

Urban Wheelz Cargo User manual



ΕN

28

Table of contents

				5.6.4 Switching the e-bike battery on and off	29
1	About this manual	2	5.7	Opening, closing and adjusting the safety harness	29
			5.8	Parking the e-bike or going for a ride	30
2	The Urban Wheelz Cargo	6			
			5.9	Turning the bike lights on and off	31
3	Safety	13	5.10	Power supply of external devices via USB	
				connection of the Bafang display	32
4	Before first use	15			
4.1	Bike fit	15	6	Changing settings during biking	3 3
	4.1.1 Saddle height adjustment	16	6.1	Shifting gears	33
	4.1.2 Handlebar/stem adjustment	17		6.1.1 Shift advice on the Bafang	34
4.2	Configuration of the display	19	6.2	display	34
	4.2.1 Configuration of the display	19	6.3	Switch push assistance mode on and off	35
	4.2.3 Setting up the lights	21		6.3.1 Switching the push assistance mode on and off	
				with an Bafang display	35
				6.3.2 Switching the push assistance mode on and off	
5	Getting ready to bike	22		with a Bafang display	35
5.1	Gathering first experience	2 2	6.4	Resetting display functions	35
5.2	Influences on the operating range	2 2		6.4.1 Resetting display functions with an Bafang display	35
5.3	Safety check before every ride	23			
5.4	Tyres	23	6.5	Resetting error code indications	36
5.5	E-bike battery capacity check	24			
5.6	Activating your e-bike	24	7	After biking	36
	5.6.1 Inserting, removing, securing and charging the		7.1	Locks	36
	display	25	7.2	Charging the e-bike battery	37
	5.6.2 Placing and removing the e-bike battery from				
	the battery cradle	26			

5.6.3 Switching the e-bike on and off

8	Clean	ing and maintenance	4 0
8.1	Clean	ing	40
8.2	Maint	enance	41
	8.2.1	Speed sensor check	41
	8.2.2	Punctures	42
	8.2.3	Maintenance check	42
	8.2.5	Disc brake adjustment	46
	8.2.6	Gear adjustment	47
	8.2.7	Lubrication	48
	8.2.8	Spares, accessories and safety-critical parts	48
			48
9	Trans	sport	49
10	Solut	ions to possible problems	50
11	Servi	ce plan	51
12	Dispo	sal	52
13	EC De	eclaration of Conformity	53
14	Appei	ndices	54

1 About this manual

First of all, thanks for choosing Urban wheelz!

Urban Wheelz 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. Enviolo, Schwalbe, 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 **Urban Wheelz 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

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

Copyright and disclaimer

The information in this document is subject to change without prior notification. All rights reserved. Nothing in this material may be simplified, modified or translated without prior written permission from **Urban Wheelz Cargo**, apart from insofar as permitted under the Copyright Act.

Nothing herein may be considered as an additional warranty. **Urban Wheelz Cargo** is not liable for technical or other errors in or omissions from this material.

Urban Wheelz Cargo is continuously improving its product range to bring you a better and safer riding experience. It might be possible that

some features in this manual are different from the bike as you have bought. Check the most recent information on www.urbanwheelzcargo.com

Warranty

Urban Wheelz 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 Urban Wheelz Cargo shows a material and/or manufacturing fault (with normal use as described in the manual), then Urban Wheelz Cargo 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 Urban Wheelz Cargo dealer.

The following warranty stipulations apply to your **Urban Wheelz 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 Urban Wheelz Cargo has determined that there is a construction or a raterial defect, will be repaired or reimbursed at Urban Wheelz Cargo's discretion.
- The factory warranty can only be claimed upon presentation of the original purchase invoice.

Your warranty will be voided or will not be applicable in case your **Urban Wheelz 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 Urban Wheelz 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 Urban Wheelz Cargo dealer.



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 Urban Wheelz Cargo dealer. In the event of complaints or questions about the warranty, your Urban Wheelz Cargo dealer will always be your first point of contact, since this is where the contract of sale was concluded. Urban Wheelz Cargo will then make a definitive assessment on whether the warranty applies. The dealer rust send the part in question, together with the purchase invoice, to Urban Wheelz 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 Urban Wheelz Cargo.

^{*} The warranty stipulations are applicable only by the first owner.

Liability

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

Disclaimer

Urban Wheelz 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 Urban Wheelz Cargo please contact your local Urban Wheelz Cargo dealer.

For more **Urban Wheelz Cargo** information, technical information and news items please check our website and our social media

Our website: www.urbanwheelzcargo.com

Our YouTube channel www.youtube.com/@urbanwheelzcargo6672

E-mail info@urbanwheelzcargo.com

2 The Urban Wheelz Cargo

The **Urban Wheelz 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 **Urban Wheelz 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.

() Check the local regulations to learn about possible restriction

with regard to transport of passengers on a bike.

- Check the local regulations on registering and using e-bikes on public roads.
- Por handicapped persons it is possible to mount a custom seat or bench inside the box. Please refer to your Urban Wheelz Cargo dealer for more information.

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

Important technical specification	s of the e-bike
Total length	21 7 cm
Height	Max. 120 cm (depending on handlebar height the e-bike can be less high)
Width box / handlebar	69 cm / 64 cm
Weight of the empty e-bike	59 kg
Max. combined weight	265 kg
Max. rider weight	125 kg

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



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.

①

The e-bike can be used within a temperature range between -5 $^{\circ}$ C and 40 $^{\circ}$ C.

The e-bike and its parts

The **Urban Wheelz 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 C010 display
- A grip shifter

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

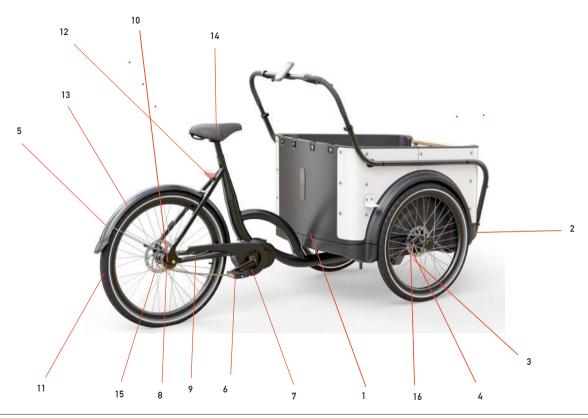


Image 1: General overview (side view)

lma	ge 1: General overview (side view)
1.	Mddp Box
2.	Front light
3.	Axle nut
4.	Front wheel
5.	Fender
6.	pedals
7	Pedal crank arms
8.	Sprockets
9.	Rear fork
10.	Pad
11.	Tire
12.	Rear light
13.	Rear fender
14.	Saddle
15.	Disc brake

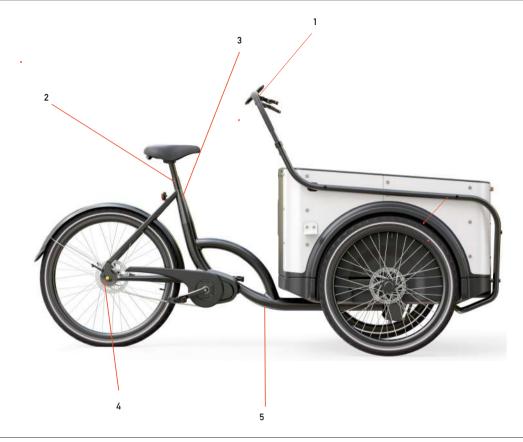


Image 2: General overview (side view)

lma	age 2: General overview (side view)
1.	Bafang display
2.	Seat post
3.	Seat post quick release
4.	Gear hub
5.	Frame number







80 gear barrel adjuster

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

3 Safety

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.



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 Urban Wheelz Cargo dealer in case the front fork of your bike was hit σ 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 dso 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 loose the guarantee and warranty claims on the bike you have purchased.
- Always use original Bafang batteries approved by your Urban Wheelz Cargo dealer. When you use other batteries, Urban Wheelz Cargo shall not assume any liability and warranty. The use fincorrect 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 Urban Wheelz 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 dectric 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 **Urban Wheelz Cargo** 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 **Urban Wheelz 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.

