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LOVE AT FIRST RIDE





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Thank you for choosing BIMAS BIKES as your companion on the road. If you would like to read this manual in English we refer you to our website.

DISCLAIMER

This manual is subject to change due to new developments. No rights can be derived from the data and descriptions in this manual. Therefore, the content is not binding. The original is drawn up in Dutch and can be found at www.bimasbikes.nl.

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INTRODUCTION

This manual provides information for the safe use and maintenance of your bicycle. Only the most important parts of the bike and the most common adjustment options are described. You can find the latest version of this manual at www.bimasbikes.nl

Manuals with additional information for specific components may also be included with your bicycle. All manuals can also be found at www.bimasbikes.nl.



01. SAFETY

1.1 Bicycle

Only use a bicycle that is suitable for you in terms of size and adjustment and also only use it for its actual purpose, which is to move the rider in traffic. The Bimas Bikes are intended for use only on paved, gravel or dirt roads that are in good condition and bicycle paths. The tyres always stay in contact with the ground. Some of the bikes are equipped with suspension but only to increase riding comfort and not to improve performance in unpaved terrain. Keep in mind that steering and braking can adversely affect each other. For instance, braking too hard while turning may cause the bicycle to skid.

Ask your dealer for advice to determine the correct size and adjustment. Do not subject the bicycle to heavy loads and improper use. After an accident or fall, have a professional check your bicycle for damage and replace damaged parts if necessary.

With an E-Bike, always consult the manual of the electrical system. This is included with your bike and can also be found on our website.

- The left brake lever operates the front brake, the right brake lever operates the rear brake.
- Never slide the seat stem out of the frame beyond the mark on the stem.
- Never slide the handlebar stem out of the fork beyond the mark on the stem.
- Always respect the indicated tightening torques on the parts (see item 14 page 13).

Cargo bike

A three-wheeled cargo bike rides differently than a regular bike, so take the time to get used to the handling of your cargo bike in a safe place without traffic. The main difference is that you remain upright when making turns while steering to the left or right by moving the bucket.

Maximum permissible total load of bike+rider+baggage

E-Bikes: 110 KG

Electric Cargo Bikes: 245 KG

- Rider 100 kg
- Bike 70 kg
- Cargo 75 kg

Regular bicycles: 110 KG





1.2 Helmet and Clothing

When cycling, always wear an approved helmet (DIN-EN 1078) and tight-fitting clothing with high visibility that cannot get caught between rotating parts. Wear well-fitting shoes that guarantee sufficient grip on the pedals in all weather conditions. Clothing/shoes that become soiled while cycling cannot be claimed from Bimas Blkes.

1.3 Weather

Always take into account the weather conditions in which you will be cycling.
Adapt your speed to these weather conditions, as rain and snow, your braking distance increases and grip with the road surface decreases. In extreme cases, it is better to take your bicycle by the hand and walk.

1.4 Traffic

Every user is legally obliged to keep their bicycle in a condition that is safe for traffic and roadworthy. Make sure you are aware of these legal obligations so you do not face unwanted situations. Also make sure you know and abide by local and national traffic regulations.

1.5 Lighting

Bimas Bikes bicycles comply with legal requirements and are suitable for public roads. However, there are bicycles that are not allowed on public roads during fog, twilight or dark conditions because they lack the necessary lighting. Get light units for these bikes in order to use them in the above conditions.

2. FOCUS AREAS FOR USE

Check:

- Wheel mounting. Make sure any quick-release clamps are fully closed. This requires some force. If the clamping force is too low, it can be increased by turning the nut clockwise in the open position and then closing the quick release clamp again.
- Handlebar/stem mounting
- Tyre pressure: never exceed the maximum allowable pressure indicated on the tyre.
 Bimas Bikes recommends that you use a bicycle pump equipped with a tyre pressure gauge when inflating your tyre.
- Profile of the tyres.
- Brake operation.
- Lighting.
- Gears.
- Saddle height.
- Front suspension operation.
- Function and mounting of pedals.
- Fold down your stand before you ride off.



