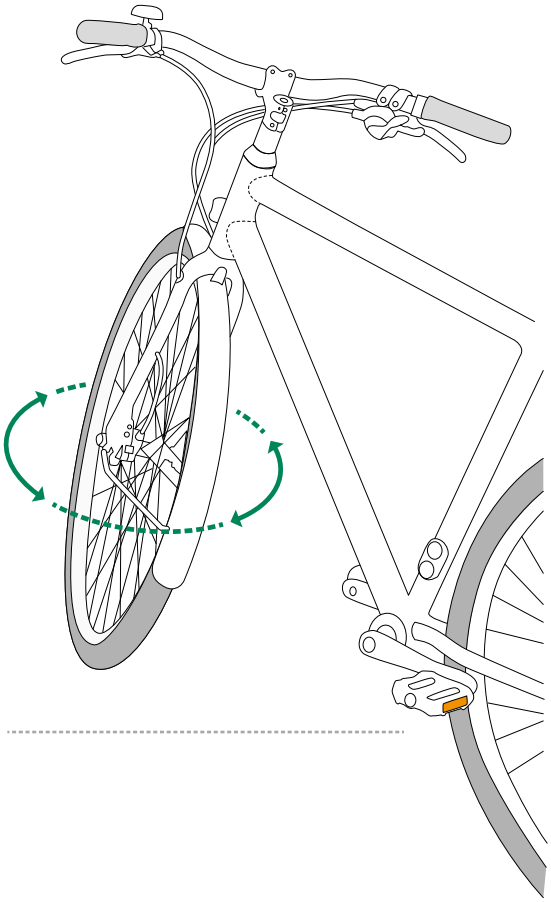
1. Slightly tighten the stem cap bolt with the 4 mm hex key until the cap no longer moves.
2. Check adjustment: Reapply the front brake and gently move the wheel back and forth again.



3. Tighten both side stem clamping bolts on either side with the 4 mm hex key.



4. Turn the handlebars to the left and right and check whether they move smoothly, the wheel moves evenly in the direction of rotation and the headset has no "play".



→ If the movement feels a little too tight:
- Loosen the stem clamping bolts.
- Loosen the bolt of the headset cap a little.
- Tighten the stem clamping bolts again.

→ If there is noticeable "play" on the headset during movement:
- Loosen the stem clamping bolts.
- Tighten the headset cap bolt a little tighter.
- Tighten the stem clamping bolts again.

5.2 Mounting the pedals

ATTENTION

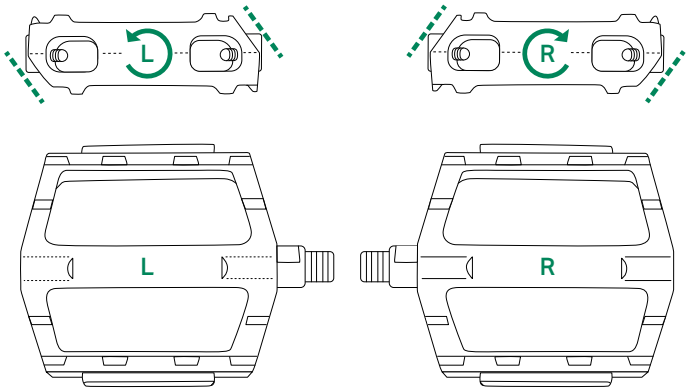
Incorrectly mounted pedals!
If right and left pedals are mixed up during assembly, the threads may get damaged. Riding stability can be affected by loose pedals.
▶ **Ensure** correct assignment of the right and left pedals during assembly.

ATTENTION

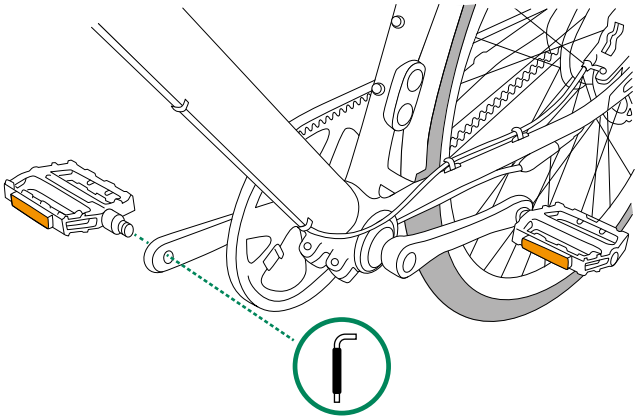
Damaged crank and pedal threads!
If the pedals are difficult to screw into the thread of the crank during assembly, the threads may be getting damaged.
▶ Check the correct assignment of the right and left pedals.
▶ The left pedal has a left-hand thread.
▶ To begin with, only screw the pedals into the thread by hand.

The pedals are marked **R** (right) and **L** (left). That relates to the forward-facing direction of travel. The chamfered edges indicate on which side the pedal is mounted.

- The **R-pedal** is mounted on the side with the chain/belt.
- The **L-pedal** is mounted on the side with the brakes.



1. Screw the pedals into the thread of the crank by hand by turning them a few turns in the direction of travel.
   - When doing so, align the thread of the pedal with the crank arm and do not tilt or skew it when screwing it in.
   - If it is difficult or impossible to screw in: Check whether the correct pedal is selected for the pedal side (the left pedal has a left-hand thread). Check whether the thread has been incorrectly set at an angle when screwing it in.



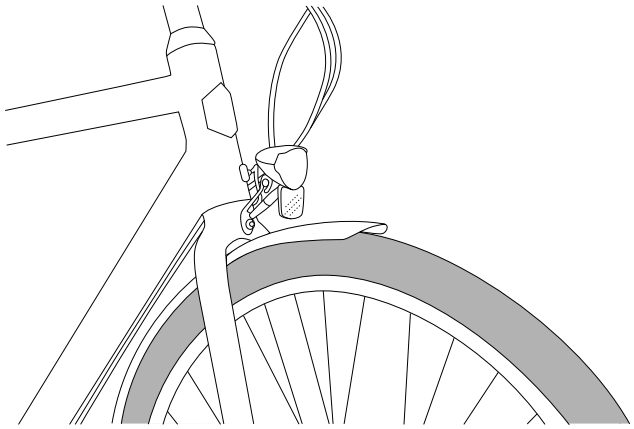
2. When the first threads have been screwed in, insert a 6 mm hex key through the thread in the crank arm and hand-tighten the pedals.
   - Resistance should only be felt at the end of the thread.

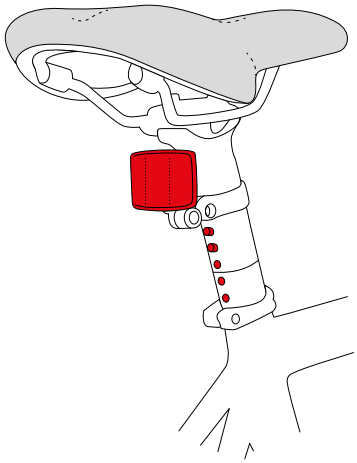
5.3 Fitting the reflectors

All models require one reflector each on the front and rear light. The Stout and Stellar models do not require spoke reflectors on the wheels, as the tyres are equipped with reflective sidewalls.

