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This operating manual contains various points and pointers, providing important information about your new pedelec and how to use it, referring to possible damage to property and the environment, and warning against potential falls and serious damage, including physical injury. It is also essential that you comply with the correct torque in order to prevent components from coming loose or breaking. Make sure to read all the documentation supplied.

- This symbol signifies a risk that the danger described may occur.
- Warning texts are always displayed against a gray background.

The warnings break down as follows:

**Information:** This symbol provides information about how to use the product or highlights specific parts of the operating manual that are particularly important.

**Warning:** This symbol is used to warn users against improper use that could result in damage to property or the environment.

**Danger:** This symbol indicates possible dangers to your health and/or even life that may arise if specific actions are not undertaken or corresponding regulations adhered to.

**Important bolted connection!** Please adhere to the exact recommended torque when tightening this connection. The correct mounting torque is either displayed on the component. A torque wrench must be used to achieve the precise torque prescribed. If you do not own a torque wrench, then you should leave this work up to a specialist retailer. Parts connected using an incorrect torque may fall off or break. This can result in serious accidents.

**Operating Instructions.** Make sure to read all the installation manuals delivered with the product. If you have doubts concerning any part of the manual, do not install the product yourself. Please consult the local sales office or a pedelec dealer for help.
SAFETY INSTRUCTIONS

General information

Please ensure you read the chapters “Before the first ride” and “Before each ride” before using the pedelec for the first time.

- If you lend your pedelec to a third party, please give them this operating manual along with the pedelec.
- Check that all quick releases are safe and secure every time you ride, and after your pedelec has been left unused, even for a short period of time. Regularly check that all bolts and components are secure.
- Never ride with your hands off the handlebars, except when signaling a change of direction.

When using this product, be sure to follow the instructions given in the user manual.

- It is recommended that you only use genuine BAFANG parts.
- The pedelec may suddenly fall over and serious injury may occur if nuts and bolts are left loosened, or the product is damaged or improperly adjusted.
- When performing maintenance operations (replacing parts, for example), be sure to wear goggles to protect your eyes.
- Please refer to the manuals provided along with the product for information uncovered by this manual.
- After reading the user manual carefully, keep it in a safe place for later reference.

For your safety

Always apply the Pedelec’s brakes before placing your foot on the pedal. The motor will drive forward as soon as you push down the pedal. This force may be unfamiliar and can lead to falls, danger or even traffic accidents, which could result in injury.

- Do not pay too much attention to the cycle display while riding, otherwise you may fall off the pedelec.
- Check that the wheels are securely attached to the pedelec before you start riding. If the wheels are not securely installed, the pedelec may fall over and serious injury may result.
- When riding a pedal-assisted electric pedelec, make sure that you are fully familiar with the starting characteristics of the pedelec before riding it. If the pedelec starts off suddenly, accidents may occur.
- Make sure the pedelec’s lights are on before riding at night.
- It is vital that all bolted connections on the pedelec have the correct torque in order to ensure that they are secure. An incorrect torque can damage the screw, nut or component. Always use a torque spanner to tighten screw joints. You are not able to correctly tighten these bolted connections without this specialist tool!
- Do not modify the system yourself. Doing so may be considered illegal or cause the system to malfunction.

Installation and Maintenance

It is vital that all bolted connections on the pedelec have the correct torque in order to ensure that they are secure. An incorrect torque can damage the screw, nut or component. Always use a torque spanner to tighten screw joints. You are not able to correctly tighten these bolted connections without this specialist tool!

Before performing any kind of work on your Pedelec, turn off the electric motor unit and remove the battery. Not doing so may result in serious injury and/or electric shock.

The frequency of maintenance will vary depending on riding conditions. Periodically clean the chain using an appropriate chain cleaner. Do not use alkaline or acidic cleaning agents to remove rust under any circumstances. If such cleaning agents are used, they may damage the chain and serious injury may result.

