

# BIMAS CARGO

## User manual





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# 1 About this manual

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First of all, thanks for choosing Bimas cargo !

**BIMAS CARGO** stands for **Urban** Mobility and we have reinvented the transport bicycle: afresh new design, lightweight, safe and comfortable materials together with the powerful and reliable electric pedal assist and A-brand components (e.g. NEXUS Enviolo, CST , **Bafang**).

This model is designed for families with young children who want a green, affordable and also time saving alternative to owning a (second) car.

This manual will help you learn everything you need to know about your **BIMAS CARGO** . It explains how to ride and operate the bike and how to perform basic maintenance tasks. It is strongly recommended to read it in full.

### Used symbols

<b>6</b>	<b>Warning</b>	Indicates a hazardous situation that, if not avoided, could result in serious or fatal injury and/or serious damage to a product or surrounding.
<b>△</b>	<b>Caution</b>	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury and/or damage to a product or surrounding.
<b>2</b>	<b>Note</b>	Information that should be considered important, but is not injury or damage related.
<b>Tip</b>	<b>Tip</b>	Useful information.

### Warranty

**BIMAS CARGO** guarantees that this product has been manufactured according to the latest European safety standards and quality requirements applicable to this type of product and that this product, at the time of purchase, has no defects in workmanship and material. During production various quality checks have been performed. Should it happen that, despite all our efforts, during our warranty period(s) your **BIMAS CARGO** shows a material and/ or manufacturing fault (with normal use as described in the manual), then **BIMAS CARO** is required to respect this warranty. If you feel your warranty should be applied or if you want detailed information on the application of your warranty please contact your **BIMAS CARGO** dealer.

The following warranty stipulations apply to your **BIMAS CARGO**

\*. All terms are applicable counting from date of purchase.

- A five year warranty on the frame and the fork except for wear parts.
- A two year warranty on the paint and on visible rust from the inside.
- A two year warranty on all other parts. Wear parts such as the tyres, the chain, the pedals, bearings, the safety belts, ball ends, etc. are exempt from this warranty.

- A two year guarantee on the battery. The capacity of the battery will decrease depending on the number of charge cycles and battery life. This decrease in capacity is not covered by the warranty.
- During the valid warranty period(s) all parts where **BIMAS CAGO** has determined that there is a construction or a material defect, will be repaired or reimbursed at **BIMAS CAGO**'s discretion.
- The factory warranty can only be claimed upon presentation of the original purchase invoice.

\* The warranty stipulations are applicable only by the first owner.

Your warranty will be voided or will not be applicable in case your **BIMAS CARGO** (and/or its parts):

- Has been altered in its construction.  
Never make any modifications to your electrical drive unit or fit any other products which would be suitable for increasing the performance of your e-bike.
- Has seen insufficient maintenance (for sufficient maintenance please follow the service plan as described in chapter 11).
- Has been misused or has been involved in an accident.
- Has defects following normal wear.
- Has been damaged during transport.
- Has been damaged through mounting accessories (such as bags) not sold or produced by **BIMAS CARGO** ● Has been used differently than the product is intended for.

- Has continued to be used despite damage and/or defects have been found, and this made the damage worse.
- Has not been maintained/serviced by a registered **BIMAS CARGO**

△ **Only a qualified bike dealer should perform any necessary work on the gear hub and grip shifter. Unauthorized work on any of these parts could endanger you, and your warranty may become void.**

Claiming warranty:

- Complaints and warranty claims will be dealt with by your **BIMAS CARGO** dealer. In the event of complaints or questions about the warranty, your **BIMAS CARGO** dealer will always be your first point of contact, since this is where the contract of sale was concluded.  
**BIMAS CARGO** will then make a definitive assessment on whether the warranty applies. The dealer must send the part in question, together with the purchase invoice, to **BIMAS CARGO**, stating the complaint.
- Your dealer may charge you for any assembly or dismantling costs.
- Your dealer may charge you for the transport charges associated with getting the bicycle and/or parts from your dealer to **BIMAS CARGO**

### Liability

A claim honored by **BIMAS CARGO** under these warranty terms and conditions does not constitute any admission of liability on the part of **BIMAS CARGO** for any loss or damage suffered by the owner or third parties. Any liability on the part of **BIMAS CARGO** for consequential damage is hereby excluded. The liability of **BIMAS CARGO** is limited to whatever is set out in the warranty terms and conditions, unless otherwise arising from a mandatory legal provision.

### Disclaimer

**BIMAS CARGO** has taken great care in compiling these warranty terms and conditions. But liability as a consequence of printing or typographical errors is excluded.

### Assistance

In case you need help or have any questions regarding your **BIMAS CARGO** please contact your local **BIMAS CARGO** dealer.

For more **BIMAS CARGO** information, technical information and news items please check our website and our social media

#### Our website:

[www.bimasbikes.nl/](http://www.bimasbikes.nl/)

#### Our YouTube channel

<https://www.instagram.com/bimasbikes/?hl=en>

#### E-mail

[Contact@bimasbikes.com](mailto:Contact@bimasbikes.com)

## 2 The BIMAS CARGO

The **BIMAS CARGO** Family bike is an e-bike. The bike is intended to be used on a regular paved surface and the tires are intended to maintain ground contact. The bike contains an electrical drive unit that assists you up to a speed of 25 km/h when riding. As soon as you push on the pedals the assistance is switched on and it switches off as soon as you stop pedalling or when you have reached a speed of 25 km/h. The bike can also be ridden as a normal bicycle (no assistance) and has a push assistance mode in which the e-bike can be pushed at low speed without pedalling.

Your **BIMAS CARGO** bike comes with a bench mounted inside the box and two sets of safety belts. This bench provides enough room for **four** young children. The bench will also fit one adult. Adults will not be able to use the safety belts.

### 2 Check the local regulations to learn about possible restriction

with regard to transport of passengers on a bike.

### 2 Check the local regulations on registering and using e-bikes on public roads.

### 2 For handicapped persons it is possible to mount a custom seat or bench inside the box. Please refer to your **BIMAS** dealer for more information.