Please consult your **Urban Wheelz Cargo** dealer for a professional bike fit.

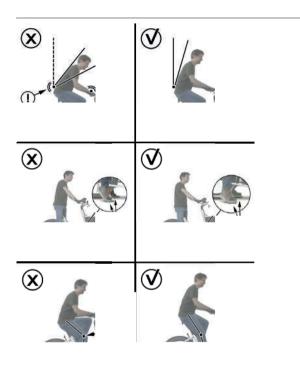
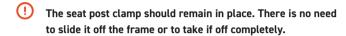


Image 5: Bike fit tips

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).



Put the saddle at the required height. Pay attention to the following:



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.



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.
- Close the seat post quick release completely by pushing it against the seat post clamp.

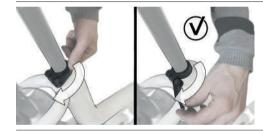


Image 6: Opening the seat post quick release

User manual 16

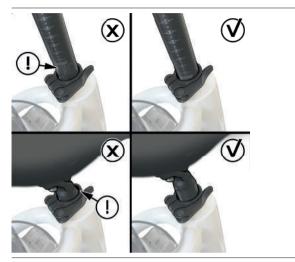


Image 7: Max and min insertion seat post



Image 8: Closing the seat post quick release

4.1.2 Handlebar/stemadjustment

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:



Use a 5mm Allen key to make the adjustments.

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



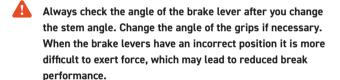
Always stay within the range indicated on the side of the stem while adjusting. When you adjust the stem to a position out of this range the stem might break during cycling. This may lead to loss of control of the bike.

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.

- 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.



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 UrbanWheelz dealer for advice.

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

User manual 18

4.2.1 Confi guration of the Bafang display

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



- Battery capacity indication
- Warn code indication
- Speed in real-time
- Speed bar
- 5 Power-assisted mode indication (4 Modes/ 6 Modes)
- O Unit switching of speed (km/h, mph)
- Multifunction indication (Clock. TRIP, ODO, MAX, AVG, Range, CAL, Cadence, Time)
- 8 Symbol indication (Headlight, USB, Service, Bluetooth)

When HMI powers on, briefly press or (<0.5S) to select the power-assisted mode and change the output power of motor. 4 Modes or 6 Modes can be selected, but the default selection is 6 Modes of which the lowest mode is ECO and the highest mode is BOOST. The default mode is ECO after HMI powering on, mode OFF means no power assistance.



(6 Modes)



The headlight can be switched on manually or automatically. When the HMI powers on, the auto light function works.

Press and hold (>2S) to turn on the headlight and reduce the brightness of backlight.

Press and hold (>2S) again to turn off the headlight and increase the brightness of backlight.

(Note: The headlight can be automatically switched according to the ambient light, but the auto light function fails once user manually switches the headlight on/off.

After restarting the HMI, the function works again.)





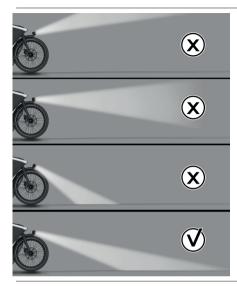


Image 13: Front light beam angle



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 loose control over their transportation device and cause an accident.

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.



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 **Urban Wheelz Cargo** dealer to discuss the problem.

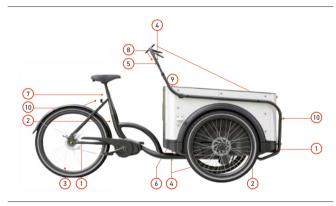


Image 14: Quick safety check

- 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

Ask your **Urban Wheelz 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
- 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.

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
- 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).

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 apacity 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

5.6 Activating your e-bike

Your e-bike can only be activated (switched on and off) when the following requirements are met:

- The display is properly inserted in the holder (in case of an Bafang display)
- A charged e-bike battery is inserted into the battery cradle

User manual 24

- The speed sensor is connected properly
- There is no specific order in mounting the display and the battery.

In the following paragraphs we will explain you how to:

- Insert, remove, secure and charge the Bafang display
- Place and remove the e-bike battery from the battery cradle
- · Switch the e-bike on and off
- In case the speed sensor is not connected properly, the text 'Error 503' will appear on the screen of your display. Cycling remains possible but there will be no pedalling assistance as the electrical drive unit will be turned off automatically while functioning in this error mode.

5.6.1 Inserting, removing, securing and charging the Bafang display

Inserting the Bafang display is done as follows:

 Slide the display from the front into the holder mounted on the handlebar.

Removing the Bafang display from your bike is done as follows:

1. Press and hold the locking latch and slide the display toward the front out of the holder (see image 16).

When the display is removed the last indicated assistance level is stored; the motor-output indicator remains empty and the last displayed battery charge level is saved.





Image 16: Removing the display

Securing the Bafang display against removal is done as

follows: (!)

You need an 3mm Allen key and a M3 screw

(8mm long)

- 1. Unscrew the display holder bolts.
- 2. Remove the holder from the handlebar by taking the top and bottom part of the display holder apart.
- 3. Slide the display into the top part of display holder.
- Screw the locking screw into the thread provided in the top part of display holder.
- 5. Mount the holder back onto the handlebar.

There are two ways to supply energy to the display:

Energy supply by the battery of the e-bike:
 If the display is in the holder, a sufficiently charged battery

- is inserted in the e-bike and the e-bike is turned on, then the onboard computer is powered by the battery of the e-bike.
- 2. Energy supply by the internal battery of the display: If the display is removed from the holder, the energy is supplied via an internal battery.
- If the internal battery is weak when the display is switched on, 'Attach to bike' will appear in text indication for 3 s.

 The display will then turn off again.

Charging the internal battery of the **Bafang** display is done as follows:

- 1. Insert the e-bike battery in the battery cradle
- 2. Put the display in the holder.
- Press the on/off button of the e-bike battery to switch on the ebike battery. The internal battery of the display will be charged now.

5.6.2 Placing and removing the e-bike battery from the battery cradle

Inserting the e-bike battery is done as follows:

 Press the on/off button of the e-bike battery to switch off the e-bike battery.



Sparks may be generated between the terminals of your battery and ones of the holder when you don't switch off the battery. These sparks may lead to injuries.

- Check if the upper and lower battery holder are clean (no dirt or debris).
- 3. Place the key into the battery lock.
- The battery lock uses the same key as the ring lock.
 - 4. Unlock the battery lock by turning the key counter clockwise.
 - Place the battery with the contacts on the lower holder on the e-bike.
 - **6.** Tilt the battery into the top part of the battery holder until it engages. The battery is now locked.
- You will hear a click when the battery is inserted correctly.
 - Check if the battery is tightly seated. There should be very little play.
 - 8. Remove the key from the battery lock.
- Removing the key prevent the e-bike battery from being removed by unauthorised persons when the e-bike is parked.

5. Pull the battery out of the bottom part of the battery holder

Mind that the key of the battery lock is also used to unlock the bike lock. We advise you to never leave it behind in the battery lock to prevent theft of the e-bike.



Always take your battery out of the frame when you are parking it for longer periods or in high risk areas. It is an expensive part to replace and there is always a chance it will be stolen.

5.6.3 Switching the e-bike on and off

There are multiple ways to switch on the e-bike:

- When the display is not yet inserted into the holder (in case of an Bafang display):
 - a. Switch on the display and place it into the holder. The e-bike will automatically switch on.
 - b. Insert the display into the holder. Switch on the display.

- 2. When the display is already inserted in the holder:
 - a. Switch on the e-bike battery.
 - b. Switch on the display.
- ! This is under the condition that a charged e-bike battery is inserted in the battery cradle and the speed sensor is properly connected.
- When the e-bike is switched on correctly the text 'm/h' or 'km/h' will appear on the screen of both the Bafang and Purion display.