5.3.1 Attach reflectors to front and rear lights

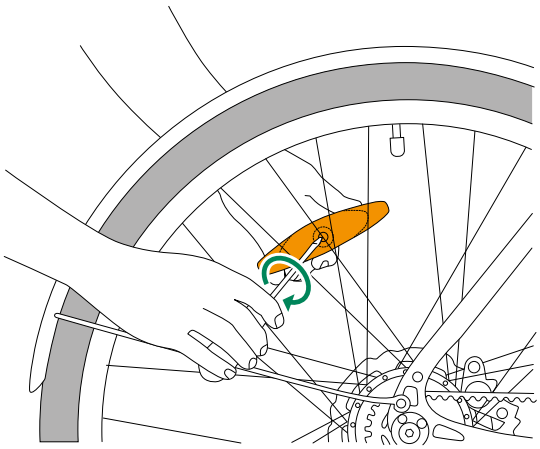
1. Clamp the white front reflector under the front light.
2. Fit the red rear reflector to the bracket.
   - Place the clamp of the bracket around the seat post and hand-tighten the screw with a Phillips screwdriver.





5.3.2 Fit spoke reflectors on Curt model

1. Attach two orange reflectors to the front wheel and two orange reflectors to the rear wheel at a 180° angle to each other.
   - Remove the plastic clip from the reflector.
   - Place the reflector on a spoke..
   - Push the plastic clip back in.
   - Fasten the reflectors with a flat-head screwdriver.



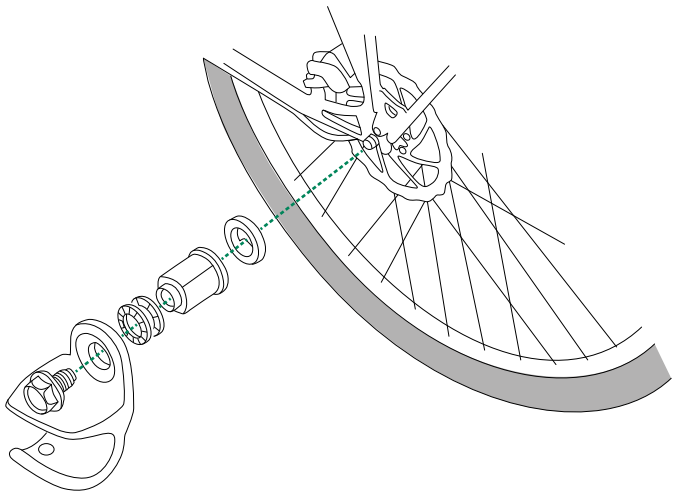
5.4 Fitting the accessories

5.4.1 Trailer adapter (optional)

- ▶ Observe and adhere to the maximum permissible load of the trailer according to the manufacturer's instructions.
- ▶ Observe and adhere to the permissible total weight of the Pedelec with trailer.

Mounting the trailer adapter

1. Remove the nut from the left side of the rear dropout.
   - Do **not** remove the black washer from the dropout: the washer must remain on the axle.
2. Attach the trailer adapter to the axle with a 15 mm spanner.
3. Make sure that the adapter is properly attached.
4. Remove the top screw on the trailer adapter with a 13 mm spanner.
   - Both washers remain as they are on the trailer adapter. The finely notched structure points outwards, the coarsely notched structures interlock.
5. Install the bicycle side axle coupling supplied by the trailer manufacturer, together with the screw, on the trailer adapter.



Connect trailer to axle coupling

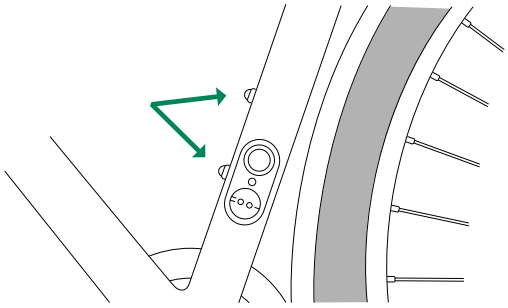
1. Park the Pedelec with the kickstand folded out.
   - For Curt model: Place the Pedelec on a parking stand.
2. Connect the trailer to the axle coupling as described in the trailer instructions.

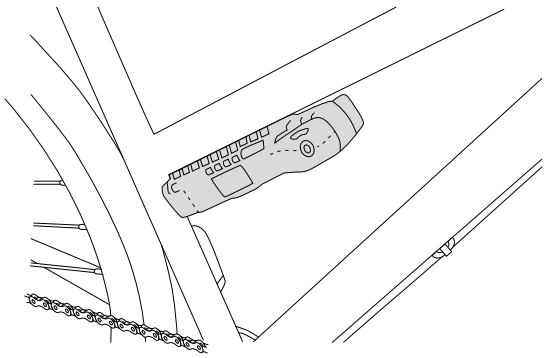
5.4.2 Bike lock (optional)

- ▶ Follow the instructions for the bicycle lock.
- ▶ Only attach the bicycle lock to the Pedelec using the holder provided.
- ▶ Do not allow the bicycle lock to hang loosely on the handlebars, do not store or transport it loosely on the rear carrier.

Mounting the holder for the bicycle lock

1. Mount the bicycle lock holder on the eye bolts (3 mm hexagon socket) for the bottle holder on the Pedelec according to the manufacturer's instructions
2. Insert the bicycle lock into the holder according to the instructions.
3. Ensure that the lock is securely held in place.





6 Before the first ride

After assembly, the Pedelec must be checked before it is used for the first time. Some components can be adapted to the user. We also recommend that you familiarise yourself with the basic functions of the Pedelec, such as switching it on and off.

6.1 Checking the Pedelec after assembly

→ Carry out a visual inspection:
- Are all components (mudguards, bell, pedals, optional accessories) firmly mounted?
- Are all fasteners (on the handlebars, wheels, saddle) tightened?
- Are the cables on the frame running in the right order? Are all cable clips attached?

→ Turn the wheels.
- Do the wheels move smoothly, do they coast freely?

→ Check tyre pressure e.g. with a suitable bicycle pump.
- Do the tyres have the required tyre pressure?

→ Test the brakes: Turn the front wheel and rear wheel separately. Operate brake lever for front wheel and rear wheel.
- Do the brakes grip well and do the wheels stop?

→ For models with gears: Check gears and rear derailleur. Lift the rear wheel (if necessary with the help of a second person), turn the pedals by hand and shift through the gears.
- Does the chain move smoothly?