**Tip** The bench can be removed and refitted depending on your cargo space requirements. Check with your **BIMAS CARGO** dealer for advice.

Important technical specifications of the e-bike	
Total length	218 cm
Height	Max. 124 cm (depending on handlebar height the e-bike can be less high)
Width box / handlebar	69 cm / 64 cm
Total Width	84 cm
Weight of the empty e-bike	71,5 kg
Max. combined weight	250 kg
Max. rider weight	100 kg

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

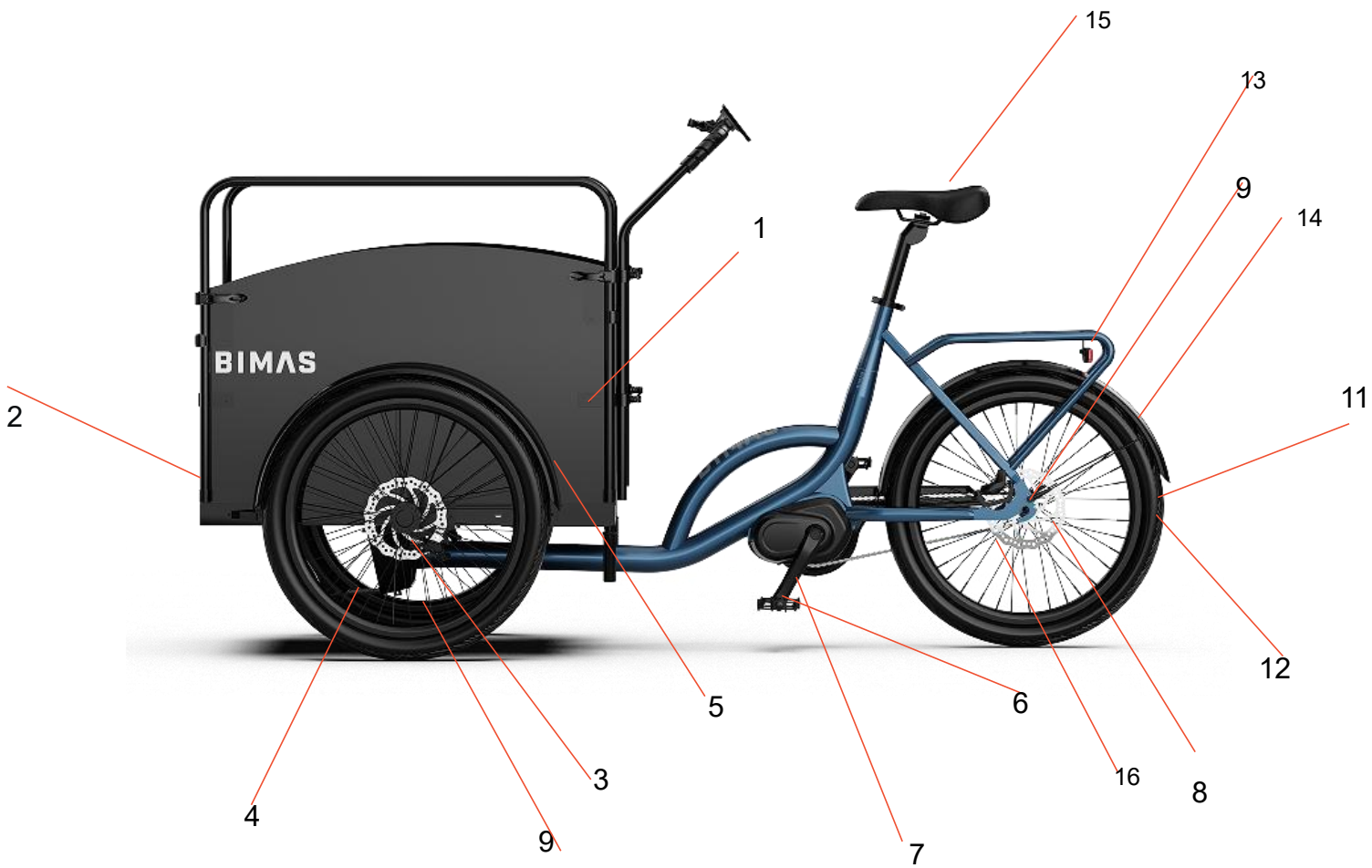
- 6 **Never overload your e-bike. This has a negative impact on the steering and braking behaviour of the e-bike which may lead to accidents. For damage caused by bike overload any warranty claims shall be invalid.**
- 2 **The e-bike can be used within a temperature range between -5 °C and 40 °C.**

### **The e-bike and its parts**

The **BIMAS CARGO** Family e-bike comes in a number of versions. Your bike has either:

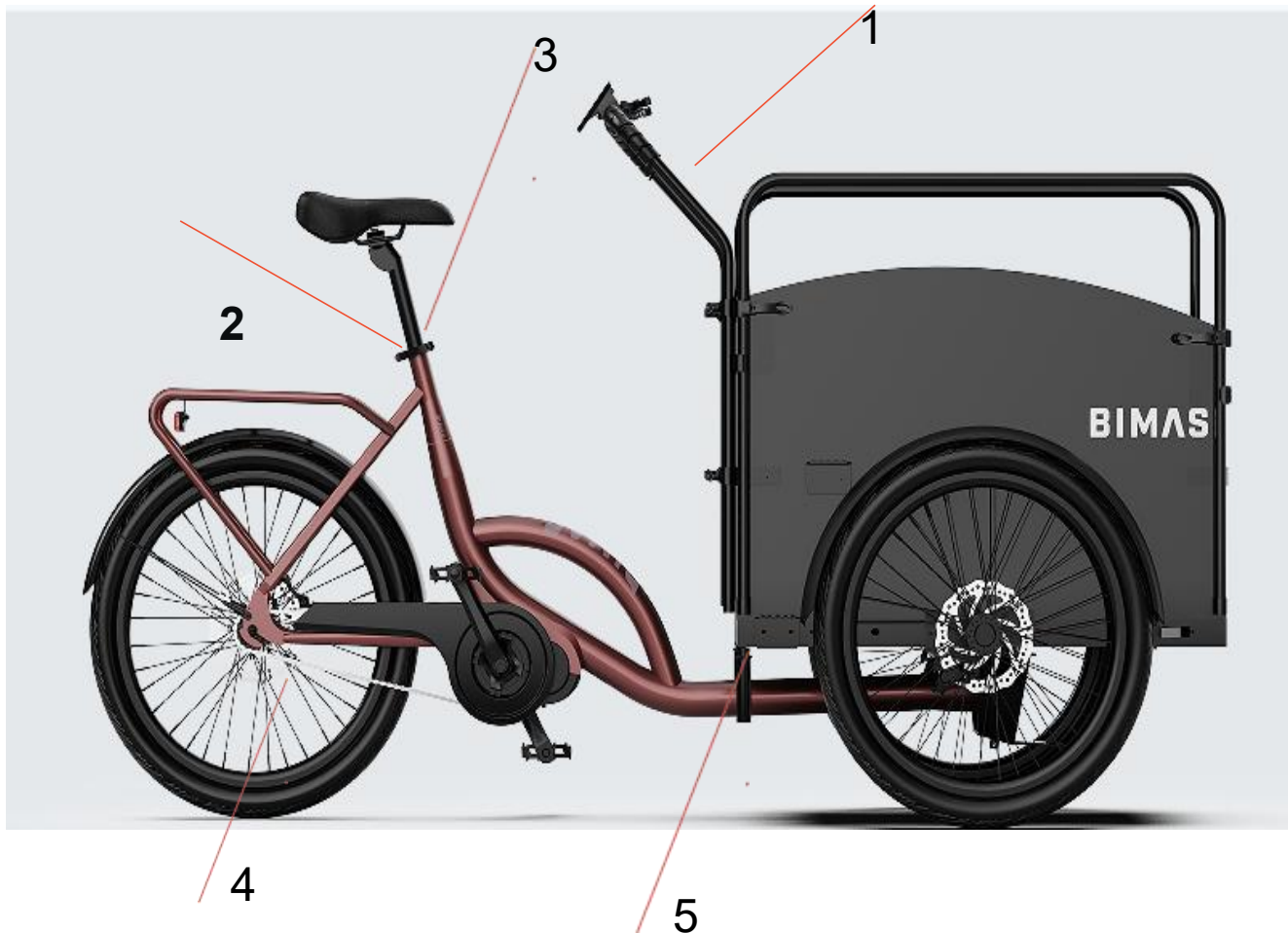
- **Hyd Disc** brakes
- A removable display or a non-removable **Bafang C020** display
- A grip shifter

Apart from these options, the type of motor and the capacity of the battery, all **BIMAS CARGO** e-bikes are technically identical.



**Image1: GeneralOverview ( side view )**

1	Wodden box
2	Front light
3	Axle nut
4	Front wheel
5	Front fenders
7	Pedals
8	Pedal crank arms
9	Sprockets
10	Rear fork
11	Pad
12	Tire
13	Rear light
14	Rear fenders
15	saddle
16	Disc brake



<b>Image 2: General overview (side view)</b>	
1.	Bafang display
2.	Seat post
3.	Seat post quick release
4.	Gear hub
5.	Frame number



80 gear barrel adjuster

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Image 3: Handlebar with **Bafang** display and gearshifter with gear indicator

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## 3 Safety

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Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all safety warnings and instructions for future reference.

### 6 Warning

- When you cycle with a damaged front fork it can cause the front fork to break during riding. This may lead to loss of control of the bike. Always have your bike checked by your **BIMAS CARGO** dealer in case the front fork of your bike was hit or your bike ran into an object with the front wheel.
- Children may only use the e-bike and all its components under supervision or after having been instructed by a responsible person. Otherwise, there is danger of operating errors and injuries.
- Supervise children during use, cleaning and maintenance of the bike. Don't let children play with the charger. Keep the battery out of reach of children. Risk of electrical shock.
- Do not open the electrical drive unit yourself. Opening of the electrical drive unit can cause leakage of water into the drive unit, which may lead to malfunctioning of the electrical drive unit. The electrical drive unit must be repaired only by qualified experts and only with original spare parts. This will ensure that the safety of the electrical drive unit is maintained. Unauthorized opening of the electrical drive unit will void warranty claims.
- Never make any modifications to your electrical drive unit or fit any other products which would be suitable for increasing the performance of your e-bike. This normally reduces the lifetime of the system and risks damage to the electrical drive unit and the bike. If you handle the system improperly you also endanger your safety and that of other road users, thus run the risk of high personal liability costs and possibly even criminal prosecution in the event of accidents attributable to manipulation. There is also a risk you lose the guarantee and warranty claims on the bike you have purchased.
- Always use original **Bafang** batteries approved by your **BIMAS CARGO** dealer. When you use other batteries, **BIMAS CARGO** shall not assume any liability and warranty. The use of incorrect batteries can cause short circuiting and/or overheating which may lead to injuries and pose a fire hazard.
- Use the battery only together with e-bikes that have an original **Bafang** electrical drive unit. This is the only way to protect the battery against dangerous overload.
- Never open the battery. Danger of short-circuiting which may cause burns or a fire. When you open the battery voids any and all warranty claims.
- Protect the battery against heat (e.g. prolonged sun exposure) and fire. There is a risk of explosion. Never store or operate the battery near hot or flammable objects.
- Never submerge the battery in water or clean using a jet of water. Danger of short-circuiting which may pose a fire hazard.
- Keep the battery not being used away from paper clips, coins,

keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery-pack terminals together may cause burns or a fire. For short-circuiting damage caused in this manner, any and all warranty claims through **Bafang** shall be invalid.