Safety Precautions

- Please follow the instructions given in the user manuals for your riding safety.
- Regularly examine the battery and the charger for damage, especially the cable, plug and casing. If the battery or charger is damaged, it must not be used until it has been repaired.
- Please follow the guidance given by the safety supervisor or the instructions indicated in the manual when using the product. This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lacking the required experience and knowledge, unless supervised or having received instructions concerning use of the product by a person responsible for their safety.
- Do not allow children to play near the product.
- Should you encounter any errors or problems, consult your nearest dealer.
- Do not modify the system yourself. Doing so may be considered illegal or cause the system to malfunction.
- For information on product installation and adjustments, please consult with your dealer.
- The product is designed to be fully waterproof so as to withstand wet weather riding conditions. However, do not deliberately immerse it in water.
- Do not clean the pedelec using a high-pressure cleaner. If water gets into any of the components, operating problems or rusting may result.
- When shipping the product on a high-speed vehicle exposed to rain, remove the battery and put it in a safe place to stop it from getting wet.
- Handle the product carefully, and avoid subjecting it to any strong impacts.
- Key important information may also be found on the product labels.
- When buying a spare key for the battery, be sure to provide the number on the battery key. Please keep the number in your mind or your notebook.
- Use a wrung-out damp cloth to clean the battery casing.
- For any questions regarding maintenance and use of the product, please contact the dealer where you bought the product.
• Natural wear and tear due to normal use and aging is not within our scope of our quality warranty.
• Please contact your dealer for software updates (if applicable).
• Please get to know the pedelec on a safe piece of land before setting off on your first ride!

Quick Start

In this section, you will find important information and instructions that will enable you to safely use your Pedelec as quickly as possible.
• Read all safety instructions.
• Fully charge the battery pack.
• If necessary: Insert the battery.
• Lock the battery.
• Activate the system using the LED button on the battery.
• Press the "O" button on the display: the system will turn ON.
• Select the support level via the control unit.

→ The Pedelec is now ready for operation.

Before the first ride

Practice operating and riding your Pedelec in a calm and safe place before you take to public roads.

Before each ride

If you are unsure as to whether your pedelec is in sound technical condition, take it to a specialist retailer to be checked instead of riding it.

If you are unsure as to whether your pedelec is in sound technical condition, take it to a specialist retailer to be checked instead of riding it.

The frame, fork, suspension components and other parts relevant to your safety such as brakes and wheels are subject to heavy wear, which can impact the operating safety of these parts. If you use parts for longer than their intended lifetime, these can fail without warning, which can in turn lead to falls and serious injury.

Before every ride, please check that:
• The lights and bell are working and are safely secured.
• The brakes are working safely and are properly secured.
• The cables and fittings are not leaking if you have a model with hydraulic brakes.
• The tires are free of foreign objects and damage, and the rims are not damaged and run true, particularly after riding off-road.
• The tires have a sufficient tread depth.
• The suspension components are working properly and are safely secured.
• All bolts, nuts and quick releases are tightly fastened.
• There are no deformations or cracks in the frame and fork.
• The handlebars, stem, seat post and seat are all correctly and securely fastened and are set in the right position.
• The seat post and seat are secure. Try turning the seat or pulling it upwards or downwards. They should not move.
• If you are using clipless/magnetic pedals, please check that they are working properly. The pedals should release easily and smoothly.
• Make sure that the battery is sitting securely in its place.
• Make sure that the battery is sufficiently charged for your trip.
• Check that the quick releases are fastened and secured each time your pedelec has been left unattended – even if it is for just a short time.

Legal Regulations

![Please stay informed about the national regulations applicable in your specific country. Before riding your Pedelec on public roads, read up on the national regulations applicable in your specific country. This section provides information on how the pedelec must be equipped to be allowed on public roads. It includes information on:
• Which light systems have to be installed or carried with you?
• Which brakes must the Pedelec be equipped with?
• There may also be age restrictions that apply to riding in specific areas.
• For example, the issue of children riding on public roads is addressed here.
• If there is an obligation to wear a helmet, it is stated here.}

"Please also consult the additional operating manuals, issued by the individual component manufacturers and which were supplied with your pedelec or are available online. Your specialist pedelec retailer will be happy to answer any further questions you may have after reading this manual.

Please ensure that your pedelec is ready for use and is adjusted to your body:
• Set the position and fixture of the seat and handlebars.
• Check the assembly and settings of the brakes.
• Secure the wheels into the frame and fork.
• Charge the battery until it is fully charged.
• Ensure that the battery is sitting securely in its place.