6.2 Customising the Pedelec

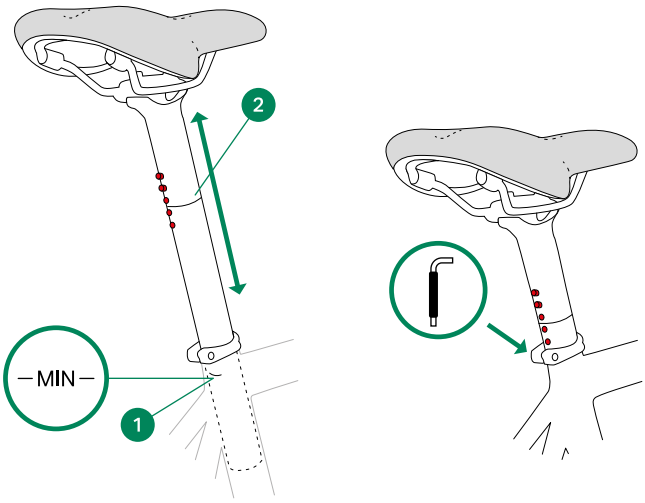
6.2.1 Adjusting the saddle

DANGER
There is a risk of injury from falling due to an incorrectly mounted seat post.
A non-respected required minimum insertion depth can lead to a failure of the seatpost, it can break, slip out the seat tube and lead to serious accidents.
▶ When adjusting the saddle height, observe the marking on the seat post for the minimum required insertion depth and do not adjust it beyond this point.

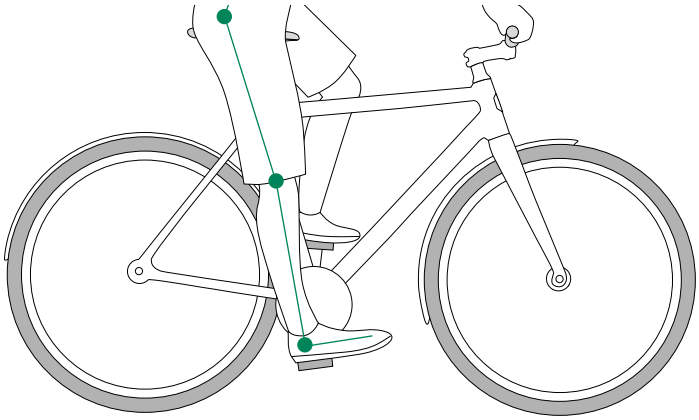
The position for the minimum required insertion of the seat post into the seat tube is 24.5 cm below the head of the seat post.

The safety ring for the maximum possible insertion depth of the seat post into the seat tube is located 10.5 cm below the head of the seat post.

1 Marking for min. required insertion depth
2 Safety ring for max. possible insertion depth



Adjusting the saddle height



1. Slightly loosen the seat post clamp on the seat tube with a 4 mm hex key.
2. Move the seat post to the point where the top of the saddle is approximately at the height of your hip joint.
   - Tighten the seat post clamp.
3. Position the Pedelec in such a way that it is possible to sit on it and support you (e.g. leaning against a wall).
4. Move one pedal to the lowest possible position.
5. Guide the crank so that it forms a straight line with the seat tube. Place your heel on the pedal. Your leg should be straight now with your knee joint still slightly bend.
6. If necessary, loosen the seat post clamp again. Adjust the saddle height so that the leg is almost extended but not fully stretched when the heel is on the pedal.
7. Slide the seat post into the seat tube or pull it out if necessary. Please proceed carefully, **not abruptly**, due to the internal wiring.
   - Take note of the markings for maximum and minimum insertion depth.
   - Do not pull out the seat post further than the minimum insertion mark.
   - Do not push the seat post in further than the safety ring.
8. Check again for the correct height.
9. Tighten the seat post clamp with a 4 mm hex key.

6.2.2 Adjusting the lighting system (light beam of the front light)

The Pedelec's light beam is preset at the factory for proper illumination of the road.

> ! Two TX20 keys are required to adjust the front light (not included; available from specialist shops and tool stores).

6.3 Basic features

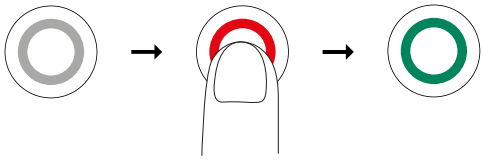
6.3.1 Switching the Pedelec on and off

> ⚠ **DANGER**
> **Falls and very severe injuries could result from pressing the power button while riding!**
> If the power button is pressed while riding, bike stability becomes impaired.
> ▶ Do **not** press the power button while riding.

The Pedelec is easy to switch on and off.

> ❗ The Pedelec switches on automatically when the Ampler Bike App is connected to the Pedelec via Bluetooth.

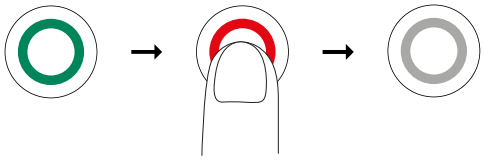
Switching on the Pedelec



Switch off the Pedelec.
Power button is off (not lit)
→ **Briefly** press the power button on the seat tube **1x**.
- The power button lights up **green**.
- The Pedelec is switched on.
- As soon as the pedals are engaged, the e-motor switches on and starts to assist the pedalling movement depending on the selected assistance mode.

Switching off the Pedelec

> ❗ The Pedelec switches off automatically if not moved for 5 minutes.



→ **Briefly** press the power button on the seat tube **1x**.
- The power button light is extinguished.
- The Pedelec is switched off.

6.3.2 Selecting the assistance mode of the electric drive

> **DANGER**
> **Falls and very severe injuries could result from pressing the power button while riding!**
> If the power button is pressed while riding, bike stability becomes impaired.
> ▶ Do not press the power button while riding.

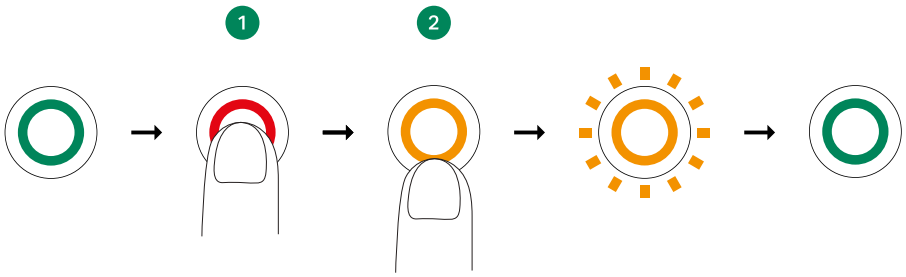
The electric drive has two assistance modes:

- **Standard mode** – 70% pedalling assistance
- **Max mode** – 100% pedalling assistance

The assistance mode is selected before starting the journey when the electric motor is switched on.
The system remembers the last selected mode.

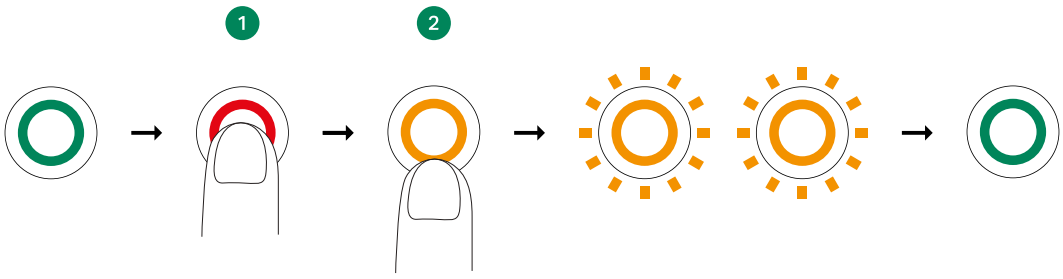
> The assistance mode can also be selected and modified before the ride using the **Ampler Bike App**.