- Under abusive conditions, liquid may be ejected from the battery. Avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause skin irritations or burns.
- Place down the battery only on clean surfaces. In particular, avoid soiling the charge socket and the contacts, e. g. by means of sand or soil. Danger of short-circuiting which may pose a fire hazard.
- Never attempt to charge or use a damaged battery. There is a risk of explosion. Always contact your **BIMAS CARGO** dealer when your battery is damaged.
- Keep the charger away from rain or moisture. The penetration of water into a battery charger increases the risk of an electric shock.
- Keep the battery charger clean. Contamination can lead to danger of an electric shock.
- Never operate the battery charger on easily inflammable surfaces (e. g., paper, textiles, etc.) or surroundings. The heating of the battery charger during the charging process can pose a fire hazard. Before each use, check the battery charger, cable and plug. If damage is detected, do not use the battery charger. Damaged battery chargers, cables and plugs increase the risk of an electric shock. Never open the battery

charger yourself. Contact your **BIMASCARGO** dealer when your battery charger is damaged.

- A sticker in English is adhered to the bottom of the charger (marked 31 in the diagram on the graphics page). This says: Use **ONLY** with **Bafang** lithium-ion batteries. Follow this instruction.

### △ Caution

- Batteries must not be subjected to mechanical impacts. There is a risk that the battery will be damaged causing vapors to escape. The vapors can irritate the respiratory system. Provide for fresh air and seek medical attention in case of complaints.
- The battery may give off fumes if it becomes damaged or is used incorrectly. Provide a fresh air supply and seek medical advice in the event of pain or discomfort. These fumes may irritate the respiratory tract.
- Observe the mains voltage! The voltage of the power supply must correspond with the data given on the nameplate of the battery charger. Battery chargers marked with 230 V can also be operated with 220 V. When the main voltage is too high the battery will be damaged.
- Please observe the operating and storage temperatures of the e-bike components. Protect the electrical drive unit, display and battery against extreme temperatures (e.g. from intense sunlight without adequate ventilation). The components (especially the battery) can become damaged through extreme temperatures.

## 4 Before first use

On delivery of your bike the battery is supplied partially charged. To ensure full battery capacity, completely charge the battery in the charger before using for the first time. See paragraph 7.2 how to charge the battery.

Prior to your first ride your bike needs to be fit in an optimal way. In this chapter we explain how this should be done.

### 4.1 Bike fit

Adjust the saddle height and handlebar position according to your personal preference in order to ride your new bike in an optimal way.

Tips for an optimal setting (see image 5):

- Don't put the handlebar too low or too far away. Leaning too much forward will put stress on your lower back and wrists.
- When adjusting the saddle height your feet (not just the toes) should touch the ground while seated on the saddle.
- When positioning your foot on the pedal at its lowest point your knee should be slightly bent.

It is common for an **BIMAS CARGO** bike to be ridden by more than one rider. In that case adjusting the seat post height to the correct height is more critical than adjusting the handlebar height.

**Tip** Please consult your **BIMAS CARGO** dealer for a professional bike fit.

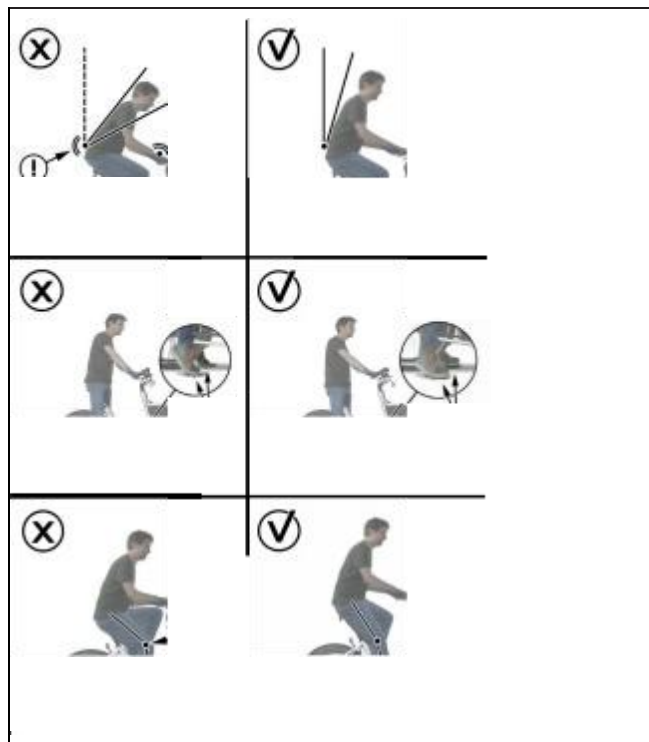


Image 5: Bike fit tips

#### 4.1.1 Saddle height adjustment

The height of the saddle is adjusted as follows:

1. Open the seat post quick release located on the seat post clamp. The seat post will now sit loose in the frame (see image 6).
- 2 The seat post clamp should remain in place. There is no need to slide it off the frame or to take it off completely.**
2. Put the saddle at the required height. Pay attention to the following:
- 6 The indication on the seat post (a line of vertical stripes) should never be visible (see image 7). When you extend the seat post beyond the minimum insertion mark the seat post can break during cycling, which may lead to loss of control of the bike.**
- 6 Never insert the seat post too much, always clamp the clamp on the cylindrical part of the seat post (see image 7). When the clamp is placed on the narrower part of the seat post, the seat post can start turning during cycling. This will cause the saddle to turn during cycling which may lead to loss of control of the bike. There is no mark to indicate the maximum insertion length of the seat post.**
3. Close the seat post quick release completely by pushing it against the seat post clamp (see image 8).

Is the seat post able to turn in the clamp when the lever is closed or are you not able to close the seat post quick release? Then the clamp force needs to be adjusted. Adjust the clamp force as follows:

1. Open the seat post quick release .
2. Adjust the clamp force:
  - a. Turn the adjusting screw opposite the lever a few turns clockwise to make the clamp tighter.
  - b. Turn the adjusting screw opposite the lever a few turns counter clockwise to make the clamp looser.
3. Close the seat post quick release completely by pushing it against the seat post clamp.