There are multiple ways to switch off the e-bike off:

- Switch off the display.
- Switch off the e-bike battery.
- Remove the display out of its holder (in case of an Bafang display).
- If no power is drawn from the e-bike for about 10 minutes (e.g. because the e-bike is not moving) and no button is pressed on the display for 10 minutes, the e-bike and therefore also the e-bike battery will shut down automatically to save energy.
- The e-bike can also be ridden as a normal bicycle without





Image 21: Switching the display on and off

5.6.4 Switching the e-bike battery on and off

Switching on the e-bike battery is done as follows:

Press the on/off button of the battery.
 The LEDs of indicator light up and at the same time indicate the charge condition.

Switching off the battery is done as follows:

- Press the on/off button of the battery.
 The LEDs of indicator go out. This also switches off the e-bike.
- If the capacity of the e-bike battery is below 5%, no LED on the charge-control indicator lights up. It is only visible on the display, if the e-bike is switched on.



If no power is drawn from the e-bike drive for about 10 minutes (e.g. because the e-bike is not moving) and no button is pressed on the display or the control unit of the e-bike, the e-bike and therefore also the e-bike battery will shut down automatically to save energy.

5.7 Opening, closing and adjusting the safety harness

A three point harness is standard equipment on the e-bike. The Fidlock buckle closes the harness. Two pairs of harnesses are mounted, to be used by children seated on the bench. The length of the belts should be adjusted to the size of the passengers. The belts should not be loose nor too tight. A grown up should be able to put their hand between the belt and the chest of the child. If an adult is seated on the bench they can hold the protection tube to secure themselves.



Always secure young passengers with the safety belts before a ride. When young passengers can move freely in the foam box they can be launched when you have to brake. This can potentially be fatal.



Never use the bench seats for children who are not able to sit independently. The bench does not offer sufficient head support which may lead to neck or head injury. Tip To provide easy access to the box for (little) passengers, a cut-out has been made in the side of the foam box to create a step.

This can be used to climb in and out of the foam box.

Closing the safety harness is done as follows:

- 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.
- Pull the shoulder belts to check if the harness is securely closed.

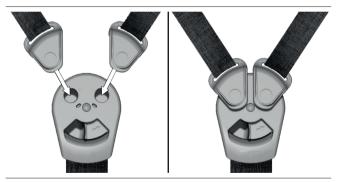


Image 22: Closing the safety harness

Opening the safety harness is done as follows:

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

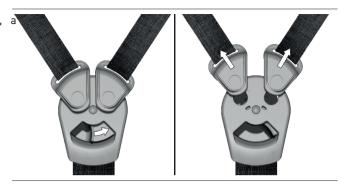


Image 23: Opening the safety harness

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:

- 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.



Image 24: Extending the shoulder belts

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.

5.8 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.

- ! There is no need to switch off the e-bike before putting it on the kickstand.
- 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.
- 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.

If the kickstand doesn't turn to the correct position, there is a mechanical problem. Contact your Urban Wheelz Cargo dealer to have it solved.

5.9 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.



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 your Urban Wheelz Cargo dealer when the lights stop working or do not turn on using the described method.

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

- 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.
- Switching the bike light on and off has no effect on the back lighting of the display.
- (!) Contact your Urban Wheelz 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

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

Contact your Urban Wheelz Cargo dealer in case the front and rear light don't turn on simultaneously or don't turn on at all.

5.10 Power supply of external devices via USB connection of the Bafang display

With the USB connection on the **Bafang** it is possible to operate and charge most devices whose power supply is possible via USB (e.g. various mobile phones).

• The USB connection on the Bafang display is only for service purposes.

Supplying your external device with power via the display is done as follows:

- In case you have an Bafang display: Place the display in the display holder.
- 2. Place a charged battery in the battery holder. See paragraph 5.6.2 for instructions.
- 3. Open the USB port protective cap.
- Connect the USB connection of the external device to the USB port. Use the USB charging cable Micro A – Micro B (available from your Urban Wheelz Cargo e-bike dealer).

As soon as you connect the external device to your display, the text 'USB connected' will appear on the screen of the display.

To make the text '*USB connected'* disappear from the screen, press the i button. To show the text again, press the i button multiple times until the text appears again.

Close the USB port protective cap after disconnecting the external device.



A USB connection is not a waterproof plug-in connection. Moisture can cause internal damage to the display. Always completely seal the USB connection with the protective cap 74. Never connect an external device when you ride in the rain.

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 continuouslyvariable clockwise (see image 28).
- Selecting a lower gear will put less stress on the drive train and you will gain speed more quickly.
- 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).
 - Shifting to a higher gear (when riding fast or riding downhill) by turning the grip shifters continuous variable counter clockwise (see image 28).
- 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).

- 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.
- 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.
- 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.

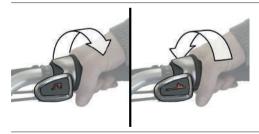


Image 28: Shifting to a lighter (lower) or heavier (higher) gear

User manual 33

Battery Capacity Indication

HMI displays the real-time battery capacity from 100% to 0%. When the battery capacity is less than 5%, the indicatior will blinks at frequency of 1 Hz to alert to recharge.



Bluetooth Function

This HMI is equipped with OTA function, which can update firmware of HMI, controller, sensor and battery through the Bluetooth.

This HMI can be connected to the Bafang Go APP through Bluetooth. The customer also can develop their own app based on the SDK provided by BAFANG.

The data that can be sent to the APP are as follows:

7.6.8 USB Charge Function

When the HMI is off, insert the USB cable to the charge port on the HMI, and then turn on HMI to start charging. The maximum charge voltage is 5V and the maximum charge current is 1A.

	100%
	28%
	™ 24.6 ₩
1	-
	ECO



No.	Function
1	Speed
2	Power-assisted mode
3	Battery capacity
4	Current
5	Headlight state
6	TRIP
7	ODO
8	Range

No.	Function
9	Heartbeat (custo- mized)
10	Calories
11	Sensor signal
12	Battery info.
13	System info.
14	Error code





Service Tip

When the total mileage exceeds 5000 km, the symbol will be displayed on the HMI, reminding users to go to the after-sales outlet for maintenance. The function is off by default.



Riding Parameters Interface

Double press the button (<0.5S) to enter the interface of riding parameters. Press the button (<0.5S) to switch the pages. Dubble press the button (<0.5S) again to return the main interface.







"Quick settings" Interface

When you in the main interface, press and hold the and button (at the same time) to enter the "Quick settings" interface.

When you in the "Quick settings" interface, press and hold the and button (at the same time) to exit back to the main interface.

"Brightness" Set the brightness of backlight

Briefly press the or button (<0.5S) to select "Brightness", and briefly press the to enter the item. Then select the desired percentage from 10% to 100% by pressing the or button, and briefly press the button (<0.5S) to save and exit back to the "Quick settings" interface.





"Auto off" Set automatic off time

Briefly press the or button (<0.5S) to select "Auto off", and briefly press the to enter the item. Then select the automatic off time as "OFF"/"1"/"2"/"3"/"4"/"5"/"6"/"7"/"8"/"9" with the or button.

Once you have chosen your desired selection, press the button (<0.5S) to save and exit back to the "Quick settings" interface

Note: "OFF" means the "Auto off" function is off.



"Clock setting" Set the clock

Briefly press the or button (<0.5S) to enter the "Time format" setting, and briefly press the button to select "12h" or "24h".

Briefly press the or button (<0.5S) to select the "Clock setting" item, briefly press the button to enter the item. Then set the accurate time by pressing the or button, and briefly press the button (<0.5S) to save and exit back to the "Quick settings" interface.







"Modes" Set the power-assisted modes

Briefly press the or button (<0.5S) to enter the "Modes" setting, and briefly press the button to select "4 Modes" or "6 Modes".



"Trip reset" Reset the single-trip

Briefly press the or button (<0.5S) to enter the "Trip reset" setting, and briefly press the button to select "YES" or "NO".