Selecting assistance mode



Pedelec is switched on.
The power button lights up depending on the state of charge.

1. Press and hold the power button.
2. As soon as the power button lights up **orange**: Release the power button.
   - Power button flashes **1x briefly**: **Standard mode** is selected.
   - After that, the LED lights up depending on the charging status.



1. If **Max mode** is desired: Press and hold the power button again.
2. As soon as the power button lights up **orange**: Release the power button.
   - Power button flashes **2x briefly**: **Max mode** is selected.
   - After that, the LED lights up depending on the charging status.

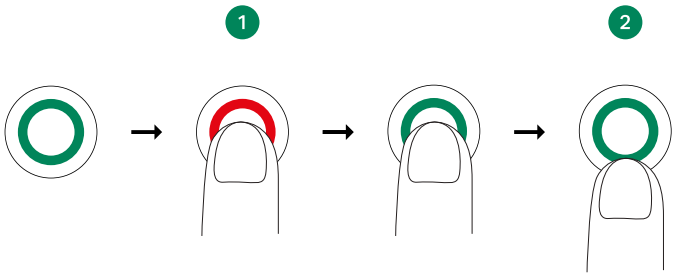
6.3.3 Switching the light on and off

DANGER
Falls and very severe injuries could result from pressing the power button while riding!
If the power button is pressed while riding, bike stability becomes impaired.
▶ Do **not** press the power button while riding.

The light (both front light and rear light) is powered by the battery. The front and rear lights are switched on and off together.
The Pedelec always remembers the last selected setting (light on or off).

The light can be switched on and off using the **power button** or the **Ampler Bike App**.

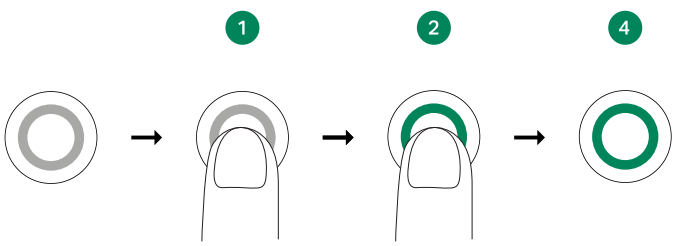
Switch light on / switch light off



Pedelec is switched on.
Power button lights up depending on the state of charge.
1. Press and hold the power button for **1 second**.
   - The LED changes from red to green.
2. Release the power button.
   - The light switches on.

Light-only mode

Setting light-only mode via button is only available from Firmware version 2.1.6/2.4.1 onwards.
Information on how to update your firmware is available on the Ampler Support Portal.



Switch off the Pedelec.
Power button is off (not lit).
1. Press and hold the power button.
2. The LED lights up green.
3. The light switches on.
4. Release the power button.
   - To switch the motor back on, select assistance mode or switch the Pedelec off and on again.

6.4 Charging the battery with the charger

The factory charge level of the battery is between 40% and 90%.

> It is best advised to store the charger indoors.

▶ Read and follow the safety instructions for the battery and the charger.

Before recharging

> After a ride in the cold, give the Pedelec some time to acclimatise ("warm up") before charging the battery.

▶ Use the charger indoors only.
▶ Ensure that the charging port on the Pedelec and the charging plug and mains plug of the charger are clean, dry and free from metallic objects and debris.
▶ The charging process must be carried out in a dry and not too cold environment, but always at least above 0 °C or at room temperature.

Charging the battery

1. Allow the Pedelec and charger to acclimatise to the ambient temperature, if necessary.
2. Insert the magnetic charging plug into the charging socket on the left side of the seat tube.
3. Insert the mains plug of the charger into the mains socket.
   - The charging LED on the charger lights up **red**.
   - The charger charges the battery. The full charging time is approx. 2.5 hours.
   - The charger stops charging automatically when the battery is fully charged.
   - As soon as the charging LED on the charger lights up green, the battery is fully charged.
4. Unplug the charger from the mains socket.
5. Unplug the magnetic charging plug from the charging socket on the left side of the seat tube.

7 Operation: riding the Pedelec

In order to make the daily use of the Pedelec as problem-free as possible for all journeys, there are a few things to bear in mind:

1. Check the Pedelec before each ride using the "Before the ride" checklist.
2. Use personal protective equipment (helmet).
3. Be aware of environmental conditions and special circumstances when riding a Pedelec.

Braking performance during the first few rides
The brake pads of the hydraulic disc brakes do not perform at their full braking power at the first use.
This also means there is a longer braking distance at the beginning.
▶ Note that full braking power is not available during the first few rides.
Bedding-in the brakes
Information on “bedding-in” the brakes is available on the Ampler Support Portal.

Environmental conditions

With a Pedelec, you are usually travelling at higher speeds than with a normal bicycle. This also means that the Pedelec reacts differently to unfavourable environmental conditions: Wetness, rain, snow and ice, but also sand or dirt on the road as well as different road surfaces, can change the steering when swerving at high speeds, and extend braking distances or influence the handling of the Pedelec more than you are used to on a normal bicycle.
▶ When riding, pay attention to the respective environmental conditions and adapt your riding style accordingly.

Riding a Pedelec: braking and cornering

When riding a Pedelec, braking distances can increase due to their usually higher speeds, especially when riding with luggage and carrying weight.
When riding with a trailer, the handling of the Pedelec may change, especially in cornering and when braking.
When cornering, the exerted forces can be higher than what you are normally used to.
▶ When riding with a trailer, carrying luggage or load, and at high speeds, adjust your riding style to suit the conditions.

7.1 Before you ride

7.1.1 Checklist "Before Every Ride"

→ Carry out a visual inspection of the Pedelec and all accessories according to the checklist:
- Are all accessories securely mounted and fastened?

Parts	What to do before each ride?
Brakes	→ Check the function of both brakes. → To do this, lift the front and rear wheels individually, spin them and apply the brakes as a test.
Drivetrain	→ Move both pedals manually. → For models with gears: Check the function of the gear shifting.
Chain	→ Clean loose dirt from the chain and apply oil or lube if necessary.
Rechargeable battery	→ Check the state of charge of the battery.
Lighting system	→ Check the lighting system's functionality. → Check reflectors: Securely attached? Clean?
Tyres	→ Check the tyre tread. Check the condition of the sidewalls. → Check tyre pressure, inflate if necessary.
Wheels	→ Check wheels for smooth, even rotation.
Lock (if present)	→ Check secure fastening of the lock in the holder.
Load, luggage	→ Check to ensure that luggage and loads are securely fastened to the rear carrier.

7.1.2 Personal protective equipment

When riding a Pedelec, wearing a helmet is an indispensable protection that can prevent serious injuries in case of falls or collisions.