Legal Regulations

Please stay informed about the national regulations applicable in your specific country. Before riding your Pedelec on public roads, read up on the national regulations applicable in your specific country. This section provides information on how the pedelec must be equipped to be allowed on public roads. It includes information on:
• Which light systems have to be installed or carried with you?
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• If there is an obligation to wear a helmet, it is stated here."

Before the first ride

Practice operating and riding your Pedelec in a calm and safe place before you take to public roads.
1 DISPLAY (DP C07.UART)

1.1 Specifications and Parameters of the Display

- 36V / 43V / 48V Power Supply;
- Rated Current: 10 mA
- Maximum Operating Current: 30 mA
- Power-off Leakage Current: <1μA
- Operating Current Supplied to the Controller: 50 mA
- Operation Temperature: -18 ~ 60 °C
- Storage Temperature: -30~70 °C
- Waterproof Grade: IP65
- Storage Humidity: 30 % – 70 %

1.2 Appearance and Dimensions

1.2.1 Materials and Dimensions
- The shell is made of PC. The liquid crystal display is made of hardened PMMA.

1.3 Function Overview and Key Definitions

1.3.1 Function Overview

- Use of a two-way serial communication protocol, simple operation of the display via the external 5-key keypad.
- Speed display: displaying the real-time speed as SPEED, the maximum speed as MAXS and the average speed as AVG.
- km or mile: The user can choose between km and mile.
- Intelligent battery level indication: With an optimization algorithm, a stable display of the battery level is ensured, and the problem of fluctuant battery level indication common with other displays is avoided.
- Automatic light-sensitive lights: The headlight, tailight and display light will be automatically turned on/off depending on lighting conditions.
- 5 levels of display backlighting: Different levels
- 5-Level-Support: setting power Levels 1 to 5
- Trip distance indication: The maximum distance displayed is 99999. Single-trip distances TRIP or the total distance TOTAL can be displayed.
- Display of error messages
- Walk assistance
- Settings: Various parameters, e.g. mode, wheel diameter, speed limit etc., can be set on the computer via a communication cable. See the setting
- Maintenance warning (this function can be deactivated): Maintenance warning information is displayed based on battery charge cycles and riding distance. The display automatically estimates the battery life and gives warnings when the number of charge cycles exceeds the set value. A warning will also be displayed when the accumulated total riding distance exceeds the set value.

1.3.2 Information on the Display

A. Maintenance warning: When there is a need for maintenance the symbol will be displayed (riding distance or the number of battery charge cycles exceed the set value, function can be deactivated)
B. Menu
C. Speed display: display of the speed, km/h or mph
D. Speed mode: average speed (AVG km/h), maximum speed (MAX km/h)
E. Error display: When a fault is detected the symbol will be displayed.
F. Distance indication: display of the distance depending on the setting.
G. Level indication: The chosen level 1–5 will be displayed; if there is no numeric display, it means that there is no assistance (by the motor). If the rider is walking and pushing the e-bike, will be displayed.
H. Walk assistance
I. Headlight indication: only shows when headlight or backlight are on
1.3.3 Key Definitions

- A: up
- B: down
- C: headlight
- D: on/off
- E: mode

1.4 Normal Operation

1.4.1 On/Off Switch
Turn on the device. Press and hold \[a\] for 2 seconds to power on the display. Press and hold \[b\] again for 2 seconds to power off the display. If the bike is not used, after 5 minutes (time can be set) the display will be automatically turned off.

1.4.2 Assist Mode Selection
In the manual gearshift mode, press the \[c\] or \[d\] to choose the desired level of support by the motor. The lowest level is Level 1, the highest Level 5. When the display is on, the default mode is Level 1. When there is no numeric mode display, there is no power assistance.

1.4.3 Switch between Distance Mode and Speed Mode
Briefly press \[e\] to switch between distance and speed. Single-trip distance (TRIP km) → total distance (TOTAL km) → maximum speed (MAXS km/h) → average riding speed (AVG km/h) are displayed in successive order.

Selecting the level for motor assistance

Switching between displays
1.4.4 Headlight/ Display Backlight Switch

Press [ ] for 2 seconds. The backlight of the display as well as the headlight and taillight will be turned on. Press [ ] again for 2 seconds to power off the display backlight/headlight/taillight. (If the display is turned on in a dark environment, the display backlight/ headlight/taillight will be turned on automatically. If the display backlight/headlight/taillight are turned off manually, they also need to be turned on manually afterwards).