"Display settings" Interface

When you in the "Quick settings" interface, briefly press the or button (<0.5S) to select the "OTHERS" and enter the "Display settings" interface.

"Trip reset" Reset the single-trip

Briefly press the or button (<0.5S) to select the "Trip reset" item, and briefly press the button to enter the item. Then select "YES","NO" ("YES"- to clear, "NO"-no operation) with the or button and briefly press the button (<0.5S) to save and exit back to the "Display settings" interface.

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





"Unit" Select the mileage unit

Briefly press the or button (<0.5S) to select the "Unit" item, and briefly press the button to enter the item. Then select "km"/"mile" with the or button and briefly press the button (<0.5S) to save and exit back to the "Display settings" interface.



"Reset Password" Reset the boot password

Briefly press the or button (<0.5S) to select the "Reset Password" item, and briefly press the button to enter the item. Enter the 4-digit old password with the button, then enter the new password and confirm the new password. After setting, select the "YES" by briefly pressing the button (<0.5S) to save and exit back to the "Display settings" interface.

"Service tip" Set the service tip

Briefly press the or button (<0.5S) to select the "Service tip" item, and briefly press the button to enter the item. Then select "ON"/"OFF" with the or button and briefly press the button (<0.5S) to save and exit back to the "Display settings" interface.

Note: The default setting is OFF. If the ODO is more than 5000 km, the "Service tip" indication will flash.





"AL Sensitivity" Set light sensitivity

Briefly press the or button (<0.5S) to select the "AL sensitivity" item, and briefly press the button to enter the item. Then select the level of the light sensitivity as "OFF"/"1"/"2"/"3"/"4"/"5" with the or button and briefly press the button (<0.5S) to save and exit back to the "Display settings" interface.

Note: "OFF" means the light sensor is off. Level 1 is the weakest sensitivity and level 5 is the strongest sensitivity.



"Boot Password" Set the boot password

Briefly press the or button (<0.5S) to select the "Boot Password" item, and briefly press the button to enter the item. Then select the 4-digit number as "0"/"1"/"2"/"3"/"4"/"5"/"6"/"7"/"8"/"9"with the button. After setting, select the "YES" by briefly pressing the button (<0.5S) to save and exit back to the "Display settings" interface.

After back to the "Display settings" interface, briefly select "ON"/"OFF" with the or button and briefly press the button (<0.5S) to save and exit back to the "Display settings" interface.

Note: The default password is 0000, and the default setting is OFF.









"Information" Interface

Note: All information here cannot be changed, it is to be viewed only.

"Wheel size"

After entering the "Information" page, you can see "Wheel size --inch" directly.

"Speed limit"

After entering the "Information" page, you can see "Speed limit --km/h" directly.

"Battery info"

Briefly press the or button (<0.5S) to select "Battery info", and briefly press the button to enter, then briefly press the or button to view the battery information.

Note: If the battery doesn't have communication function, you won't see any data from battery.



"Controller info"

Briefly press the or button (<0.5S) to select "Controller info", and briefly press the button to view the hardware version and software version.

Press the button (<0.5S) again to exit back to the "Information" interface.





"HMI info"

Briefly press the or button (<0.5S) to select "HMI info", and briefly press the button to view the hardware version and software version.

Press the button (<0.5S) again to exit back to the "Information" interface.



"Sensor info"

Briefly press the or button (<0.5S) to select "Sensor info", and briefly press the button to view the hardware version and



software version

Press the button (<0.5S) again to exit back to the "Information" interface.

NOTE: If your e-bike doesn't have torque sensor, "--" will be displayed.





"Warn code"

Briefly press the or button (<0.5S) to select "Warn code", and briefly press the (b) button to view the message of warn code

Press the (b) button (<0.5S) again to exit back to the "Information" interface







"Error code"

Briefly press the or button (<0.5S) to select "Error code", and briefly press the button to view the message of error code.

Press the button (<0.5S) again to exit back to the "Information" interface.







"Language" Interface

When you in the "Language" interface, briefly press the or button (<0.5S) to select the desired language as "English"/"Deutsch"/"Nederlands"/"Français"/"Italiano"/"Čeština" and briefly press the button to save the selection.



"Theme" Interface

When you in the "Theme" interface, briefly press the or button (<0.5S) to select the desired theme as "Sporty"/"Technology-"/"Fashion" and briefly press the button to save the selection









(Sporty)

(Technology)

(Fashion)

Changing the assistance level with the *Purion* display is done as follows:

- a. Shifting to a higher assistance level by pressing the + button less than 1 second until the desired assistance level appears on the indicator.
- Shifting to a lower assistance level by pressing the button less than 1 second until the desired assistance level appears on the indicator.
- When the display is set to TRIP, TOTAL or RANGE the selected assistance will only be shown for about 1 second on the display when changing the assistance level.

6.3 Switch push assistance mode on and off

The push assistance feature makes it easier to push the e-bike. The speed in this function depends on the set gear and cannot exceed 6 km/h (max.). The lower the set gear, the lower the speed in the push-assistance function (at full output). How the push assistance is switched on or off depends on the type of display on your bike.



The cranks with the pedals will rotate when the push assistance is switched on. Make sure your legs are a sufficient distance away from the cranks with the pedals. There is risk of injury.



Never use the push-assistance function when the bike is locked. This may lead to damage of your spokes.

6.3.1 Switching the push assistance mode on and off with an Bafang display

Switching on the push assistance when you have an *Bafang* display is done as follows:

- Press and hold the walk button on the control unit. The electrical drive unit is switched on.
- The push assistance cannot be activated in the OFF

There are multiple situations in which the push assistance of the *Bafang* display switches off:

- 1. When you release the walk button.
- 2. In case the wheels of the e-bike are blocked (e.g. by applying the brakes or hitting an obstacle).
- 3. When the speed of your e-bike exceeds 6 km/h.

6.3.2 Switching the push assistance mode on and off with a Bafang

display

Switching on the push assistance when you have an *Bafang* display is done as follows:

- 1. Press the walk button on the display for less than 1 second. The push assistance is activated.
- 2. Press and hold the + button within 3 seconds after activation. The electrical drive unit is switched on.
- The push assistance cannot be activated in the OFF assistance level.

There are multiple situations in which the push assistance of the *Purion* display switches off:

- 1. When you release the + the button.
- 2. In case the wheels of the e-bike are blocked (e.g. by applying the brakes or hitting an obstacle).
- 3. When the speed of your e-bike exceeds 6 km/h.

6.4 Resetting display functions

In this paragraph we explain how to reset a number of display functions depending on the type of display on your bike.

6.4.1 Resetting display functions with an Bafang display

With the Bafang display the following values can be reset: trip distance, trip time, average speed, maximum speed and range.

Resetting the values of trip distance, trip time and average speed to zero on a is done as follows:

- Press i button 78 on the display or i button 94 on the control unit repeatedly until one of the functions 'trip time', 'trip distance' or 'avq.speed' is displayed.
- Press and hold the reset button 91 until the indication is set to zero.

This also resets the values of the other two functions.

Resetting the value of maximum speed to zero is done as follows:

- Press i button 78 on the display or i button 94 on the control unit repeatedly until the function 'max. speed' is displayed.
- Press and hold the reset button 91 until the indication is set to zero.

Resetting the value of range to the factory setting is done as follows:

- Press i button 78 on the display or i button 94 on the control unit repeatedly until the function 'range' is displayed.
- 2. Press and hold the reset button **91** until the indication is set to the value of the factory setting.

Resetting the range of the battery to zero is done as follows:

- Press the button 100 between 1 and 2.5 seconds until the desired assistance level RANGE appears on the indicator 105.
- Press and hold the button 100 and + button 101 simultaneously over 2.5 seconds. The text 'reset' will initially appear. The range of the battery is set to zero.

6.5 Resetting error code indications

The components of the e-bike are continuously and automatically monitored. If an error is detected, the corresponding error code will appear on the text indicator **81** of the *Bafang* display and **110** of the *Purion* display.