▶ Wear a helmet while riding.

7.2 Riding the bike

Checklist "Before every ride" taken into account.
Personal protective equipment is present.

> ⚠ **DANGER**
> **Falls and very severe injuries could result from pressing the power button while riding!**
> If the power button is pressed while riding, bike stability becomes impaired.
> ▶ Do not use the power button while riding.

1. Switch on the Pedelec.
2. If necessary, change the assistance mode on the power button: Select standard or max. mode.
3. If necessary, use the power button to switch the light on or off.
4. On Curt: Fold in the kickstand.
5. Get on the Pedelec and push the pedals.
   - As soon as the pedals are pushed, the electric motor starts to assist the pedalling movement in the selected assistance mode.

7.3 During the first few rides: perform "bedding-in" of the brakes.

The brake pads of the hydraulic disc brakes do not develop their full braking performance when first used and must be bedded-in. This also means there is a longer braking distance at the beginning.

- ▶ Be especially careful when riding for the first time.
- ▶ Try out and get to know the braking effect of the disc brakes in a suitable, safe environment.

"Bedding-in the brakes" Information on "Bedding-in the brakes" is available on the Ampler Support Portal.	

7.4 At the end of the ride

1. Dismount from the Pedelec.
2. Park the Pedelec so that it cannot tip over.
3. Switch off the Pedelec at the power button.

8 Cleaning, maintenance and care

Regular cleaning and care of the Pedelec increases the service life of the components.

Cleaning, maintenance and care
Information and a video on this subject are available on the **Ampler Support Portal**.

8.1 Cleaning

8.1.1 After every ride

→ Clean the Pedelec of excessive dirt after each ride.
→ For damp dirt: Allow the Pedelec to dry before cleaning.
→ Remove heavy dirt with a large, soft brush.

8.1.2 Regular cleaning

ATTENTION

Damage may result from incorrect cleaning of the Pedelec!
A jet of water at high pressure (e.g. from a high-pressure cleaner) can remove lubrication that is necessary, e.g. on bearings and chains, impair their function and cause serious damage to the components (nuts, bearings, seals).
A jet of water at high pressure can cause moisture to intrude the frame, cause serious damage to the battery and electronics, and cause the motor to fail.
▶ Do **not** clean the Pedelec with a high-pressure washer.

ATTENTION

Injuries to eyes and skin due to aggressive cleaning agents!
Cleaning agents can get into the eyes and on the skin if used incorrectly.
▶ Do **not** clean the Pedelec with corrosive cleaning agents.
▶ Follow the cleaning agent manufacturer's instructions for use.

→ Regularly clean the Pedelec manually with water and mild detergent (washing-up liquid).
→ For damp dirt: Allow the Pedelec to dry before cleaning.
→ Remove heavy dirt with a large, soft brush.
→ Clean the chain regularly with a dry cloth.
→ Clean the belt drives regularly with water, mild detergent (washing-up liquid) and e.g. an old toothbrush.

8.2 Care and maintenance

1. Check the Pedelec **regularly, at least monthly,** as indicated in the following table.
2. Replace damaged or worn components or have them replaced by a bicycle workshop.

Parts	What must be done on a regular / at least monthly basis?
Brakes	→ Check brakes for function and wear.
Mudguards	→ Check mudguards for damage and clearance.
Headset	→ Check for headset play.
Rear derailleur	→ Check the functioning of the rear derailleur.
Chain, belt	→ Check the chain/belt tension. → Check the chain lubrication. → Watch for chain wear or chain elongation. → Check the belt for damage.
Wheels	→ Check wheel alignment and true.
• Spokes	→ Check the wheel spokes.
• Front wheel, thru- axle, lock	→ Check the thru-axle of the front wheel.
• Rear wheel, axle, nuts	→ Check the nuts of the rear wheel axle.
Tyres	→ Check tyre pressure. → Check tyre tread and sidewalls for wear and damage.
Screws, nuts, fasteners	→ Check all fasteners for tightness.
Rechargeable battery	→ Check the state of charge.
• Charging port	→ Check the charging port. → Clean the charging port with contact spray and an old toothbrush.

8.2.1 Brakes

After a certain amount of use, disc brakes become less efficient. Dirt and oil on the brake discs and pads become noticeable through noise and reduce braking performance. Switch off the Pedelec.

Check brakes

1. Check brakes for cleanliness and correct adjustment.
   - Applying the brakes should feel smooth.
   - The brake handles must not touch the handlebars when operated.

Check brake pads

1. Check brake pads regularly for wear.
   - Ensure that there is no dirt and no oil or greasy substances on the brake pads, brake calipers and brake discs.
2. Have worn brake pads replaced at a bicycle workshop.

Check the brake hoses

1. Check brake hoses regularly for wear such as kinks and external abrasion.
   - Follow the scheduled inspection interval.
2. In case of abnormalities, heavy wear and visible damage to the brake hoses:
   - Do not **use** the Pedelec.
   - Have the brake hoses checked at a bicycle workshop and repaired if necessary.

8.2.2 Mudguards

Switch off the Pedelec.

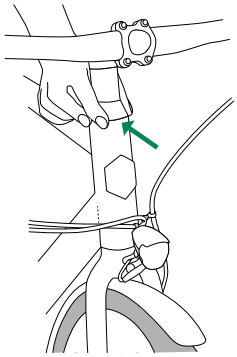
1. Check mudguards for damage and to ensure that they have enough clearance.
2. If the mudguard is rubbing against the tyre, readjust the mudguard struts.
3. **Only replace** the mudguards in consultation with and **in accordance with the instructions of the Ampler Customer Service**, or have them replaced in a bicycle workshop.

8.2.3 Headset

Adjusting the headset
Information and a video on this subject are available on the **Ampler Support Portal**.

Using a torque wrench
If necessary, a torque wrench can be used for assembly (not included; available from specialist shops).

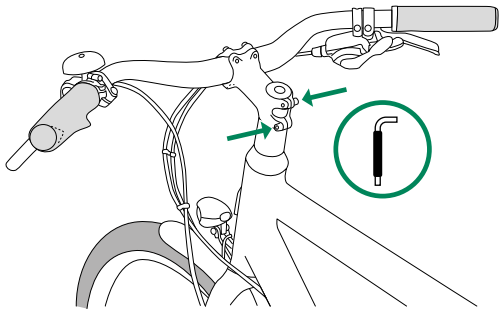
Switch off the Pedelec.



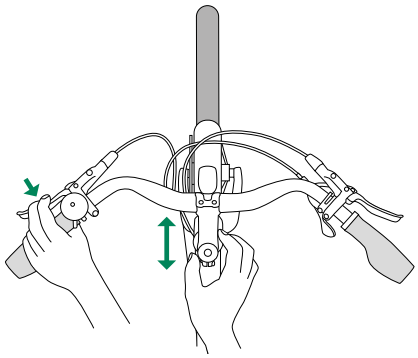
Checking the headset

1. Move wheel back and forth with front brake applied.
   - If it is noticeable that the spacer is moving where the frame meets the headset, proceed as follows.