Image 6: Opening the seat post quick release

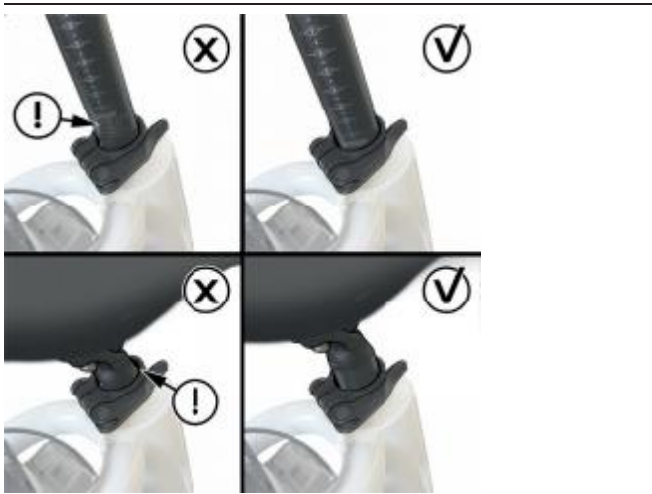


Image 7: Max and min insertion seat post



Image 8: Closing the seat post quick release

#### 4.1.2 Handlebar/stem adjustment

The handlebar position can be adjusted according to your personal preference. Adjusting the angle of the stem will change the handlebar height.

The angle of the handlebar and the angle of the stem are adjusted as follows:

### 2 Use a 5mm Allen key to make the adjustments.

1. Turn the stem bolt a few turns counter clockwise to loosen it. There is no need to rotate the bolt any further.
2. Adjust the angle of the stem and the angle of the handlebar to the required setting.

△ **Always stay within the range indicated on the side of the stem while adjusting. When you adjust the stem to a position out of this range the stem might break during cycling. This may lead to loss of control of the bike.**

3. Turn the bolt clockwise to tighten it.

**Tip** Use one hand to hold one end of the handlebar and use it to move the handlebar to the required position. Use your other hand to tighten the bolt.

**2** The bolt should be tightened to the correct torque.  
Overtightening could lead to the bolt breaking, not tightening the bolt enough could lead to slippage of stem and bars (they could move when you ride over a bump for instance). A confident home mechanic should be able to judge the correct torque by hand. Check appendix A for the correct torque values.

4. Sit on the saddle and face forward. Rotate the grips to optimise the angle of the brake levers..  
The angle of the brake levers is set correctly when the brake levers visually disappear behind the grips.

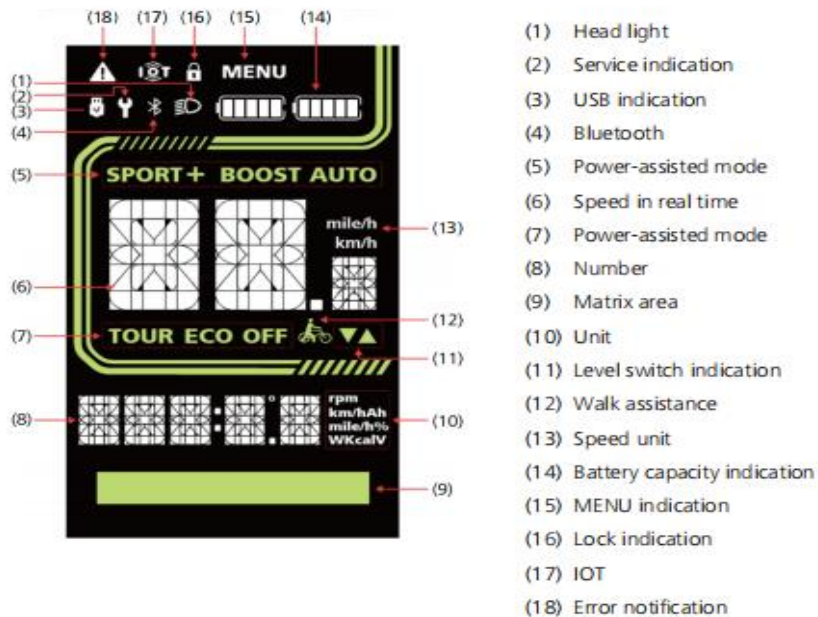
**6** Always check the angle of the brake lever after you change the stem angle. Change the angle of the grips if necessary. When the brake levers have an incorrect position it is more difficult to exert force, which may lead to reduced break performance.

**Tip** If you feel you cannot achieve a good bike fit by changing the angle of the stem you might need a different stem and/or handlebar fitted. Please contact your **BIMAS CARGO** dealer for advice.



**Tip** If you are unsure how to adjust the stem or need bike fitting advice, please contact to your **BIMAS CARGO** dealer.

#### 4.2.1 Configuration of the Bafang display

The following changeable basic settings are available on the Bafang display:






When HMI powers on, press  or  to select the power-assisted mode and change the output power of motor. There are 6 modes can be selected, but the default lowest mode is ECO and the default highest mode is BOOST (user-selected). After HMI powers on, the default mode is ECO, and OFF means no power assistance.



Press and hold  key to turn on the headlight and the brightness of backlight reduces.

Press and hold  key again to turn off the headlight and the brightness of backlight increases. (Note: The backlight brightness can be adjusted in 5 levels by the user.)

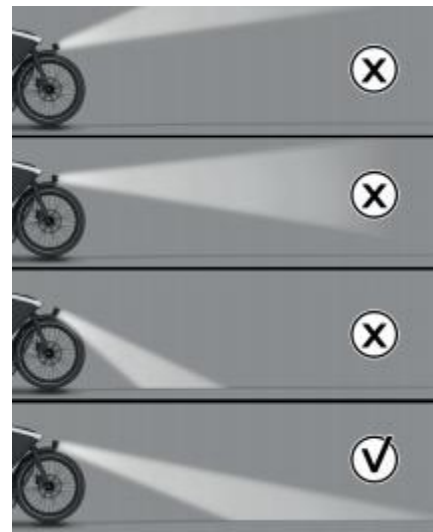



Image 13: Front light beam angle


- 6 Never set up the front light in such a way that the beam is pointing upward. This can cause upcoming traffic to be blinded after which they may lose control over their transportation device and cause an accident.









### Multifunction Selection

Press  key (<0.5S) to switch the different functions  
the position of multifunction indication displays TRIP (single trip distance, km) → ODO (total distance, km) → MAX (maximum speed, km/h) → AVG (average speed, km/h) → CAL (energy consumption, kcal) → TIME (riding time, min) → CAD (riding cadence, rpm) → RANGE (remaining distance, km) → POWER (motor power) → BAT (remaining power percentage) → cycle.