1.4.5 Walk Assistance

Press [ ] for 2 seconds. The e-bike enters the walk assistance mode, and the symbol WALK is displayed. Once the key [ ] is released, the e-bike will exit the walk assistance mode.

1.4.6 Battery Status Indication

When the battery status is normal, a certain number of the battery LCD segments as well as the border light up according to the actual quantity of charge. If all of the 10 segments will black out with the border blinking, the battery needs to be charged immediately.

1.5 Parameter Setting

1.5.1 Items to be Set:

1. Data reset
2. km/mile
3. Light sensitivity
4. Display backlight brightness
5. Automatic off time
6. Maintenance warning settings
7. Input of the password
8. Wheel diameter selection
9. Setting speed limit

Switch between power assistance and walk assistance mode

Battery status indication
1.5.2 Setting Preparation
When the display is active, press twice (interval < 0.3 seconds). The system will enter the parameter setting state, in which the display parameters can be set. Press twice again (interval < 0.3 seconds) to return to the main menu.

Menu for entering the parameter settings

In the parameter setting state, when the parameter you want to set begins to flash, press to adjust the parameter value. Briefly press to switch between the parameters to be set. Press twice (interval < 0.3 seconds) to exit the submenu.

If no operation is performed for 10 seconds, the display will return to the normal riding display.

1.5.3 Data Reset
Press twice (interval < 0.3 seconds) – the display enters the MENU state. In the speed field ITC is displayed. If you press, a y is also displayed. Temporary data, e.g. maximum speed (MAXS), average speed (AVG) and single-trip distance (TRIP) can be cleared. Briefly press (< 0.3 seconds) to enter the km/mile setting interface.

If the user does not reset the data, the single trip distance and the accumulated total riding time will be automatically cleared when the accumulated total riding time exceeds 99 hours and 59 minutes.

The data will not be cleared when the display’s light-sensing function is set to 0 or when it is switched off.

1.5.4 km/mile
When the speed field displays 57, press to switch between km/h and mph, or to set km or mile.

After this setting, briefly press (< 0.3 seconds) to enter the setting interface of light sensitivity.

1.5.5 Light Sensitivity
When the speed field displays bL0, use to choose a figure between 0 and 5. The higher the chosen figure, the higher the light sensitivity.

After this setting, briefly press (< 0.3 seconds) to enter the setting interface of backlight brightness.

1.5.6 Display Backlight Brightness
When the speed field displays bL1, press to choose a figure between 1 and 5. The figure 1 represents the lowest brightness while 5 indicates the highest display backlight brightness.

After this setting, briefly press (< 0.3 seconds) to enter the setting interface of automatic off time.
1.5.7 Automatic Off Time
When the speed field displays OFF, press the up/down arrow to choose a figure between 1 and 9. The figures indicate the minutes that it takes to automatically shut down the display.
After this setting, briefly press (< 0.3 seconds) to enter the setting interface of maintenance warning.

1.5.8 Maintenance Warning (can be deactivated)
When the speed field displays nnA, press the up/down arrow to choose either 0 or 1. 0 disables the function while 1 enables it.
After this setting, briefly press (< 0.3 seconds) to enter the setting interface of password input.

1.6 Error Code Definitions
The MAX-C966 display can show e-bike faults. When a fault is detected, the icon will be displayed. In the speed field one of the following error codes will be displayed:

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Error Description</th>
<th>Error-shooting Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;03&quot;</td>
<td>Brake enabled</td>
<td>Check whether a brake cable is stuck</td>
</tr>
<tr>
<td>&quot;04&quot;</td>
<td>The throttle has not returned home</td>
<td>Check if throttle has returned home</td>
</tr>
<tr>
<td>&quot;05&quot;</td>
<td>Throttle fault</td>
<td>Check the throttle</td>
</tr>
<tr>
<td>&quot;06&quot;</td>
<td>Low voltage protection</td>
<td>Check the battery voltage</td>
</tr>
<tr>
<td>&quot;07&quot;</td>
<td>Overvoltage protection</td>
<td>Check the battery voltage</td>
</tr>
<tr>
<td>&quot;08&quot;</td>
<td>Motor hall signal cable fault</td>
<td>Check the motor module</td>
</tr>
<tr>
<td>&quot;10&quot;</td>
<td>The motor temperature has reached the threshold</td>
<td>Stop the bicycle until the error code &quot;10&quot; disappears from the screen</td>
</tr>
<tr>
<td>&quot;11&quot;</td>
<td>Controller temperature sensor failure</td>
<td>Check the controller</td>
</tr>
<tr>
<td>&quot;12&quot;</td>
<td>Current sensor failure</td>
<td>Check the controller</td>
</tr>
<tr>
<td>&quot;13&quot;</td>
<td>Battery temperature fault</td>
<td>Check the battery</td>
</tr>
<tr>
<td>&quot;21&quot;</td>
<td>Speed sensor fault</td>
<td>Check installation position of speed sensor</td>
</tr>
<tr>
<td>&quot;22&quot;</td>
<td>BMS communication fault</td>
<td>Replace the battery</td>
</tr>
<tr>
<td>&quot;30&quot;</td>
<td>Communication fault</td>
<td>Check the controller connection</td>
</tr>
</tbody>
</table>

Note: Error Code 10 will probably appear on the display when the e-bike is climbing for a long time. This indicates that the motor temperature has reached the protection value, in which case the user needs to stop the e-bike for a rest. If the user continues to run the e-bike, the motor will automatically cut off the power.
2 Batteries

2.1 User Instructions

Please read the battery instructions and the battery label before use.

-- Image of battery --

Model numbers: BT C01.340. UART, BT C01.450. UART

Risk of fire or explosion if battery is used with an incompatible system.
Do not open, disassemble or pierce battery due to risk of short circuit, fire or explosion.

Only use the original charger as supplied with battery due to risk of fire or explosion.
Disposal of used batteries should follow locally enforced regulations.
Please carefully read manual before use.

- The battery is not shipped fully charged. Recharge the battery completely before the first use and before storing.
- After the first three charging cycles, fully charge the battery. This will give you the full capacity of your battery. If the battery is continuously discharged during later use, its service life will be considerably reduced.
- In normal operating conditions, partial charges will increase the battery life. Never leave your battery completely empty, and recharge it even after a short period of use.

A special charger provided by BAFANG must be used to charge these batteries.

- Do not charge the battery for longer than the charging time listed in the Specification table.
- Do not bring electrical contacts together. Do not destroy or disassemble the battery yourself. Do not store or use the battery in humid places so as to avoid any danger.
- When disposing of battery, ensure you respect regulations. Do not immerse in fire or water.
- When in use, the battery should be kept away from heat sources, high voltage power supplies and children.
- Do not drop the battery.
- When storing the battery for a long period, make sure it is charged to at least half its capacity and charge it again three months later. Do not wrap it with conductive material, as to do so will cause damage due to direct contact between the metal and the battery. Store the battery in a dry place.
- Keep the battery out of the reach of children, and especially ensure they do not bite or swallow the battery.
- If the battery appears to be in an unusual condition, seems dirty or presents a strange odor, do not use. Faulty batteries should be returned to the vendor.

2.2 Notification

- The battery should not be left indirect sunlight so as to avoid over-heating, distortion, smoking or weakening its performance and product life.
- The battery should always be kept away from children. Do not allow children to remove the battery from the pedelec or the charger, or to play with it.
- Do not allow the battery to leak on skin or clothes.
- If touched, rinse off with clean water to avoid skin discomfort.
- If the battery is used in any other technical environment, please contact your manufacturer for details on how to get the best performance, as well as information on its maximum current and fast charge conditions and any special applications.
- Do not microwave or use in any other cooking appliance.
- Distance the battery from cell phones or chargers if it is hot to the touch, leaking or odorous, and dispose of it. Faulty batteries will cause over-heating, smoking or burning.
- Do not touch a leaking battery. Leaking electrolytes can cause skin discomfort. If this battery acid comes into contact with the eyes, do not rub and immediately rinse with clean water then go to hospital for treatment.
- Note: If the battery is completely discharged, charge it as soon as possible. Leaving the battery uncharged for long periods of time will damage its capacity.
2.3 Caution