Adjusting the headset



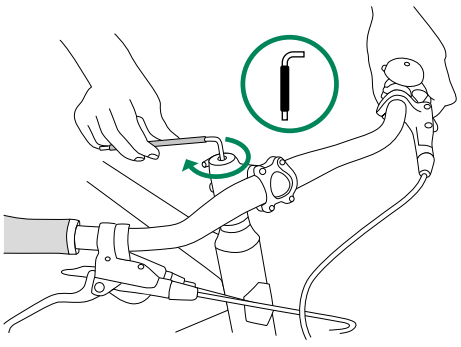
2. Slightly loosen both side stem clamping bolts with the 4 mm hex key.
3. Slightly tighten the bolt of the headset cap until the spacer no longer moves.
4. Check adjustment: Reapply front brake and gently move wheel back and forth again.
5. Tighten both side stem clamping bolts.
6. Turn the handlebars to the left and right and check whether they move smoothly, the wheel moves evenly in the direction of rotation and the headset has no "play".



→ If the movement feels a little too tight:
   - Loosen the stem clamping bolts.
   - Loosen the bolt of the headset cap a little.
   - Tighten the stem clamping bolts again.

→ If there is noticeable "play" on the headset during movement:
   - Loosen the stem clamping bolts.
   - Tighten the headset cap bolt a little tighter.
   - Tighten the stem clamping bolts again.

7. Repeat the check if necessary.



8.2.4 Rear derailleur

Switch off the Pedelec.

Check rear derailleur

→ Check the function of the rear derailleur. To do this, lift the rear wheel and shift through a few gears.
- The gears should change quickly and easily.
- There should be no rasping or grinding noises when changing gears.
- If noises can be heard, or it is not possible to change gears, clean the rear derailleur, especially the guide rollers.

Adjusting the rear derailleur

→ If necessary, have the rear derailleur adjusted by a bicycle workshop.

8.2.5 Chain / Belt

Switch off the Pedelec.

Check the chain and chain tension

Checking the chain tension Information and a video on this subject are available on the **Ampler Support Portal**.	

The links of the chain may elongate (stretch a little) after some time.
This can be checked with a commercially available chain tester.
→ Check the chain tension.

Check the chain lubrication

▶ Ensure that oils and lubricants do not come into contact with disc brakes, or brake calipers with brake pads and rims.

Lubricate the chain Specialist dealers can give tips on the use of the right chain lubricant. Tips on the correct lubrication of the chain are available on the **Ampler Support Portal**.	

Over time, the chain can lose the grease or lubrication necessary for good running.
→ Checking the chain. Does the chain feel dry:
- Clean the chain with a dry cloth.
- Lubricate the chain with some suitable chain lubricant.
- To do this, turn the pedals backwards so that the chain oil is distributed evenly over the entire length of the chain.

Checking the belt tension

Any bicycle workshop can check the belt tension. The measurement can also be carried out by yourself.

Checking the belt tension Information is available on the **Ampler Support Portal**.	

Measuring with a belt tension meter:
(available at specialised dealers)
→ Follow the manufacturer's instructions for measuring the belt tension.

Adjust belt and eccentric

> Belts and eccentrics can only be adjusted with the help of information from Ampler Customer Service.
> ▶ Contact Ampler Customer Service.

Changing the chain

The chain can be replaced if worn or damaged. This requires special tools, which are available at bicycle dealers.

▶ When changing the chain, follow the instructions of the chain and tool manufacturer.

Changing the belt

The belt can be replaced if worn or damaged. This requires special tools, which are available at bicycle workshops.

> The belt can only be changed with guidance from Ampler's Customer Service.
> ▶ Contact Ampler Customer Service.

8.2.6 Wheels

Switch off the Pedelec.

Checking the wheels

→ Check wheel alignment and true.
→ Replace a damaged wheel in consultation with **Ampler Customer Service** or have it replaced in a bicycle workshop in accordance with **Ampler Customer Service** instructions.

Check spokes

→ Check the wheel spokes.
→ If the spokes of the wheels are damaged or loose, only have them trued or replaced by **Ampler Customer Service** or by a bicycle workshop.

Check the thru-axle of the front wheel

→ Check the thru-axle of the front wheel.
→ Tighten the thru-axle. Pay attention to the specified tightening torque.

Check the axle of the rear wheel

→ Check the nuts of the rear wheel axle.
→ Tighten the nuts. Pay attention to the tightening torque and the instructions for correct tightening.
  • When using a torque wrench: Follow the manufacturer's instructions.

8.2.7 Tyres

Switch off the Pedelec.

Check tyre pressure

The correct tyre pressure leads to low rolling resistance and can prevent punctures. It also leads to a better response between torque sensor and motor.
In general, the specifications on the sidewall of the tyre are the maximum allowed pressures in bar or psi. In everyday use, the tyre pressure can be set a little lower, but not higher.

> We recommend the use of a floor pump with a pressure gauge, on which the tyre pressure is clearly shown.
> → Follow the manufacturer's instructions.

→ Check tyre pressure before each ride and approximately once a week.
- Curt model: max. 7 bar
- Stout and Stellar models: max. 6 bar

Check tyre tread and sidewall

The sidewall should be uniformly round in shape and free from cracks, sidewall bulges and grooves.
The tyres should have sufficient, even tread.
1. Check sidewall and tread depth.
2. If the tread depth is too shallow or if there is visible damage to the sidewall: Change the tyres.

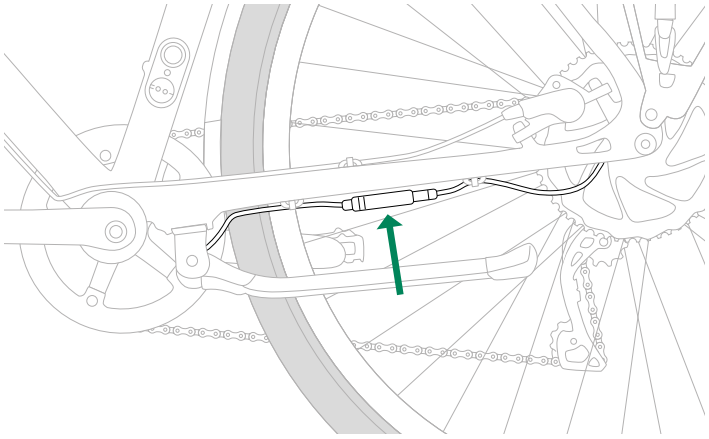
Change tyres (models with chain drive)

Switch off the Pedelec.

> **Removing the rear wheel**
> A video about this is available on the **Ampler Support Portal**. The video explains the necessary assembly steps in detail and contains further tips.

> ATTENTION
> **Damage is caused to the motor cable and drive by wrong disassembly!**
> ▶ Make sure that the motor cable is disconnected at the rear wheel.