3. ACCESSORIES AND EQUIPMENT

3.1 General

To avoid damage and accidents, get advice from your dealer on the choice of accessories to mount/attach to your bike. In doing so, consider the following points so that the accessory:

- Does not cover any lighting.
- Does not pinch cables.
- Does not damage handlebars or frame.
- Does not affect steering behaviour.
- Does not attach to an aluminium handlebar.
- Does not attach to a carbon fork.
- Does not exceed 5 kg including content in the case of handlebar bags or baskets.

3.2 Child seats

To avoid damage and accidents, get advice from your dealer on the choice of child seats to mount/attach to your bike. In doing so, consider the following points:

- Purchase only an EN 14344 approved child seat.
- Cycling with a child affects the handling of the bicycle and lengthens your braking distance.
 Preferably install the child seat on the back of the bicycle.
- Prevent limbs from getting caught between moving parts.
- Prevent fingers from getting caught between spring-loaded parts of the saddle.
- A child seat may carry a child up to a maximum of 20 kg. However, never exceed the weight indicated on the carrier. This can lead to breakage of the carrier and serious accidents.

- The child must wear a helmet and bicycle harness.
- Always remove the child from the child seat first and only then rest the bike on the stand.
- Never mount more than one child seat on your hicycle.
- The rider must be at least 16 years old to be allowed to transport a child.

3.3 Bike carriers

- If possible, remove all loose parts such as pumps, bags and water bottles before placing the bicycle on the carrier.
- If possible, for E-bikes, also remove the battery and display from your bike.
- Prevent damage to your bicycle due to incorrect or over-tightening of the mounting assembly.
- Be sure the carrier's lights are working properly and the lights and licence plate are clearly visible.
- Check your bicycle for damage after arrival.

3.4 Trailers

- The use of trailers and so-called trailer bikes is not allowed





MANUAL BIMAS BIKES

4. MAINTENANCE

Have your bicycle serviced by your dealer. It is wise to have the bicycle first serviced within 3 months and again after 1 year. Remember that through regular inspection, you can prevent a lot of unnecessary damage in the long run and therefore a lot of unnecessary costs. Never deviate from the original specification and settings during maintenance.

When doing your own maintenance, please consider the following points:

- Do not use a pressure washer or car wash to clean your bicycle.
- Prevent electrical components from coming into contact with water.
- Prevent oil and grease from coming into contact with rims, brakes and brake discs to ensure proper braking performance.
- Brake pads wear out so occasionally adjust the fine adjustment.
- New brake pads for disc brakes need to be broken in
- Touch up paint damage immediately.
- Lubricate your chain regularly to prevent wear and corrosion. Also check your chain tension and have it tightened by your dealer if necessary.
 Tensioning is necessary if the chain can be moved up and down more than 10 mm from the tensioned position.
- Have a blow to a wheel repaired immediately by the dealer.

5. SADDLE

5.1 Desired seat height

The seat height refers to the distance between the seat portion of the saddle and the pedal in the down position. The seat height is set correctly when the knee is just slightly bent while you have your foot on the pedal (in the down position).

Do not hesitate to ask your dealer for advice!

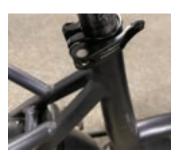
!NOTE! If you can place your feet flat on the ground, your saddle is too low.

5.2 Saddle adjustment

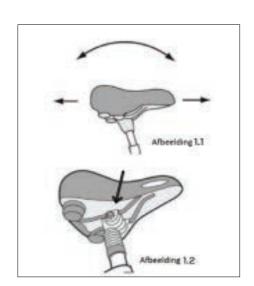
The height of the saddle can be adjusted by immediately loosening the socket bolt of the seat stem clamp.



If you have a seat stem clamp with Quick Release Function, the height of the saddle can be adjusted by opening the lever and closing it again with the saddle at the correct height. Make sure that the saddle's nose is aligned with the frame.



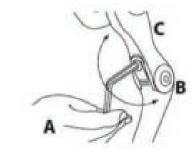
You can tilt the saddle and adjust it both forwards and backwards (1.1). To do this, loosen the nut on the underside of the saddle (1.2) with a wrench. Once the correct position is reached, do not forget to tighten this nut again.