## Battery Capacity Indication&SETTINGS










Press  key (<0.5S), it can be switched to BAT, which shows the real-time battery capacity from 1% to 100%.

1. Press and hold the  and  key at the same time to enter "MENU".
2. Press the  or  key to switch "SET", "INFO" and "EXIT", and press  key to select.
3. To exit "MENU" to the riding interface, press and hold the  and  key at the same time to exit "MENU", or switch to "EXIT" and press  key.

Note: If there is no operation more than 20s, the screen will automatically exit to the riding interface.



### Reset TRIP1.










1. Press and hold the  or  key at the same time to enter "MENU", and press the  key to enter "SET".
2. Press  key to select "CLEAR".
3. Press the  or  key to select "N" or "Y" ("Y" - to clear; "N" -no operation).
4. Press the  key to save.
5. Press and hold the  or  key at the same time to exit back to the riding interface.

**Note: The riding time (TIME), average speed (AVG) and maximum speed (MAX) will be reset simultaneously when you reset TRIP.**












## Switch mileage unit

### 7.8.2 Switch mileage unit

1. Press and hold the  or  key at the same time to enter "MENU", and press the  key to enter "SET".
2. Press the  key to select the "Unit".
3. Press the  or  key to switch between "km" and "mile".
4. Press the  key to save.
5. Press and hold the  or  key at the same time to exit back to the riding interface.












## Set backlight brightness

1. Press and hold the  or  key at the same time to enter "MENU", and press the  key to enter "SET".
2. Press the  key to select the "B/L".
3. Press the  or  key to select the level of the light sensitivity as "05"/ "04"/ "03"/ "02"/ "01".
4. Press the  key to save.
5. Press and hold the  or  key at the same time to exit back to the riding interface.



### 7.8.5 Set automatic off time

1. Press and hold the  or  key at the same time to enter "MENU", and press the  key to enter "SET".
2. Press the  key to select "OFF".
3. Press the  or  key to select the automatic off time as "OFF"/ "10"/ "09"/ "08"/ "07"/ "06"/ "05"/ "04"/ "03"/ "02"/ "01".
4. Press the  key to save.
5. Press and hold the  or  key at the same time to exit back to the riding interface.



### 7.8.6 Set the maintenance tip

1. Press and hold the  or  key at the same time to enter "MENU", and press the  key to enter "SET".
2. Press the  key to select "MAINT".
3. Press the  or  key to select "N" or "Y" ("Y" - to set the maintenance tip; "N" -not to set the maintenance tip).
4. Press the  key to save.
5. Press and hold the  or  key at the same time to exit back to the riding interface.



# ERROR CODE DEFINITION

The ebike system's parts are automatically monitored in real time. If a part is abnormal, the corresponding error code is displayed on the HMI. The display flashes the code at a frequency of 1 Hz.

The troubleshooting methods in the list are listed in order according to the fault probability and the operability of the related parts. In practice, dealers can adjust the order based on the existing tools and spare parts. (For detailed disassembly steps, please refer to the dealer manual of the corresponding parts on the official website. <[www.bafang-e.com](http://www.bafang-e.com)>)

In order to protect the electric parts, before disassembling the parts, please switch off the system power first by pressing the control unit of HMI and then disconnect the power cable of the disassembled part. When



installing the parts, please fix the parts first, then connect the power cable of the parts, and finally switch on the system power by pressing the control unit of HMI.

Please contact Bafang after-sale service personnel <[service@bafang-e.com](mailto:service@bafang-e.com)> if the above troubleshooting fails to solve the problem or the error code is not in the above list.

**See Appendix A for the detailed error code list.**

## 5 Getting ready to bike

### 5.1 Gathering first experience

It is recommended to gather first experience with the e-bike away from roads with heavy traffic. Test the operating range of your e-bike under different conditions before planning longer and more challenging rides. Also try out the different assistance levels and take some time to understand the gear hub.

**When you first start using the e-bike it is recommended to start in low gear.**

The motor output depends on the amount of your pedalling power and the settings of the assistance level on the display. In general:

- Applying less pedaling power means lower assistance or support.
- Applying a lot of pedaling power means higher assistance or support.

As soon as you feel safe, you can participate in traffic with the e-bike as with any other bicycle.

- △ **When you hit an object with your bike it can cause damage to the front fork and the front wheel. Always be careful when your ride against and over kerbstones. Adjust your speed.**

- △ **Be careful when touching the disc brakes after heavy use. They can get very hot.**

- 2 **It is recommended that the rider uses a bicycle helmet.**

### 5.2 Influences on the operating range

The operating range depends on many factors, such as:

- Assistance level,
- Gear switching behavior,
- Bicycle tyres and tyre pressure,
- Age and condition of the e-bike battery,
- Route profile (inclines) and road or path conditions (road or path surface),
- Head wind and ambient temperature,
- Weight of the e-bike, rider and equipment/luggage.

For this reason, it is not possible to precisely predict the range before and during a trip. General rules:

- For **the same** motor output of the electrical drive unit: The less power or force you have to bring about to reach a certain speed (e.g. through optimal use of the gears), the less energy the electrical drive unit will consume, and the greater the range of your e-bike battery.
- The **higher** the assistance level under otherwise same conditions, the lower the range.

### 5.3 Safety check before every ride

To ensure your bike is safe to ride please check the following safety points before every ride (see image 14). These are quick checks to avoid mechanical malfunctions. Don't use the bike if your bike fails on any of the points and you are not able to solve the issue following the instructions in this manual. Contact your **BIMAS CARGO** dealer to discuss the problem.