1. Disconnect the motor cable at the plug.
2. Deflate the tyre.
3. Unscrew the nut on the right side (drive side) completely from the axle.
4. Removing the wheel.
5. Remove the tyre from the wheel with a suitable tool.
6. Fitting a new tyre.
7. For Stout and Stellar models: Use only tyres with reflective sidewalls.
8. Installing the wheel.
9. Inflate tyres.
10. Tighten the nuts firmly. Pay attention to the tightening torque. Where applicable, use a torque wrench
11. Check the clearance to the mudguard struts.
12. Check that the brakes do not drag.
13. Reconnect the motor cable firmly at the plug. Observe the arrow markings.



Change tyres (models with belt drive)

Changing tyres on models with belt drive requires a special procedure.

▶ Follow the belt manufacturer's instructions and the safety instructions.
- The instructions are available on the Ampler Support Portal.

Switch off the Pedelec.

Removing the rear wheel
A video about this is available on the **Ampler Support Portal**. The video explains the necessary assembly steps in detail and contains further tips.

ATTENTION

Damage is caused to the motor cable and drive by wrong disassembly!
▶ Make sure that the motor cable is disconnected at the rear wheel.

1. Disconnect the motor cable at the plug.
2. Remove the wheel.
3. Remove the tyre from the wheel with a suitable tool.
4. Mount a new tyre.
5. Reinstall the wheel. Keep the following in mind:
6. Bring the rear wheel approximately into position.
7. Place the belt on the front sprocket and then onto the rear sprocket.
8. When the belt is correctly positioned on both sprockets: Insert the rear wheel into the dropouts and tighten the nuts provisionally.
9. Check that the rear wheel is secure and tight in the dropout.
10. Inflate the tyre.
11. Put the wheels on the ground and loosen the rear axle nuts again.
12. Put load on the rear wheel or saddle.
13. The rear wheel is pushed firmly into the dropouts.
14. Tighten the nuts firmly. Pay attention to the tightening torque. Where applicable use a torque wrench.
15. Check the clearance to the mudguard struts.
16. Check that the brakes do not drag.
17. Reconnect the motor cable at the plug.

Changing tyres (on Stout and Stellar models)

→ Only use tyres of the same dimension and with reflective sidewalls.
or
→ When using tyres without reflective sidewalls: Install spoke reflectors.

8.2.8 Screws and nuts

ATTENTION

Damage to bolts and nuts is caused by over-tightening.
Screws and nuts can crack, break or be damaged if they are tightened too much.
▶ Pay attention to the tightening torques.
▶ Tighten bolts and nuts only with suitable tools. Where applicable, use a torque wrench.

→ Check all bolts and nuts on the Pedelec regularly.
- Tighten any fasteners that are loose or have play. Pay attention to the tightening torques according to the table.
- If necessary, visit a bicycle workshop to have the cause of loosening fasteners checked out.

8.2.9 Rechargeable battery

ATTENTION

Damage to the battery is caused by a permanently low charge level when not in use for a long time.
The battery cells may be damaged.
▶ Check the state of charge regularly and charge the battery if necessary.

Check battery

→ Check the state of charge of the **battery regularly every 5 to 6 weeks.**

Charging the battery

→ **Charge the battery when the state of charge is too low.**

Check charging port

1. Check the charging port, especially the contact pins.
2. In case of dirt or corroded contacts: Clean the charging port. Do not use metal brushes or or similar conductive brushes.

Cleaning the charging port

→ If necessary, clean the charging port by applying some contact cleaner and using e.g. an old toothbrush.

9 Troubleshooting faults and errors

Pedelec problem	Cause	Solution
Pedelec sluggish	• Tyre pressure too low	→ Inflate tyres.
	• Brakes rubbing	→ Adjust the brakes.
Pedelec will not switch on.	• Battery fully discharged.	→ Charge the battery.
	• Power button does not respond to button presses.	→ Contact **Ampler Customer Service.**
	• Power button not working, damaged or faulty.	→ Contact **Ampler Customer Service.**
Noise when braking	• Dirt, oil on the brake pads.	→ Check and clean brake pads. Replace if necessary.
"Creaking noises" when putting load on the pedals	• Loose pedals.	→ Tighten the pedals with correct tools. → Where applicable, unscrew the pedals, apply a little grease, screw them back in.
Rubbing noises when riding	• Mudguards and/or struts rub against the tyre.	→ Check the position of the mudguards and adjust if necessary.
E-motor does not switch on when pedalling.	• Pedelec is not switched on. • Motor support is not switched on.	→ Switch on the Pedelec. → Switch on the motor support.
	• Motor cable damaged or faulty.	→ Contact **Ampler Customer Service.**
	• Motor cable not connected.	→ Check whether the motor cable is connected. Connect the motor cable.
It is difficult or impossible to change gears.	• Dirty rear derailleur	→ Clean the rear derailleur.
	• Rear derailleur/Gearshift misaligned.	→ Have rear derailleur and gears adjusted by a bicycle workshop.
Front light does not light up.	• Cable to the light defective or unplugged.	→ Check the light cable and plugs.
	• Light cable incorrectly connected.	→ Note the polarity of the light cable plug on the head tube connection
	• Lamp defective.	→ Contact **Ampler Customer Service**.
Rear light on the seat post does not light up.	• Rear light is faulty or is defective.	→ Contact **Ampler Customer Service**.
Charger error		
Charging LED does not light up.	• Connection to mains power not available. • Battery connection not functional.	→ Insert the mains plug into the mains socket. → Plug the charging plug into the charging socket.
	• Battery cannot be charged, battery is defective.	→ Contact **Ampler Customer Service**.
	• Charger is not charging, charger is defective.	→ Contact **Ampler Customer Service**.
Ampler Bike App error		
Pedelec does not respond to the Ampler Bike App.	• Connection is disconnected, dropped or lost.	→ Restart the firmware.

9.2.1 Restarting the firmware

A firmware restart resets the Pedelec's settings and restarts the Pedelec's electrical system support.
This can help to solve the following issues:

- Minor faults or deviations in the behaviour of the Pedelec
- Issues with the power button
- Communication issues between **Ampler Bike App** and the Pedelec

Restart the firmware

1. Press and hold the power button for at least 10 seconds until the LED on the power button is no longer lit, then release it.
   - The Pedelec's software switches off.
2. Press the power button again to switch on the Pedelec.
   - The Pedelec switches on.
3. If this method does not work: Contact **Ampler Customer Service.**

10 Ampler Bike App

The Ampler Bike App is not mandatory for using the Pedelec. Information on how to download the Ampler Bike App:	

10.1 Features

Information on the Pedelec

The Ampler Bike App provides the following information:

- State of charge, estimated battery range, total mileage, cycling speed
- Activating the button lock
- Information on firmware updates

Adjustment of the motor power and max. speed

The Ampler Bike app allows you to adjust the Pedelec's settings and control functions:

- Adjust motor assist modes - change percentage strength of standard or max mode
- Switching the lighting system on and off

10.2 Install and use the Ampler Bike App on a smartphone

Find more information on installing and registering in the Ampler Bike App:	

10.3 Updating the Pedelec's firmware

The Pedelec has a software-controlled motor driver integrated into a control unit. The software of the controller is called firmware and is updated occasionally.