Depending on the type of error, the electrical drive unit may automatically shut down. In this case cycling is possible, but there will be no pedalling assistance while functioning in this error mode. Take your e-bike to your Urban Wheelz Cargo dealer to have it repaired as soon as possible.

Resetting error code indications on the display is done as follows:

 Press any button on the Bafang display 42 or the Purion display 118 to return to the standard indication.
 Depending on the error code the indication will appear on the display again after the e-bike has been switched off and on.

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.

Tip Note down the manufacturer and the number of the key.

! In case of loss of the keys, please refer to your Urban Wheelz Cargo dealer or www.fietssleutels.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).
 - Tip 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).



Image 29: Rotate the key 20 to 30 degrees clockwise



Image 30: Push down the lever

Opening the ring lock is done as follows:

- 1. Put the e-bike on the kickstand.
- 2. Put the key in the ring lock.
- Rotating the key counter clockwise. The pin is spring loaded and will return to its unlocked position automatically.
- 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.
- (!) When no LED of the charge-control indicator lights up, the battery may be damaged. Contact your Urban Wheelz 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.



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 Urban Wheelz Cargo dealer when your battery charger is damaged.



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



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



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

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



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.



Image 31: Charging a battery

- 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.
- The electrical drive unit is deactivated during the charging procedure.
- 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.
- 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).
- 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.



Image 32: Plugging charger plug in charge socket on the bottom part of the battery holder

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

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



image 33)

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.



The Bafang display can be removed during the charging procedure or fi tted after the charging procedure has started.

Each continuously lit LED on the charge-control indicator is equivalent to a charge capacity of approx. 20 %. A flashingLED indicates the charging of the next 20 %. Once the e-bike battery is fully charged, the LEDs extinguish immediately and the display (in case mounted) is switched off. The charging procedure is terminated.

Afterchar ging

The procedure after the charging procedure is terminated is as follows:

- 1. Disconnect the charger from the main power supply.
- 2. Disconnect the battery from the charger. The battery automatically switches off.
- 3. If you have charged the battery while placed in the battery holder on the bike, carefully close the charge socket with the cover so no dirt or water can get into the charge socket.

- Regularly recharge the battery of the Bafang display.
- Check the charge condition after 6 months. When only one LED of the charge-control indicator lights up, recharge the e-bike battery again to approx. 60 %.
- Don't connect the e-bike battery permanently to the charger.
- Don't store the e-bike battery on the bike.
- Store the e-bike battery in a dry, well-ventilated location.
 Protect the battery against moisture and water. Under unfavorable weather conditions, it is recommended e.g. to remove the battery from the e-bike and store it in an enclosed location until being used again.
- When the e-bike battery is stored discharged (empty) for longer periods, it can become damaged despite the low selfdischarging feature and the battery capacity may be strongly reduced.

Temperature

The e-bike battery can be stored at temperatures between $-10\,^{\circ}\text{C}$ and $+60\,^{\circ}\text{C}$. Take care that the maximal storage temperature is not exceeded. As an example, do not leave the battery in a vehicle in summer and store it out of direct sunlight. For a long battery life storing the e-bike battery at a room temperature of approx. 20 $^{\circ}\text{C}$ is of advantage.

8 Cleaning and maintenance

Be aware that the display can activate itself when the e-bike is pushed backwards. When you press the on/off button on the activated display the electrical drive unit could switch on. Remove the battery from the e-bike before you begin work (e.g. inspection, repair, assembly, maintenance, work on the chain, etc.) on the e-bike, transport it by car or plane, or store it. Unintentional activation of the electrical drive unit poses a risk of injury.

8.1 Cleaning

- Keep all components of your e-bike clean, especially the battery contacts and corresponding holder contacts. Clean them carefully with a soft, damp cloth.
 - Tip It is advised to regularly clean the lenses of your lights, it will improve the lighting performance.
- All components including the electrical drive unit may not be immersed in water or cleaned with a high-pressure cleaner.
- The foam box used on the Family model is made from a sturdy foam material called EPP (Expanded Polypropylene). EPP insulates very well and has good wear and tear resistance. Regular bicycle maintenance or generic household cleaning products will not affect the material. Don't use solvents.
- Never submerge the e-bike battery in water.

 Clean your bike in shorter intervals when you cycle on roads have been prepared with winter road salt. The road salt may cause damage to parts of your bike.



Never submerge the battery in water or clean using a jet of water. Danger of short-circuiting which may pose a fire hazard.



The gear hub and grip shifter are sealed and well protected from the external environment. However, never use water under pressure (such as pressure washers or water jets) when you clean these parts to prevent malfunctions due to water penetration.



Never use aggressive cleaners on any of the parts of your e-bike. This may cause permanent damage to the bike.

8.2 Maintenance

8.2.1 Speed sensor check

In order for the speed sensor to function:

- The clearance between the speed sensor and its speed sensor magnet needs to be at least 5 mm, yet no more than 17 mm after a turn of the wheel (see image 35).
 See later in this paragraph for information on how to adjust the clearance if necessary.
- 2. The speed sensor needs to be connected properly.



Contact your Urban Wheelz Cargo dealer in case the speed sensor not connected properly.



Image 35: Distance between the speed sensor and the speed sensor magnet

The speed indication on your display will fail in case the speed sensor doesn't function properly. The text 'error 503' will appear on the screen of your display.



Cycling remains possible when the speed sensor doesn't function, but there will be no pedalling assistance as the electrical drive unit will be turned off automatically while functioning in this error mode.

Adjusting the clearance between the speed sensor magnet and the speed sensor is done as follows:

 Loosen the screw of the speed sensor magnet by turning it counter clockwise.

41

User manual User manual

- 2. Position the speed sensor magnet in such a manner that it runs past the mark of the speed sensor at the correct clearance (min. 5 mm, max. 17 mm, see image 35).
- Fasten the speed sensor magnet to the spoke by turning the screw clockwise.
- In case the speed is still not being indicated in the speed indication, please contact your Urban Wheelz Cargo dealer.

822 Punctures

8.2.2.1 Preventing punctures

There are ways to prevent punctures beside mounting puncture resistant tyres. Please check the following check-up and riding tips.

Check-ups

- Check the surface of your tyres from time to time, running your hand or fingers over the surface. This way you might find sharp objects logged in the outer surface before they puncture the inner tube of your tyre. Be careful doing this with your bare hands.
- Check the wear of your tyres. The tread of your tyres will become thinner over the distance, making it easier to be punctured.
- Keep your tyres at the correct tyre pressures. Low tyre pressures will increase the chance of picking up dirt and

debris. Low tyre pressures can also cause pinch punctures where the inner tube is damaged by being pinched between rim and tyre over bumps. For correct tyre pressures please check paragraph 5.4.

Riding tips

- · Avoid riding through potholes.
- Avoid riding into train/tram tracks. The tyres are wide enough not to be caught by the track but your steering will be affected.
- Avoid train/tram track in the wet. Don't cross them at too parallel an angle. The track can be very slippery.
- Avoid hitting curbstones at too high a speed. It may cause damage to your bike.
- The side of the road is where dirt accumulates. Avoid riding there if there is room in traffic and the situation allows.
- Have an eye on the road and drive around debris and dirt sitting on the road. Having a safe road position is more important though, don't change direction without checking the traffic around you.

In case of a puncture don't continue riding. There is a big chance you will damage the tyre, the wheel or even the frame. Dismount the bike and walk home.



Cycling with a punctured tyre can cause seriously reduced road holding which may lead to loss of control of the bike. Never continue cycling in case of a punctured tyre.

At home you can:

- Fix the puncture yourself in case you have *good access* to the puncture: use a repair kit and follow the instructions that come with the repair kit.
- Fix the puncture yourself in case you don't have good access
 to puncture: remove the wheel from the frame and fix the
 puncture. Check the next paragraph for more information on
 how to remove the front of rear wheel.
- You need to be a confident and skilled home mechanic to remove a rear wheel from the frame.
 - Contact a professional bike mechanic (preferably an Urban Wheelz Cargo dealer) who can fix the puncture for you.