- Do not disassemble the battery. The battery contains protective components and will internally short-circuit to avoid danger. Mishandling, such as improper disassembly, may destroy its protective functions and cause it to overheat, smoke, distort or burn.
- Do not intentionally short-circuit the battery. Do not touch or connect the plus and minus contact with metal. Do not allow the battery to come into contact with metal elements in storage or in use. If the battery is short-circuited, its current will be magnified, which will cause damage and make the battery over-heat, smoke, distort or burn.
- Do not heat or burn the battery. Heating or burning the battery will cause the isolated elements in the battery to dissolve, the protective function to stop or the electrode to burn or over-heat, which in turn may cause the battery itself to over-heat, smoke, distort or burn.
- Avoid using the battery near a heat source. Do not use the battery near a fire or stove, or at over 60 °C, as overheating will cause the battery to internally short-circuit and make it over-heat, smoke, distort or burn.
- Avoid charging near exposed flames or in direct sunlight. Doing so may cause the internal protection function to short-circuit and lead to abnormal chemical reactions or functional faults, which will lead to overheating, smoking, distortion or burning.

- Do not damage the battery. Do not allow the battery to be gouged, forged or dropped, as this may cause it to over-heat, distort, smoke or burn, and result in danger for the user.
- Do not directly weld on the battery. Any application of heat will cause the isolated elements to dissolve within the battery which will affect its protective function and life cycle, as it will over-heat, distort, smoke or burn.
- Do not charge directly off the power socket or a car cigarette lighter. High voltage and amplified current will damage the battery and reduce its life cycle, as it will over-heat, distort, smoke or burn.

2.4 Specifications

<table>
<thead>
<tr>
<th>Basic settings</th>
<th>BT C01.340_UART</th>
<th>KLC99UF03S.8D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>340 Wh</td>
<td>490 Wh</td>
</tr>
<tr>
<td>Charging time</td>
<td>4.5h with a 2A Charger</td>
<td>-</td>
</tr>
<tr>
<td>Operating Temperature during Charging</td>
<td>0° ~ 45 °C</td>
<td>0° ~ 45 °C</td>
</tr>
<tr>
<td>Discharge</td>
<td>-20° ~ 60 °C</td>
<td>-20° ~ 60 °C</td>
</tr>
<tr>
<td>Storage (At 35% SOC, -10° ~ 35 °C)</td>
<td>6 Months</td>
<td>6 Months</td>
</tr>
<tr>
<td>Riding Distance</td>
<td>Min 40km</td>
<td>Min 70km</td>
</tr>
<tr>
<td>Position</td>
<td>Carrier</td>
<td>Integrated to the frame</td>
</tr>
<tr>
<td>Dimensions(L * W * H)</td>
<td>408<em>123</em>70 mm</td>
<td>445<em>43</em>70 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>3 KG</td>
<td>2.3 KG</td>
</tr>
<tr>
<td>Charger</td>
<td>Special 5P charger</td>
<td>-</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/UN38.3</td>
<td>CE/UN38.3</td>
</tr>
<tr>
<td>Warranty</td>
<td>24 months *</td>
<td>24 months *</td>
</tr>
</tbody>
</table>

* from the date of sale, check your bicycle brand warranty papers for the specific details.

2.5 Charger

Please read the charger instructions and the charger label before use.
2.6   OPERATION

2.6.1   Installing the battery

For correct insertion, the battery must be inserted and locked from the rear of the casing as far as it will go. Without contact with the battery, the electric drive of your pedelec will not work.

1. if your battery has an on/off switch, always turn off the battery before inserting it into the holder.
2. For the battery to be inserted, the lock must be unlocked. You can lock and unlock the battery by turning the key provided.
3. Slide the battery along the rail track into the connector on the rail as far as it will go, then turn the key to lock the battery.
4. Remove the key to avoid losing or breaking it.

2.6.2   Removing the battery

When removing the battery proceed as follows:
1. Switch off the electric drive system and, if possible, the battery.
2. Unlock the battery.
3. Remove the battery from the casing/battery holder.
4. Hold the battery tightly as it is heavy.

2.6.3   LED capacity and state of charge indication

Press the button to wake up from Sleep mode.
Hold down the button for 5 seconds to wake up from Deep Sleep mode.
Then check the current charge level of your battery by pressing the on/off button of the battery. The charge status is indicated by LEDs, which are illuminated for different charging states as listed in the following table.