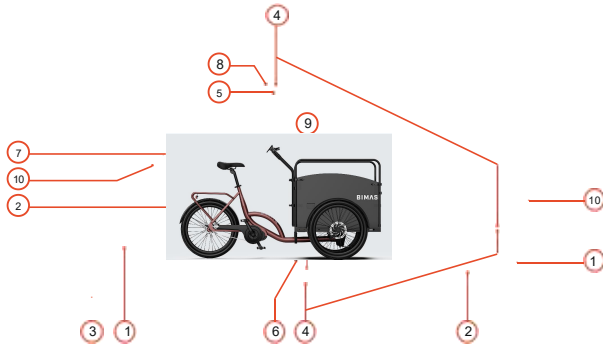


Image 14: Quick safety check

1. Check if the axle nuts and the drop out bolts aren't loose.
2. Check if the tyres aren't running against the fenders 2, the frame or the lock .
3. Check if the tyres are well inflated 3.

4. Check if the linkage between the handlebar 5 and the fork 4 is play free and that the linkage turns directly and smooth.
5. Check if the brakes 8 are working.
6. Check if the seat post 7 doesn't slip in the frame.
7. Check if the main frame connecting bolts 4 aren't loose.
8. Check if the front 10 and rear lights are working.

### 5.4 Tyres

Inflate your tyres to the correct pressure:

- Front tyre 2.4-3.5 bar
- Rear tyre 3-4 bar

**Tip** Ask your **BIMAS CARGO** dealer for a correct pump that fits the valves of your bike.

## 5.5 E-bike battery capacity check

There are two ways to check the charge conditions of the e-bike battery:

- On the battery
- On the display

### 2 When the e-bike battery is empty the e-bike can be ridden as a normal bicycle without assistance.

Checking the charge conditions on the e-bike battery is done as follows:

1. Press the on/off button on the battery.
2. Check the five green LEDs of the charge-control indicator on the battery.  
Each LED indicates approx. 20% capacity. When the battery is completely charged, all five LEDs light up.

### 2 If the capacity of the battery is below 5%, all LEDs of the charge-control indicator go out.

Checking the charge conditions of the e-bike battery on the **Bafang** display is done as follows:

1. Press the on/off button on the **Bafang** display
2. Check the battery charge-control indicator on the **Bafang display**

Each bar of the battery symbol is equivalent to a capacity of approx. 20% (see image 15).

### 2 If the display is removed from the holder 45, the last displayed battery charge level is saved.



The e-bike battery pack is fully charged.



The e-bike battery pack should be recharged.



The LEDs of the charge-control indicator on the battery pack extinguish. The capacity for assisting the drive has been used up, and assistance is gently switched off. The remaining capacity is made available for the lighting and the on-board computer. The charge-control indicator flashes. The capacity of the e-bike battery pack is enough for about two hours of lighting. This does not account for other consumers (e.g. charging external devices at the USB port when you have an **Bafang** display).

Image 15: The charge conditions

## Safety Belt

Closing the safety harness is done as follows:

1. Place both shoulder belt buckles onto the main buckle (see image 22). The magnets in the buckles ensure the parts lock at the correct position.
2. Pull the shoulder belts to check if the harness is securely closed.



Image 22: Closing the safety harness

Opening the safety harness is done as follows:

1. Slide the buckle slider counter clockwise. Both shoulder belt buckles are released from the main buckle (see image 23).



Image 23: Opening the safety harness

### Adjusting the length of the shoulder belts

If the harness can't be closed because the shoulder belts are too tight or the child can still move around too much the length of the shoulder belts need adjustment. Adjusting the length is done as follows:

- a. Extend the length of the shoulder belts by pushing the shoulder belt through the adjustment buckle (see image 24).
- b. Tighten the shoulder belts by pulling the shoulder belt through the adjustment buckle.



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Image 24: Extending the shoulder belts

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### Transporting luggage

Check if your luggage is secured properly, so it cannot move around during the ride.

**Tip** Use other strap material to secure your luggage.

### 5.6 Parking the e-bike or going for a ride

When you want to park the bike, put it on the kickstand. Putting the bike on the kickstand is done as follows:

1. Dismount the e-bike.
2. Take position on one side of the e-bike.

- △ **Never park your bike with the front pointing down a slope (even small ones). The kickstand could be overcome by the weight of the bike alone or a small push and cause your bike to fall over.**
- △ **Never pull the bike backwards to get it off the kickstand. This will make the kickstand move in the wrong direction which can damage the kickstand mechanism.**
- 2 **There is no need to switch off the e-bike before putting it on the kickstand.**
- 2 **Never leave the Bafang display or the battery on the e-bike when you park the e-bike to prevent theft of the display and/or the battery.**
- 2 **Park your bike in a socially acceptable manner. Don't block the road or sidewalk. Don't lock your bike to bikes that aren't yours.**

## 5.7 Turning the bike lights on and off

Your e-bike has a front and rear light. It is advised to have your lights turned on at all times, also during the daytime. The increased visibility to other traffic will increase your safety.

**6 Never cover the reflectors or the lights during cycling. It can cause poor visibility in traffic which may lead to collisions and/or accidents. Always contact your Urban Wheelz Cargo dealer when one of the reflectors is missing to arrange replacement. Always contact you BIMAS CARGO dealer when the lights stop working or do not turn on using the described method.**

**2 Your lights will not turn off when the battery is empty. They will continue to work for many hours after the electric assistance stops. You will have enough time to get home safely when the battery drains during a ride.**

In this paragraph we explain how to turn on the lights. This depends on the type of display on your bike.

Turning on the lights with the **Bafang** display is done as follows:

1. Press the on/off button on the display to turn on the e-bike

2. Press the light button to switch on the lights. The text '*Lights on*' will appear on the display for approximately 1 second. The lighting symbol is displayed on the display when the light is on.

**2 Switching the bike light on and off has no effect on the back lighting of the display.**

**2 Contact your BIMAS CARGO dealer in case the front and rear light don't turn on simultaneously or don't turn on at all.**

There are multiple ways to turn off the lights when you have an **Bafang** display. Turning off the lights with the **Bafang** display is done as follows:

- Press the on/off button on the display. The lighting symbol will disappear from the display.
- Turn off the e-bike
- Remove the display from the e-bike

**2 Switching the bike light on and off has no effect on the back lighting of the display.**

## 6 Changing settings during biking

There are a few settings that can be changed while driving, being: shifting the gears, changing the assistance level and switching the push assistance mode on and off. When standing still a number of display functions can be reset. In the following paragraphs we explain how you can change the above mentioned settings.