8.2.3 Maintenance check

When you have your e-bike maintained/serviced by your **Urban**Wheelz Cargo dealer all necessary maintenance will be performed by your dealer. But in between the maintenance you can perform the following checks yourself.

Checking a tyre: recognized by checking the tread pattern. If the pattern has disappeared in the middle of the tread (difference between lowered and raised material cannot be distinguished) the tyre is worn and should be replaced (see image 36). If you notice long or deep tears the tyre should be replaced even if the tread hasn't worn out yet. Contact your Urban Wheelz Cargo dealer for the correct spare part.



Image 36: Tyre wear

Check tyre pressure: Riding a too low tyre pressure damages
the tyre. In the sidewalls tears will appear that cannot be
repaired. Sometimes a few hundred km's at too low pressure
is enough to ruin the tyres. The correct tyre pressure is as
follows:

a. Front wheel: 2.4-3.5 bar

b. Rear wheel: 3-4 bar

rip sk your Urban Wheelz Cargo dealer for a correct pump that fits the valves of your bike.

• Wheel trueness: If a wheel is out of true it will wobble while spinning. You can check this by putting the bike on its stand and giving the wheels a spin (see image 37). If the wheel is spinning look at the rim and tyre separately. An incorrectly fitted tyre can also cause a wobble. A new wheel needs to settle and will require its trueness being checked more often. Contact your Urban Wheelz Cargo dealer in case your wheel wobbles to have your wheel fixed.



- Check the rim for damage. Damage can take the form of dents and cracks in the rim surfaces and around the spoke holes.
 Always check the rim after hitting a solid object or pothole to speed or after you rode with a flat tyre. A damaged rimand damage the tyre and could make the wheel go out of true.
 Contact your Urban Wheelz Cargo dealer in case you detect rim damage.
- Check play on the hub axle. Hub bearings can develop play due to wear. Excessive hub play can affect brake performance, it can cause other mechanical problems as well as affect the handling of the bike. Contact your Urban Wheelz Cargo daler in case you detect play on the hub axle.

 Check play on the steering linkage: the steering input of the handlebar needs to be transferred to the front wheel. This action is provided for by the steering linkage.



Image 40: Checking the lock rubbers

Contact your Urban Wheelz Cargo dealer in the following cases:

- If the chain audibly scratches the chain case. A chain will wear over time causing it to increase in length. Have your dealer adjust the chain tension.
- If you feel there is excessive resistance caused by the chain case.
- If the front wheel does not change direction when steering input (handlebar rotation) is given stop riding immediately and contact your Urban Wheelz Cargo dealer.
- If you detect play in the pedals or cranks, for instance if you can feel them move around during a pedal stroke.
- If you notice a significantly reduced operating period after charging. The battery life can be prolonged when being

- properly maintained and especially when being operated and stored at the right temperatures. With increasing age, however, the battery capacity will diminish, even when properly maintained. A significantly reduced operating period indicates that the battery is worn out and must be replaced. You can replace the battery yourself.
- If you see a wobble in the wheel. First make sure the tyre is seated correctly on the rim. If it is seated correctly ask your Urban wheelz dealer to repair the wheel.



As with all mechanical components, the e-bike is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail, possibly causing injuries to the rider. Any form of crack, scratches or change of coloring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.

8.2.4 Roller brake adjustment

Over time wear on the braking surfaces will affect the brake performance of your e-bike. The best way to check the brake performance to pull on both brake levers and try to push the bike forward. If the wheels start to rotate with moderate pushing force, it is time to make an adjustment.

Adjusting for brake wear can be done by adjusting the brake cable length. The brake cable settings are adjusted as follows:

A

Always adjust the barrel in such a way that the lever can be pulled up to the grip under full force. Never adjust the roller brakes too tight. This can cause malfunctioning of the brakes which may lead to collisions and/or accidents. Always contact your Urban Wheelz Cargo dealer in case the barrel adjustment doesn't improve your braking performance.

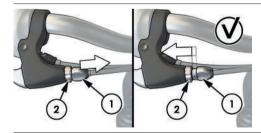


Image 41: Cable length adjustment

The front hub has a power modulator system to ease sudden lever power etc. Never adjust this system. Your warranty will be voided. In case you have problems with your brakes, contact your **Urban Wheelz Cargo** dealer.

8.2.5 Disc brake adjustment

The hydraulic disc brakes on your e-bike are self-adjusting. Every time you brake the lever will readjust so you cannot tell brake pad wear from the lever. You can have your **Urban Wheelz Cargo** dealer check the brake wear for you or you can check the pads of both the front and the rear wheel for wear yourself.



When the lever can be pushed easily all the way to the handlebar there is something wrong with the hydraulics. Stop riding the bike and have it checked by your Urban Wheelz Cargo dealer.



If you hear suspect noises while using the brakes or have noise coming from the brakes while riding have your disc brakes looked after.

Checking the brake pads (of both the front and rear wheel) for wear is done as follows:

- A pin with a split end is keeping the brake pads in position.
 Use pliers to remove this pin (see image 42).
- Take out the brake pads (see image 42 for removal of the brake pads at the rear wheel) and check them for wear. If the friction material is less than 1 mm the pads should be replaced.

For replacement of the pads contact your **Urban Wheelz Cargo** dealer.



Image 42: Removing the brake pads in order to check them for wear

8.2.6 Gear adjustment

Over time the cable between the grip and the gear hub will lengthen slightly, this is normal wear. A slack cable might affect the quality of operation of the gear system.

Checking for cable slack is done as follows:

- 1. Pull lightly on one of the two cable housings at the grip shifter. It doesn't matter which one of the two, they are connected internally.
- 2. Notice if there is any slack (see 'S' in image 43):
 - a. Slack 'S' less than 0.5 mm is not enough.

- Too little cable slack results in heavy shifting and damage to the shifter. Check the next alinea for information on how to increase the cable slack.
 - b. Slack 'S' between 0.5 1.5 mm is perfect.
 - c. Slack 'S' over 1.5 mm is too much.
- Too much cable slack may cause decreased shift performance and shift cable durability. Check the next alinea for information on how to reduce the cable slack.

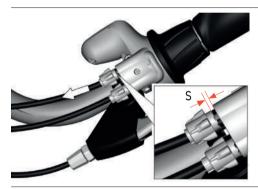


Image 43: Checking cable slack

Cable slack is adjusted as follows:

- 1. Take a seat on the saddle and face forward.
- 2. Adjust the cable slack setting (see image 44):
 - a. Reduce cable slack by turning the barrel at the grip shifter

- counter clockwise. The barrel will move away from the grip shifter.
- Increase cable slack by turning the barrel at the grip shifter clockwise. The barrel will move towards the grip shifter



Image 44: Reducing or increasing cable slack by turning the barrel at the grip shifter

8.2.7 Lubrication

When you have your e-bike maintained/serviced by your **Urban** Wheelz Cargo dealer all necessary lubrication will be performed by your dealer. There is no need to lubricate e.g. the chain yourself in between the service intervals. The Enviolo gear hub and grip shifter

are provided with permanent lubrication and the internals are maintenance-free for the life of the product.

8.2.8 Spares, accessories and safety-critical parts

①

Always use genuine replacement parts approved by your Urban Wheelz Cargo dealer. When using other replacement parts, Urban Wheelz Cargo shall not assume any liability and warranty.

Contact your **Urban wheelz** dealer for the following e-bike spare parts:

- Brake friction pad
- Chain/belt
- Sprockets
- Brake cable
- Gear cable
- Disc brake fluid
- Grip shifter
- Grips
- E-bike battery



Always use original Bafang batteries approved by your Urban Wheelz Cargo dealer. When you use other batteries, Urban Wheelz 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.