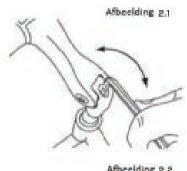


6. HANDLEBAR

6.1 Desired steering settingst

As a rule of thumb for determining the distance between the handlebars and the saddle, you should be able to touch the handlebars with your fist while resting your elbow on the tip of the saddle. This rule of thumb should be seen as a guideline because the setting is, above all, very personal. Please note that too much distance between saddle and handlebar is often the cause of neck, back and shoulder complaints. Bimas Bikes recommends that you work with your dealer to adjust the handlebars and saddle to your needs.









6.2 Handlebar adjustment

By adjusting the height (2.1 A), depth (2.1 B) and inclination (2.1 C), you can set the handlebar to the position you want.

To adjust the height of the handlebar, first remove the plastic cover. Then loosen the expander bolt with an Allen wrench (2.2). After you have set the correct height, tighten the bolt properly again. Next, check that your handlebar is secure.

6.3 Handlebar adjustment (Cargo bike)

The height of the handlebar of the cargo bike can be adjusted by opening the Quick Releases on the left and right side, adjusting the height of the handlebar and then closing the Quick Releases again with the handlebar at the correct height.



7. LIGHTING

7.1 Switching lights on and off

Bicycles with hub dynamo: Via the on/off button on the light unit, you simultaneously switch on the front and rear lights. Bicycles with battery lights: Light units at front and rear must be switched on separately via the on/off button.

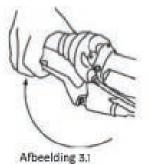
Bicycles with electric system: To switch on lights, refer to the manual for the respective system. Sometimes, these bikes have a battery light unit on the front that must be turned on separately via on/off button.

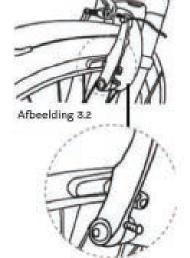
!NOTE! When cycling without the battery. some bikes do not allow you to use the lights, or only partially.

8. BRAKES

8.1 Desired brake adjustment (V-Brakes)

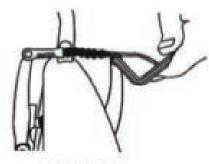
The brakes should be adjusted so that when you squeeze the lever a quarter to half way (3.1) the entire braking surface of the brake pads is pressed against the rim (3.2).



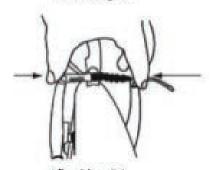


8.2 Coarse Brake adjustment

If the adjustment of your brakes strongly deviates from the desired adjustment, you will first need to change the coarse adjustment of your brakes. Adjust the coarse adjustment of your brakes by loosening the cable clamp bolt (3.3) with an Allen key. Then you can push the brake arms together to the desired distance using your thumb and index finger (3.4). Make sure the brake cable stays under the clamp bolt, then tighten the clamp bolt securely again.



Afbeelding 3.3



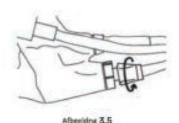
Afbeelding 3.4





8.3 Fine tuning brakes

With the cable adjustment screw (attached where the brake cable leaves the lever), you can fine tune the brakes (e.g. Rollerbrakes). By turning the cable tilt screw inward, you relax the cable slightly, while turning it outwards tightens the cable (3.5).

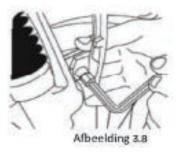




8.4 Brake pad replacement

The brake pads must be replaced when the notches have worn away (3.6). In order to replace the brake pads, you must first turn the cable adjustment screw inward so that the brake cable relaxes (3.5). Then, using your thumb and forefinger, press the brake arms toward each other (3.4) and disconnect the brake cable (3.7). You has enough room to loosen the brake pad mounting bolts (3.8).





8.5 Rollerbrake

The Shimano roller brake is similar to a drum brake. The brakes should be adjusted so that you can squeeze the lever a quarter to half way (3.1). You can fine tune the brakes in two ways. At the brake lever on the handlebar (3.5) and at the Rollerbrake (3.9). Leave the coarse.





8.6 Disc brake

With your disc brakes, two brake pads are pushed out by a hydraulic system and these two brake pads hit the brake disc, which will slow your wheel. The system sets itself and your brake pads come out further when worn, so you don't have to compensate for the wear with an adjustment yourself.