• Press the button to wake up from Sleep mode
• Hold down the button for 5 seconds to wake up from Deep Sleep mode

<table>
<thead>
<tr>
<th>Charging State</th>
<th>LED Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>Full</td>
</tr>
<tr>
<td>70%</td>
<td>3/4</td>
</tr>
<tr>
<td>50%</td>
<td>1/2</td>
</tr>
<tr>
<td>20%</td>
<td>1/4</td>
</tr>
<tr>
<td>0%</td>
<td>0/4</td>
</tr>
</tbody>
</table>

When you clean the charger, unplug it from the electrical socket first.
When charging takes longer than shown in the specifications table, stop charging.
After charging, remove the battery from the charger and unplug the charger.

Keep the charger away from children and animals. Small children and animals may damage the cable while playing. This can lead to an electric shock, a malfunction or a fire.

The charger must not be used by children, or by persons with limited physical, sensory or mental capabilities, unless under the supervision of a responsible adult.
Make sure the charger is clean. There is a risk of electric shock.
Do not use your charger in humid or dusty places.
Avoid direct sunlight.
Disconnect the charger from the power supply when not in use.
Only use the charger that came with your pedelec or one from the same manufacturer.
Don’t cover the charger while it is in use. It could otherwise short circuit or cause a fire.
2.7 Charging the battery

You can charge your battery both while mounted on the Pedelec and removed. Lithium-ion batteries are not subject to a memory effect. You can recharge your battery at any time, even after short trips.

Charge your battery at temperatures between 0 °C and 45 °C (ideally at room temperature or 20 °C). Give the battery sufficient time before charging to reach this temperature.

Read the instructions on the charger before charging.

1. First insert the plug of the charging cable into the charging socket on the battery, then the plug the charger into a socket.
2. As soon as the charger is connected to the power supply, a red LED will light up.

When the system is triggered in operation mode: Press the button for 1 second for the BMS to display the charge of the battery on the LEDs for 5 seconds. Hold down the button for 5 seconds for the BMS to display the capacity of the battery on the LEDs for 5 seconds. After this, the BMS will turn off the LED display to save battery power.

<table>
<thead>
<tr>
<th>LED</th>
<th>LED state</th>
<th>SOC</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>![first_led_flickers]</td>
<td>First LED flickers</td>
<td>( \leq 5 % )</td>
<td>When the system is triggered in operation mode: Press the button for 1 second for the BMS to display the charge of the battery on the LEDs for 5 seconds. Hold down the button for 5 seconds for the BMS to display the capacity of the battery on the LEDs for 5 seconds. After this, the BMS will turn off the LED display to save battery power.</td>
</tr>
<tr>
<td>![one_green_light]</td>
<td>One green light</td>
<td>( 5 &lt; C &lt; 10 % )</td>
<td></td>
</tr>
<tr>
<td>![two_green_lights]</td>
<td>Two green lights</td>
<td>( 10 \leq C &lt; 30 % )</td>
<td></td>
</tr>
<tr>
<td>![three_green_lights]</td>
<td>Three green lights</td>
<td>( 30 \leq C &lt; 50 % )</td>
<td></td>
</tr>
<tr>
<td>![four_green_lights]</td>
<td>Four green lights</td>
<td>( 50 \leq C &lt; 75 % )</td>
<td></td>
</tr>
<tr>
<td>![five_green_lights]</td>
<td>Five green lights</td>
<td>( \geq 75 % )</td>
<td></td>
</tr>
</tbody>
</table>

Errors – Causes and Solutions

<table>
<thead>
<tr>
<th>Error description</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The operating display does not light up</td>
<td>Mains plug not properly connected to the power supply</td>
<td>Check all connections and whether the charger is properly connected to the power supply</td>
</tr>
<tr>
<td>The charging indicator is not lighting up</td>
<td>The battery may have a malfunction</td>
<td>Contact the manufacturer or your specialist dealer</td>
</tr>
<tr>
<td>The charging indicator is not lighting up permanent red</td>
<td>The battery may have a malfunction</td>
<td>Contact the manufacturer or your specialist dealer</td>
</tr>
</tbody>
</table>

Make sure you use the correct mains voltage. The required mains voltage is indicated on the charger. It must comply with the voltage of the current source. Chargers marked 230V can also be operated at 220V.