User manual User manual

Contact your **Urban Wheelz Cargo** dealer in case the following accessory needs replacement:

• Charger for the e-bike battery

Contact your **Urban Wheelz Cargo** dealer in case the following safety critical parts need replacement:

- Handlehar
- Stem
- Front fork
- Seat post
- Headset
- Brakes (roller brake and disc brake)
- Pedals
- Wheel (front and rear)
- Light (front and rear)
- · Safety harness including Fidlock buckle
- Reflectors
- Speed sensor
- Tyre (front and rear)
- Aftermarket modification to the speed sensor is considered as tampering.
- Don't fit your bike with tyres of a different measurement than specified. When you use a tyre with deviating specs it will affect both the Bafang electric system as well as the handling of the bike.

9 Transport

The batteries are subject to the Dangerous Goods Legislation requirements. Private users can transport undamaged batteries by road without further requirements.

When being transported by commercial users or third parties (e.g. air transport or forwarding agency), special requirements on packaging and labelling must be observed (e.g. ADR regulations). If necessary, an expert for hazardous materials can be consulted when preparing the item for shipping.

Dispatch batteries only when the housing is undamaged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging. Inform your parcel service that the package contains dangerous goods. Please also observe the possibility of more detailed national regulations. In case of questions concerning transport of the batteries, please refer to an authorised **Bafang** e-bike dealer. The **Bafang** e-bike dealers can also provide suitable transport packaging.



When you carry your e-bike outside of your car, e.g. on a luggage rack, the battery and/or display could fall out of their holders during transport. Always remove the battery and the display during transport to prevent damage to them.

Be aware that the display can activate itself when the e-bike is pushed backwards. When you press the on/off button on the activated display the electrical drive unit could switch on. Remove the battery from the e-bike before you begin work (e.g. inspection, repair, assembly, maintenance, work on the chain, etc.) on the e-bike, transport it by car or plane, or store it. Unintentional activation of the electrical drive unit poses a risk of injury.

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 DP C010.CB displays the error code on the HMI directly. 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). 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 finnally switch on the system power by pressing the control unit of HMI. Please contact Bafang aftersale service personnel wereaster as a part of the parts and finnally switch on the system power by pressing the control unit of HMI. Please contact Bafang aftersale service personnel wereaster as a part of the parts and finnally switch on the system power by pressing the control unit of HMI. Please contact Bafang aftersale service personnel were personnel <a href="https

Code	Cause	Troubleshooting		
		Hub Motor System	Mid Motor System	
05	Throttle not in place	Check whether the throttle is in place. Check whether the throttle cable is connected correctly or the cable (from throttle to controller) is damaged. Troubleshoot the faulty part: Neplace the throttle	1. Check whether the throttle is in place. 2. Check whether the throttle cable is connected correctly or the cable (from throttle to drive unit) is damaged. 3. Troubleshoot the faulty part: 1) Replace the throttle 2) Replace the drive unit	
07	System overvoltage protection	1. Check whether the nominal voltage of the battery is the same as the controller. 2. Troubleshoot the faulty part: 1) Replace the battery 2) Replace the controller	1. Check whether the nominal voltage of the battery is the same as the drive unit. 2. Troubleshoot the faulty part: 1) Replace the battery 2) Replace the drive unit	
08	Hall signal in motor is abnormal	1. Check whether the motor cable is connected correctly or the cable (from motor to controller) is damaged. 2. Troubleshoot the faulty part: 1) Replace the motor 2) Replace the controller	Replace the drive unit	

Code	Cause	Troubles	shooting	
code	Cause	Hub Motor System	Mid Motor System	
09	Phase wire in motor abnormal	1. Check whether the motor cable is connected correctly or the cable (from motor to controller) is damaged. 2. Troubleshoot the faulty part: 1) Replace the motor 2) Replace the controller	Replace the drive unit	
10	Motor overtemperature protection (Only occur when the motor is equipped with the temperature sensor.)	1. If riding for a long time, turn off the system and let the motor cool down. 2. If no ride or riding for a short time, troubleshoot the faulty part: 1) Replace the motor 2) Replace the controller	I. If riding for a long time, turn off the system and let the drive unit cool down. If no ride or riding for a short time, replace the drive unit.	
11	Motor temperature sensor abnormal (Only occur when the motor is equipped with the temperature sensor.)	1. Check whether the motor cable is connected correctly or the cable (from motor to controller) is damaged. 2. Troubleshoot the faulty part: 1) Replace the motor 2) Replace the controller	Replace the drive unit	
12	Controller curent sensor abnormal	Replace the controller	Replace the drive unit	
14	Controller overtemperature protection	If riding for a long time, turn off the system and let the controller cool down. If no ride or riding for a short time, replace the controller.	If riding for a long time, turn off the system and let the drive unit cool down. If no ride or riding for a short time, replace the drive unit.	
15	Controller temperature sensor abnormal	Replace the controller	Replace the drive unit	

Code	Cause	Troubleshooting	
	Cause	Hub Motor System	Mid Motor System
		Check whether the motor cable is connected correctly or the cable (from motor to controller) is damaged. Troubleshoot the faulty part: Neplace the motor	1. Check whether the spoke magnet has fallen off or the clearance between the spoke magnet and the speed sensor is within the normal range (10-15mm).
21	Speed sensor abnormal	2) Replace the controller	Check whether the speed sensor cable is connected correctly or the cable (from sensor to drive unit) is damaged.
			Troubleshoot the faulty part: Replace the speed sensor Replace the drive unit
26	Torque sensor abnormal (Only occur when the drive system is equipped with the torque sensor.)	1. Check whether the torque sensor cable is connected correctly or the cable (from sensor to controller) is damaged. 2. Troubleshoot the faulty part: 1) Replace the torque sensor 2) Replace the controller	Replace the drive unit
30	Communication abnormal	1. Check whether the HMI cable is connected correctly or the cable (from HMI to controller) is damaged. 2. Troubleshoot the faulty part: 1) Replace the controller if the HMI turns off automatically after appearing error code for 20 seconds. 2) Replace the HMI if the HMI doesn't turn off automatically after appearing error code for 20 seconds. (move to the next page)	1. Check whether the HMI cable is connected correctly or the cable (from HMI to drive unit) is damaged. 2. Troubleshoot the faulty part: 1) Replace the drive unit if the HMI turns off automatically after appearing error code for 20 seconds. 2) Replace the HMI if the HMI doesn't turn off automatically after appearing error code for 20 seconds. (move to the next page)

		Hub Motor System	Mid Motor System	
30	Communication abnormal	3) If the BESST tool is available, con- nect it with HMI and controller, read the information of HMI and controller and replace the part that cannot read information.	If the BESST tool is available, connect it with HMI and drive unit, read the information of HMI and drive unit and replace the part that cannot read information.	
36	ON/OFF Button detection circuit abnormal (Only occur when the drive system is equipped with Bafang CAN communication protocol.)	1. If keep pressing the ON/OFF button when the HMI powers on, the error code will alarm. Release the button and observe whether the code disappears. 2. Troubleshoot the faulty part: 1) Replace the HMI 2) Replace the controller	1. If keep pressing the ON/OFF button when the HMI powers on, the error code will alarm. Release the button and observe whether the code disappears. 2. Troubleshoot the faulty part: 1) Replace the HMI 2) Replace the drive unit	
37	WDT (Watch Dog Timer) in controller is abnormal	Replace the controller	Replace the drive unit	
42	Discharge voltage of battery pack is too low	Charge the battery Replace the battery		
49	Discharge voltage of single cell is too low	Charge the battery Replace the battery		
4C	Voltage difference between single cell	Replace the battery		

Code

Cause

Troubleshooting

11 Service plan

Having maintenance carried out following the **Urban Wheelz Cargo** service plan will keep your **Urban wheelz** in top shape. The checkups and adjustments that are part of regular maintenance will prevent breakage and costly repairs. Some **Urban Wheelz Cargo** dealers can arrange a pickup service for your bike. Check with your dealer for the possibilities.

Your warranty will be voided in case your Urban Wheelz Cargo has been maintained/services by a registered Urban Wheelz Cargo dealer.

When the service appointment is due, the display of the *Bafang* display will inform you of this for 4 seconds in the text indication by displaying '*Service*' after the display has been switched on. On the *Purion* display the service indicator will light up.