- We recommend that you always keep the Pedelec's firmware up to date.

All information on how to use the Ampler Bike App to update the Pedelec's firmware is available in the Ampler Bike App.	

10.4 Carry out calibration of the torque sensor

During **calibration**, the Pedelec's torque sensor is adjusted and the functionality of all electronic components is synchronised with each other. This calibration is carried out using the Ampler Bike App.

We recommend calibrating the sensor every 3 to 6 months.

Ampler Bike App installed on a smartphone.
Ampler Bike App connects to the Pedelec via Bluetooth.

1. In the Ampler Bike App, open the settings menu and select the menu item "System maintenance".
2. Follow the calibration instructions in the Ampler Bike App.

11 Inspection and maintenance

Inspection and maintenance of the Pedelec can be carried out by any bicycle workshop.

Information on inspection and maintenance schedules:	

11.1 Inspection schedules

Schedule	When?
First inspection	• after 500 km or after approx. 6 weeks
Annual inspection	• at least once a year and • every 3000 km
Regular inspection	Recommendation: with frequent use (high mileage) at least 2 to 3 inspections per year: • before the start of the season • during the season • at the end of the season

12 Repair

Repairs to the Pedelec can only be carried out by a bicycle workshop or by Ampler Bikes, depending on the particular case. Ampler customer service always decides who can carry out the repair in each individual case.

→ Before making repairs: Contact Ampler Customer Service.

13 Decommissioning

If the Pedelec will not be used for a longer period of time (e.g. in winter), it should be decommissioned, or “put out of operation".

13.1 Decommissioning the Pedelec

1. Clean the Pedelec.
2. Charge the battery to approx. 70%.
3. Check the state of charge regularly.
   - If necessary, recharge the battery to 70%.
4. Store the Pedelec in a clean, dry place.
5. Follow the instructions for correct storage.

14 Storage

Storing the Pedelec

Since the battery is permanently installed in the frame of the Pedelec, the following rules apply to the storage of the Pedelec when it is not used for a longer period of time:

▶ Store the Pedelec in a dry place, not below 0 °C ambient temperature.
▶ Protect the Pedelec and storage location from direct sunlight, heat, permanently high temperatures, rain, moisture and humidity, frost and ice.

Check the battery regularly

If the Pedelec is not used regularly, the battery can discharge over time.
As a rule, the battery should maintain a state of charge between 40-80%.

▶ Check the state of charge of the battery regularly.

ATTENTION

Damage to the battery is caused by a permanently low state of charge when not in use for a long time.
The battery cells may get damaged.
▶ Check the state of charge regularly and charge the battery if necessary.

15 Disassembly

Before shipping the Pedelec in its original packaging, before storing it for a longer period of time and when putting it out of operation, some components of the Pedelec can be disassembled. This includes: seat post, saddle, if necessary also the pedals.

16 Disposal


→ Do not dispose of the battery and charger in household waste. Dispose of the battery and charger in accordance with local regulations for recycling electrical equipment.


→ Dispose of Pedelec components according to locally applicable regulations.

17 Technical specifications

17.1 Pedelec

Parameters	Value Stout Model	Curt Model	Stellar Model
Frame			
• Size	55 / 59 cm	50 / 54 / 58 cm	48 / 55 cm
• Shape		Diamond	Low-step
Weight specifications, maximum load			
• Total weight of the Pedelec, without cargo, without accessories	17,1 kg	13,4 kg (single-speed) 14,4 kg (11-speed)	17,1 kg
• The maximum possible load (rider, luggage)		Rider: 110 kg Rider and luggage: 120 kg	
• Max. load rear carrier	18 kg	–	18 kg
• The maximum permissible total weight (incl. rider and luggage)	137 kg (rounded)	134 kg (rounded)	137 kg (rounded)
Drivetrain	9-speed	• single-speed • 11-speed	9-speed
Brakes • Front wheel/rear wheel		hydraulically operated disc brakes	
Wheels and tyres			
• Size		28“	
• Tyres, size	42–622 mm	32–622 mm	42–622 mm
• Tyre pressure (bar / [psi])	max. 6,0 bar [85 psi]	max. 7,0 bar [102 psi]	max. 6,0 bar [85 psi]
Lighting system			
• Front light		LED	
• Rear light		5 LEDs, integrated in seat post	
Motor		Rear wheel hub motor	
• Rated voltage		48 V	
• Continuous rated power		250 W	
• Max. assist speed		25 km/h	
Rechargeable battery		Li-Ionen	
• Ambient temperature		>0 °C	
• Rated voltage		48 V	
• Rated capacity		336 Wh	
• Charging time		approx. 2,5 h	
• Range (depending on assistance mode and riding style)		approx. 70 km	
Drive emissions			
• Noise levels		<70 dB	

Tightening torques

Position	Tightening torque	Tools
Handlebars (headset)		
• Headset cap bolt (stem cap bolt)	• max. 2 Nm	• 4 mm hex key
• Stem clamping bolts (2)	• max. 6 Nm	• 4 mm hex key
Saddle clamp	• 9 - 10 Nm	• 5 mm hex key
Seat post clamp	• 5 - 6 Nm	• 4 mm hex key
Thru axle front wheel	• 10 Nm	• 6 mm hex key
Rear wheel axle, nuts	• 10 Nm	• 6 mm hex key or 15 mm spanner

17.2 Battery charger

Parameters	Value
Battery charger	external
• Voltage mains supply	220–240 V~ , 50/60 Hz
• Plug connector	Rosenberger, magnetic
• Voltage output	54,6 V
• Charging current output	3,0 A

17.3 Accessories: trailer adapter

Parameters	Value
Trailer load	No limitation → Pay attention to the max. load capacity of the trailer.
Mounting	on rear wheel axle

18 Further information

18.1 Addresses

18.1.1 Manufacturer

Ampler Bikes OÜ
Telliskivi tn 60/2, Tallinn
10412 Estland

18.1.2 Customer Service

hello@amplerbikes.com
Telephone: +49 30 5683 7159

18.2 Ampler Support Portal

The Ampler Support Portal provides further information:	

- Notes and videos on all stages of use.
- Notes on how to reach the customer service.
- Notes on the General Terms and Conditions, Guarantee and Warranty
- Notes on exchanging information with other users of an Ampler bike, e.g. on social media.

19 EC Declaration of Conformity

Manufacturer: Ampler Bikes OÜ
Address: Telliskivi 60/2, Tallinn, 10412, Estonia

Declares that the machinery described

Product: Electrically power assisted cycle (EPAC)
Trade name: Ampler
Model: Curt 2021
Stellar 2021
Stout 2021

Conforms to the following directives

2014/35/EU LVD Low Voltage Directive
2014/30/EU EMC Electromagnetic Compatibility
2006/42/EC MD Machinery Directive
2011/65/EU RoHS

Conforms to the following standards

LVD	EN 60335-2-29:2009
EMC	EN 15194:2017
MD	EN 15194:2017/EN ISO 12100:2010/EN ISO 13849:2015

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Tallinn, Estonia

Notes

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