### 6.1 Shifting gears

Adjusting the gears settings is done as follows:

- a. Shifting to a lower gear (before riding away or riding uphill) by turning the grip shifters continuously variable clockwise (see image 28).
- 2 **Selecting a lower gear will put less stress on the drive train and you will gain speed more quickly.**
- 2 **When you have a grip shifter with grip indicator the image on the grip indicator 84 changes from a bicycle on a (more) flat surface into a bicycle on a hill (see image 28).**
    - b. Shifting to a higher gear (when riding fast or riding downhill) by turning the grip shifters continuousvariable counter clockwise (see image 28).
- 2 **When you have a grip shifter with grip indicator the image on the grip indicator changes from a bicycle on a hill into a bicycle on a (more) flat surface (see image 28).**

- 2 **Shifting gear while standing still is possible but only within a limited range. Resistance will increase until it isn't possible to rotate the lever any further. Don't apply unreasonable force to rotate the lever beyond this point. Once the bike starts rolling you can shift through the whole range of the gear hub again.**
- 2 **Independent of the type of gearing, it is recommended to briefly interrupt the pedalling while changing gears. This makes changing gears easier and reduces the wear of the drive train.**
- 2 **Selecting a lower gear riding away from a stop will reduce strain on the drive train components and increases the operating life of your bicycle. Selecting the correct gear will also affect the range of your battery positively.**

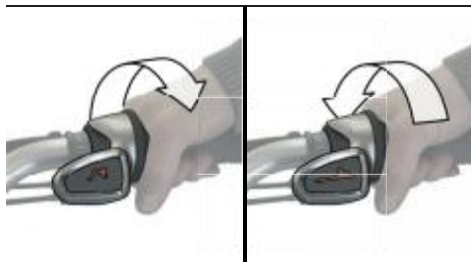


Image 28: Shifting to a lighter (lower) or heavier (higher) gear

## 7. After biking

### 7.1 Locks

Your e-bike is provided with two locks, one lock on the rear frame and one lock on the battery. These two locks share the same key.

Lock the bike, using the wheel lock and preferably an additional lock to secure the e-bike to a static object. This will reduce the chance of theft.

Note down the manufacturer and the number of the key.

### 2 In case of loss of the keys, please refer to your **BIMAS CARGO** dealer or [www.fiets sleutels.nl](http://www.fiets sleutels.nl)

Closing the ring lock is done as follows:

1. Put the e-bike on the kickstand. This will prevent damage to the spokes when closing the ring lock.
2. Rotate the key 20 to 30 degrees clockwise (not a full turn) and hold it in this position (see image 29).
3. Simultaneously push down the lever on the opposite side of the lock till the pin snaps into its end position. The key is released (see image 30).

If the pin hits a spoke, rotate the wheel slightly.

4. Take out the key from of the lock (and store it in a safe place).



Opening the ring lock is done as follows:

1. Put the e-bike on the kickstand.
2. Put the key in the ring lock.
3. Rotating the key counter clockwise. The pin is spring loaded and will return to its unlocked position automatically.

### 2 The key will remain in the lock when the lock is open. It cannot be taken out.

## 7.2 Charging the e-bike battery

Before you use the e-bike battery for the first time you need to check the battery before you can charge it fully. Checking is done as follows:

1. Press the on/off button to switch on the battery. At least one of the LEDs will light up.

**2 When no LED of the charge-control indicator lights up, the battery may be damaged. Contact your BIMAS CARGO dealer.**

There are two ways of charging the e-bike battery (see image 31):

- Charging while the battery is placed in the battery holder on the e-bike.
- Charging the battery after you removed it from the e-bike.

**6 Before each use, check the battery charger, cable and plug. If damage is detected, do not use the battery charger. Damaged battery chargers, cables and plugs increase the risk of an electric shock. Never open the battery charger yourself. Contact your BIMAS CARGO dealer when your battery charger is damaged.**

**6 Keep the battery charger clean. Contamination can lead to danger of an electric shock.**

**6 Always keep the charger away from rain or moisture. The penetration of water into a battery charger increases the risk of an electric shock.**

**6 A sticker in English is adhered to the bottom of the charger**

**This says: Use ONLY with Bafang lithium-ion batteries.**

**6 Do not expose the charger to rain or wet conditions. If water enters a charger there is risk of electric shock.**

**△ Use caution when touching the charger during the charging procedure. Wear protective gloves. Especially in high ambient temperatures, the charger can heat up considerably.**



**2 The e-bike battery is equipped with a temperature control indicator, which enables charging only within a temperature range between 0 °C and 40 °C. The battery can be recharged at any time without shortening the lifespan and interrupting the charging process does not damage the battery.**

**2 The electrical drive unit is deactivated during the charging procedure.**

**2 The e-bike battery must not be left unattended while charging.**

Charging the e-bike battery while placed in the battery holder is done as follows:

1. Press the on/off button to switch off the battery.
2. Clean the cover of the charge socket. Avoid soiling the charge socket and the contacts, e.g. by means of sand or soil.
3. Lift the cover of the charge socket.
4. Plug the charger plug into the charge socket on the bottom part of the battery holder (see image 32).
5. Plug the charger plug of the power cord into the charger socket of the charger.
6. Connect the mains cable of the battery charger to the mains supply. The charging procedure will start.
 

See below for more information on the charging status and what to do after charging.

arging the e-bike battery after it has been removed from the e-bike is done as follows:

1. Place down the battery on a clean surface. In particular, avoid soiling the charge socket and the contacts, e.g. by means of sand or soil.
2. Press the on/off button to switch off the battery.
3. Remove the battery from the holder (see paragraph 5.6).
4. Insert the charger plug of the battery charger into the socket (see image 33) on the battery.
5. Connect the mains cable of the battery charger to the mains supply. The charging procedure will start.

See below for more information on the charging status and what to do after charging.



### Charging state of the e-bike battery

The e-bike battery can be charged with or without the display.

When charging without the display, the charging procedure can be observed on the battery charge-control indicator. When charging with the display the bars on the display show the progress as well.

Thanks for riding BIMAS CARGO enjoy