Check regularly that there is still sufficient brake lining on the brake pads and replace it in time. New brake pads should be broken in under dry conditions to ensure optimum braking performance. This can be done by making an emergency stop a few times with brakes whose blocks have been replaced. After a few stops, an increase in braking power will be noticeable. Your brake discs are also subject to wear and should be replaced in a timely manner.

If your brake feels 'spongy' it may be that there is air in the system. In that case, have your dealer look at the brake.

8.7 Parking brake (Cargo bike)

Your cargo bike has what is called a parking brake that prevents your cargo bike from rolling away when parked. Squeeze the brake lever, move the knob to activate the parking brake from position A to B and release the brake lever again. The brake lever remains in the squeezed position and the brake is activated. To release the parking brake, squeeze the brake lever again and turn the knob back to position A.



9. GEARS

Your bike may be equipped with gears.
You can control the gears by turning the inside of the right handlebar (4.1) while cycling. Do not shift more than one gear at a time.
Hub gears allow you to shift gears while standing still. With derailleur systems, this is only possible when the bike's drive is active.







10. LOCK

Your bike is equipped with a ring lock. The ring lock can be closed by turning the key clockwise and then pushing down the lock's bracket.

Then pull the key out of the lock when you have reached.

Then pull the key out of the lock when you have reached the lowest position with the bracket.

11. RIMS

On the brake surface of the rim there is a wear indicator in the form of one or sometimes two grooves. When this groove is no longer visible, the rim should be replaced.

12. SPRING-LOADED FORK

A 'Preload' setting may be present on the left side of the spring-loaded telescopic fork. This dial allows you to make your fork stiffer by turning the dial clockwise.

13. PEDALS

The pedals usually have an L(eft) or R(ight) on them. Tighten the right pedal by turning the wrench clockwise. Tighten the left pedal by turning the wrench counter clockwise.









14. BELTS (CARGO BIKE)

Your cargo bike is equipped with three-point seat belts. The belts can be easily adjusted according to the child sitting in the bucket. The left and right buckle must be simultaneously pressed into the locking mechanism to lock the belts. The red button is used to unlock the belts again.







15. ASSEMBLY TORQUES

Part	Torque (Nm)
Satori EZ-3-A-head	9-10
Stem expander bolt (fig 5.2)	20
Seat post clamp bolt	5-7
Pedals	30
Brake pads	5-6
Wheel nut front (1)	20-25
Wheel nut back (1)	25-30

(1) For E-Bike motor nuts, use the torque recommended by the manufacturer.

Warning1

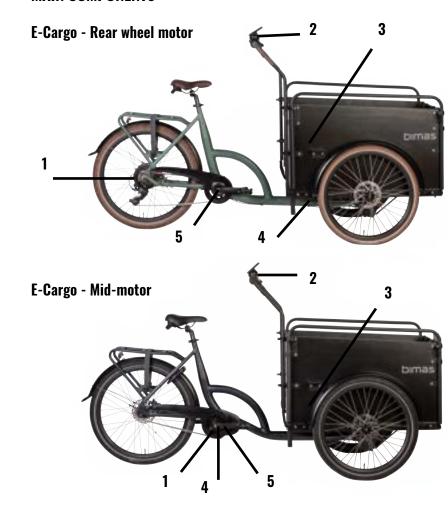
As with most mechanical parts, a bicycle/E-Bike is subject to wear and high loads. Different materials and components react differently to wear and loads. A part, at the end of its service life, may suddenly break off, potentially causing injury to the cyclist. Therefore, it is recommended to watch for scratches, breaks and or discolouration during inspections and have parts replaced in a timely manner.

Warning 2

With composite (carbon) parts, damage during a collision can remain invisible to the user. These parts must either be returned to the manufacturer for inspection and evaluation, or these parts must be destroyed and replaced. Carbon parts should also not be exposed to high temperatures (radiation).