Model information		
Model type		
Frame number		
E-bike system		
Motor serial number *		
Battery serial number *		
Charger serial number *		
Display serial number **		
Dealer		
Delivery date		

- * Each of these components have a label containing the serial number. This serial number starts with 'S/N'.
- ** Urban Wheelz Cargo frame numbers start with 'UAMM' and will consist of 10 characters.

Owner information			
Name			
Address			
Country			

The gear hub and grip shifter internal freewheel mechanisms are serviceable.

12 Disposal

Your bike contains electrical components and needs to be disposed via your **Urban Wheelz Cargo** dealer.

Chargers, batteries, accessories and packaging should be recycled in an environmentally friendly manner. Do not dispose of batteries and chargers along with household waste. Apply tape over the contact surfaces of the battery terminals before disposing of batteries. Do not touch severely damaged e-bike batteries with your bare hands – electrolyte may escape and cause skin irritation. Store the defective battery in a safe location outdoors. Cover the terminals if necessary and inform your Urban Wheelz Cargo dealer. They will help you to dispose of it properly.

Only for EU countries: In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/drained batteries must be collected separately and recycled in an environmentally friendly manner. Please return batteries and (the electric and electronic parts of) your bike that are no longer usable to an Urban Wheelz Cargo dealer.

13 EC Declaration of Conformity

We-Mobile UrbanWheelzCargo BV Rhonelaan 20 5691 RB Son en Breugel



verklaart dat:

Product: EPAC

Merknaam: Urban Wheelz

Type: Cargo

Serienummer: UWC201...... EAN 8719326031408

Voldoet aan alle relevante bepalingen in de volgende richtlijnen:

- Machinerichtlijn (2006/42/EG);
- EMC Richtlijn 2004/108/EG;
- Laagspanningsrichtlijn 2006/95/EG (alleen voor de lader);
- RoHs2 richtlijn 2011/65/EU

De volgende geharmoniseerde Europese normen zijn toegepast:

- EN-ISO 12100:2010 Veiligheid van machines - Risicobeoordeling en risicoreductie

De volgende Europese normen zijn toegepast:

- EN 15194:2009+A1:2011 Fietsen Elektrisch ondersteunende fietsen EPAC Fietsen
- EN 14764:2006 Stads- en tourfietsen Veiligheidseisen en beproevingsmethoden

Son en Breugel 01-03-2017

Coen Vermeulen, Eigenaar / Oprichter.

Number	Where	What	Tool	Torque (Nm)	Remark
	Rear axle	2x M10 wheel axle nut	15 mm spanner	40 Nm	
	Adjusting screw quick release seat post	1x M6 quick release			
	Seat post - saddle	1x M6 saddle bolts	5 mm hex wrench	12 Nm	
	Stem bolt	1x M6 cylinder head bolt	5 mm hex wrench	16 Nm	
	Ahead steering set steering shaft	1x M6 cylinder head bolt	5 mm hex wrench	14 Nm	
	Front fork - headset clamp	2x M5 cylinder head clamp bolts	5 mm hex wrench	9 Nm	Tighten alternately. The bolts are located underneath the Urban Wheelz
	Front axle - disc brake wheel	1x spanner bolt 1x M5 hex nut	8 mm spanner 5 mm hex wrench	Spanner bolt: 11 Nm Hex nut: 8 Nm	To take out the front wheel, first release the hex nut and then the spanner bolt. To mount the wheel first tighten the spanner bolt and then the hex nut.
	Front axle - roller brake wheel	2x M9 wheel axle nut	15 mm spanner	28 Nm	

14.2 Appendix B Overview Maintenance

Service check-up at the dealer

- After 500 km;
- after 1500 km;
- every 2500 km;
- or every 12 months, whatever comes first.

Category	Service or Maintenance	Before every ride	Monthly	Dealer Service Check-Up
Wheels	Check tyre pressure. Tyre pressure should be 2.4-3.5 bar (front tyre) and 3-4 bar (rear tyre).	Rider / owner		Urban Wheelz Cargo dealer
	Check tyre tread and sidewalls for wear and cracks.		Rider / owner	
	Check for damaged and/or loose spokes.		Rider / owner	
	Check spoke tension. All spokes should at least have the same tension and the tension should not be too low.			Urban Wheelz Cargo dealer Urban Wheelz Cargo dealer
	True or retighten spokes if needed.			Urban Wheelz Cargo dealer
	Check wheel nuts and spanners.			Urban Wheelz Cargo dealer
	Check the rim for damage.		Rider / owner	Urban Wheelz Cargo dealer
	Check play on the hub axle.		Rider / owner	Urban Wheelz Cargo dealer
Brakes	Check the function of both brakes. Do not ride the bike if brake power is insufficient.	Rider / owner		

Category	Service or Maintenance	Before every ride	Monthly	Dealer Service Check-Up
	Disc brake: Check for oil leakage at the seals.		Rider / owner	Urban Wheelz Cargo dealer
	Disc brake: Check brake pads wear; replace when needed.		Rider / owner Ask your dealer for help if you are not sure how to spot excessive brake pad wear.	Urban Wheelz Cargo dealer
	Roller brake: Check cable travel and brake grease. Adjust if needed. Grease brakes if needed.			Urban Wheelz Cargo dealer
	Check the brake cables for damage. There shouldn't be any sharp bends, nodes in the cables. Check if the brake cables don't come in contact with moving parts of the bike.		Rider / owner	Urban wheelz dealer
	Disc brake: Check thickness of the disc rotors.			
Drive train	When you have a chain drive: wiggle the chain glider case so you can hear and feel whether the chain is still tight or not. When you have a belt drive: the tension can be measured with the Gates Carbon Drive Mobile Apps, offered on both iPhone and Android. These apps can measure the belt tension in the form of natural frequency (Hz) of the belt span. Operating instructions are provided within each app. The belt tension for your Urban Wheelz Cargo should be between 35Hz and 50 Hz.		Rider / owner	Urban Wheelz Cargo dealer

Category	Service or Maintenance	Before every ride	Monthly	Dealer Service Check-Up
	Check chain lubrication.			Urban Wheelz Cargo
	Check chain/belt wear, replace if needed. Replacing the chain on time prevents unnecessary wear to chainring and sprocket.			Urban Wheelz Cargo
	Check chainwheel and sprocket wear, replace parts if needed.			Urban Wheelz Cargo
	Check crank bolts, tighten if needed.			
	Lubricate shifter cables.			Urban Wheelz Cargo
	Check function of Bafang motor unit.			Urban Wheelz Cargo dealer All service work to the motor can only be done by a certified Urban Wheelz Cargo.
Steering	Check if the linkage between the handlebar and the fork is play free and that the linkage turns directly and smooth.	Rider / owner Contact your dealer if you feel there are irregularities in the steering linkage.		
	Check Ahead steering set front fork for play. Adjust when needed. Play in the headset could provoke vibrations. It is essential that play is eliminated. Check with your dealer when in doubt.		Rider / owner	Urban Wheelz Cargo

Category	Service or Maintenance	Before every ride	Monthly	Dealer Service Check-Up
	Check for play on ball joints or its threaded connection.		Rider / owner	Urban Wheelz Cargo
	Check ball joints for function and wear, replace if needed.			
	Check damper plate function, tighten if needed.			Urban Wheelz Cargo
Frame	Clean and polish the paintwork.		Rider / owner (at least every 6 months)	
	Check connecting bolts between front and rear frame by hand.			Urban Wheelz Cargo
	Check frame for irregularities.			Urban Wheelz Cargo
Controls	Check if the seat post doesn't slip in the frame, make sure the seat post clamp is tightened. Check if the seat post is not extended too far out.	Rider / owner		Urban Wheelz Cargo
	Check stem - handlebar connection.			
	If Installed: Check the suspension seat post for play or irregularities.			
	If Installed: Clean and lube the suspension seat post. Check all hinges and bolts.			Urban Wheelz Cargo
Other	Check that the front and rear light work.	Rider / owner		Urban Wheelz Cargo