ELECTRIC CARGO BIKES MAIN COMPONENTS



- 1. Motor
- 2. Display
- 3. Battery
- 4. Controller
- 5. Pedal sensor





E-BIKES MAIN COMPONENTS

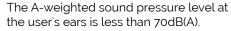




1. Motor

18

- 2. Display 3. Battery
- 4. Controller 5. Pedal sensor





16. GENERAL E-BIKE INFORMATION

16.1 Battery and range

The amount of energy that can be stored in your battery will decrease over time. The amount of energy expressed in Wh in combination with the E-bike system used determines how far you can ride your electric bike. In addition, the following factors affect your range:

- The choice of degree of pedal assistance.
- Speed.
- Gear selection.
- Weather conditions; wind, temperature.
- Route profile; slopes.
- Type of road surface.
- Weight of the rider.
- Bicycle type
- Tyre type and tyre pressure.

16.2 Disconnecting the battery

The lock to unlock the battery is on the left side of the battery. For this you can use the key of the anti-theft lock if no separate keys are supplied. On the back of the battery pack, a handle has been integrated that you can use to pull the battery pack out of the carrier. After inserting the battery, remove the key again to unlock your bike.





16.3 Battery charging

The battery can be charged either separately or on the bicycle. Use only the included charger.

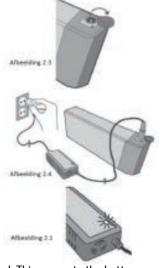
- 1. Unscrew the plastic cover cap (Fig. 2.3)
- 2. Connect the charger to the battery (Fig. 2.4)
- 3. Connect the charger to 220V! In this order only!

Battery

During charging, an orange light is illuminated. It turns green once the battery is fully charged.

Charger

During charging, a red light is illuminated. It turns green once the battery is fully charged. (Fig. 2.1)



Focus Areas

20

- Disconnect the charger as soon as the battery is charged. This prevents the battery life from being shortened.
- A completely dead battery should be recharged immediately. Cells left empty for too long can be damaged beyond repair.
- Make sure the battery is charged to at least half of a full battery charge every three months. Failure to do so can damage the battery beyond repair.
- Remove the battery from the bicycle if you are not using it for a long time.
- Use the battery charger only in dry, well-ventilated areas.
- The battery charger is not resistant to moisture and/or drop impacts.
- The battery is not resistant to drop impacts.



16.4 Additional information battery

Prevent short circuits and never connect the positive contact of the battery to the negative contact. The battery is splashproof and therefore resistant to rain. You can therefore use your bike in bad weather just fine. Be careful with large amounts of liquids and do not expose them to the battery, specifically when the battery is disconnected from the bicycle. The environmental impact is not heavy, electricity is considered a clean form of energy.

The performance of your battery will decrease at low temperatures. The battery pack can be fully charged approximately 1000-1200 times under ideal conditions. Performance will slowly decline with much use and over time, and eventually the battery pack will need to be replaced. Do not expose the battery to high temperatures (>50°C), such as heating, direct sunlight and fire. Do NOT disassemble the battery. Consult the dealer in case of problems. For long-term storage, place the battery in a shaded, cool and dry place

"The stated range is optimal at a measured temperature of about +/- 25°C. The guideline is that the capacity decreases by 1% with each 1°C drop in temperature..

16.5 Waste processing

Your battery must be returned at the end of its life cycle to be recycled. It is best to do this at your dealer. So never throw your battery in the garbage.







16.6 Technical data

Technical data	Bafang FM G311.250
Position	Front wheel
Nominal continuous power	250W
Nominal voltage	36 V
Nominal torque	30 Nm
Water protection class	IP65

Charger	WUXI SANS SSLC100V49
Voltage	49.2 V
Power	2A

Battery	Bafang 450W
Battery cells	Lithium-ion
Charging time	6.5 h
Nominal voltage	43V
Nominal capacity	10.4Ah
Energy	450Wh
Operational temperature	-20 – 60 °C
Storage temperature	-10 – 35 °C
Permitted charging temperature	0 – 45°C
Weight	3.5 Kg
Water protection class	IP66



Bafang RM G020.250	Bafang M200	Bafang M400	Bafang M420
Rear wheel	Mid frame	Mid frame	Mid frame
250W	250W	250W	250W
36 V	36 V	36 V	36 V
45 Nm	65Nm	80 Nm	80 Nm
IPX5	IPX5	IP65	IPX5

EBC420200	0V1	ST Charger
42V		36V
2A		2A

Vestel RC01	eCargo 460 Wh	eCargo 630 Wh
Li-ion 21700 Samsung, NCA, Graphite + Si	Lithium-ion	Lithium-ion
For 2A charger 8.3h, For 4A 3.9h, For 5A 3.4h	6.5 h	9.1 h
36V	36 V	36 V
15Ah	12.8 Ah	17.5 Ah
540Wh	460Wh	630Wh
-10 – 50°C	-20 – 60 °C	-20 – 60 °C
-20 – 60°C	-10 – 35 °C	-10 – 35 °C
0 – 45°C	0 – 45°C	0 – 45°C
3.1 Kg (Battery pack) / 3.5 kg (With mounting parts)	2.7 Kg	3.3 Kg
IP66 (Mated), IP65 (Unmated)	IP66	IP66





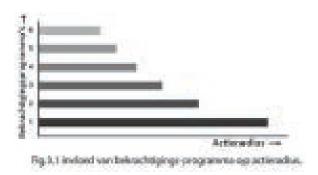
17. PEDAL ASSISTANCE

17.1 Pedal assistance

The e-bike is equipped with electric pedal assistance. The motor complements your own effort, increasing your performance while you exert less force. The operation of the pedal assistance depends on the speed at which the pedals are rotated and the bicycle speed. If there is no pedalling, then the motor does nothing. When starting up, the assistance provided by the motor is great so that it easily helps you get going. An e-bike with pedal assistance up to a speed of 25 km/h with a maximum power of 250W and which assists only as long as the rider pedals themselves is called an EPAC. EPAC stands for Electrically Power Assisted Cycle.

17.2 Switching pedal assistance on and off

As soon as you turn on the control panel, the pedal assistance is switched on in the last used position. You can use the arrow keys to increase or decrease the level of assistance. You can turn off the pedal assistance by using the down arrow on the control panel to set the assistance to the 'O' setting. Keep in mind that heavy assistance drains the battery faster than lighter assistance (see Figure 3.1).



17.3 Additional information pedal assistance

- Because of the powerful assistance, you will easily reach higher speeds than you are used to. Try the bike in a low-traffic area first to get used to your new bike.
- Getting on the e-bike, when the pedal assistance is on, is different from a regular bike. You will ride off more easily. Do not be surprised by the assistance and familiarise yourself with it before you get into heavy traffic. We recommend that you use assistance setting 1 for cycling off from a standstill.
- When the pedal assistance is off, the e-bike cycles with extremely little resistance. That means the e-bike can also be used without a battery, like a regular bike.
- The operation of the pedal assistance depends on the speed at which the pedals are rotated and the bicycle speed.
- The pedal assistance is legally limited to a speed of 25 km/h. This means that as you approach a speed of 25 km/h, the pedal assistance will gradually decrease to zero.

!NOTE! When riding off, remember that the pedal assistance will enhance your effort. Do not launch yourself too enthusiastically.

!NOTE! Turn off the assistance when you get off the e-bike. Never walk with assistance switched on. switched on.

!NOTE! Keep both brakes applied when standing still with the assistance



Do not dispose of electronic equipment with regular waste.



Caution



Product meets the applicable rules within the European



Caution! Hot surface.





Caution! Surface can be hot.



Product is internationally recognised for recycling activities.



Do not touch!



18. WARRANTY AND CONTACT

Please note that all warranties and conditions are voided if modifications are made to the bicycle or if original parts are not used for replacement. Should parts be replaced by non-original parts, then this is at your own risk.

For more information regarding our consumer warranty policy, we refer to our website www.bimasbikes.com. If you are unable to reach our website you can contact us by phone or e-mail. We will then provide you with the current warranty terms.

Contact details:

Email: contact@bimasbikes.com Phone number: 075-7113043



Register your servicing.

First servicing (3 Months or 500 km after purchase)

Date of servicing	Bimas Dealer	Initials or stamp

Second servicing (9 Months or 1500 km after purchase)

Date of servicing	Bimas Dealer	Initials or stamp

Thirds servicing (18 Months or 2500 km after purchase)

Date of servicing	Bimas Dealer	Initials or stamp