- Do not touch the power plug with wet hands. There is a risk of electric shock.
- Before use, check that the charger, cable and plug are not damaged. If damage occurs, do not use the charger. There is a risk of electric shock.
- Charge the battery in well-ventilated rooms only.
- Do not cover the charger and/or battery during charging. There is a risk of over-heating, fire, or explosion.
- Only charge on a dry, non-flammable surface.

Only use the charger designed for the battery.

The battery has to be recharged completely at least every 3 months, in order to avoid damaging or destroying the cells.

If the charging time exceeds the usual charging times (see table), the battery may be damaged. In this case, immediately stop charging. Have a dealer check the battery and charger to avoid damage.
2.8 Switching the electrical system on and off

Make sure that the pedals of your Pedelec are not weighed down when the system is turned on. Any load on the pedals as it is switched on may lead to power restrictions and error messages. When this happens, switch off the system and turn it on again.

Conditions
In order to activate and use your Pedelec, the following prerequisites must be fulfilled:

- A sufficiently charged battery must be used.
- The battery must be inserted correctly into the battery holder.
- The motor, control unit, control unit/battery, etc. must all be connected correctly.

You can switch the electrical system of your Pedelec on and off according to the description on the control unit, see section “Control element”. If the battery of your Pedelec is equipped with an on/off switch, you can also press the switch on the battery.

Battery switch On-Off

If you press the switch again, the system will be turned off.

2.9 Storing the battery

If you do not use your Pedelec for an extended period of time, remove the battery, charge it (60-80%) and store it separately in a frost-free, dry room.

- Check the charge level every 3 months and recharge if necessary.
- Store your battery at a temperature between -10 °C and 35 °C.
- Avoid storing in direct sunlight.
- To prevent deep discharge, the battery will go into sleep mode after a certain time.
- Do not expose the battery to temperatures below the permissible storage temperature of -10 °C to 35 °C. Note that temperatures of around 45 °C are common near heaters, in direct sunlight or in over-heated vehicle interiors.

If you notice the battery becoming hot during use, charging or storage, developing a strong odor, changing appearance, or any other abnormality, do not continue to use the battery. Immediately stop using the battery and have a dealer check it before you use it again.
2.10 Battery wear

The battery can run for approx. 500 charging. During that time, the battery capacity and range of your Pedelec will decrease. You should then replace the battery. If the range is still sufficient, you can continue to use it.

As the service life increases, the capacity of the battery slowly decreases. This also reduces the range of your Pedelec with regard to engine support. This does not constitute a defect.

The battery life depends on various factors:
- The number of charging operations (about 500 charging cycles).
- The age of the battery.
- The storage conditions.

Of course, your battery will deteriorate and capacity will be lost even if you do not use the battery. The lifetime of your battery can be influenced by the following measures:
- Charging your Battery after every ride, even short trips. Lithium-ion batteries are not subject to a memory effect.
- Avoiding driving in high gears with high levels of push-assistance.

3 CUSTOMER SERVICE

If you have any questions concerning the electrical system, please contact the manufacturer or your specialist dealer.
4 TRANSPORTING THE PEDELEC

Remove the battery before transportation and transport it separately. Cover the contacts with a transport cap to prevent the risk of a short circuit. In the case of a short circuit, there is a risk of injury and fire.

4.1 By car

You can transport your Pedelec by car as you would a normal pedelec. The weight of the Pedelec will call for a heavier-duty rack.

4.2 By public transport

The same regulations apply as when transporting a bicycle. For safety reasons, remove the battery before entering a train with the Pedelec, and do not put it back until you have dismounted.

4.3 By airplane

The battery must be considered as a hazardous material. It must be carried as such. Please consult your airline.

5 DISPOSAL CONSIDERATIONS

If parts of your Pedelec are replaced, please take note of the waste disposal instructions for your local waste disposal company. Used batteries and accumulators must not be disposed of with normal household waste.

Every consumer is obliged by law to dispose of used batteries at a collection point specifically for used batteries at a recycling center, battery trading company, specialist dealer or manufacturer. Batteries containing harmful substances are marked with a symbol consisting of a crossed-out waste bin and the chemical symbol (Cd, Hg or Pb) of the heavy metal which is responsible for its classification as a pollutant.

For further information, please contact your local waste disposal service or your municipal administration.

Waste batteries, accumulators with lead, NiMH (nickel metal hydride) or lithium-ion technology are considered dangerous goods. Lithium-ion batteries should be isolated on each pole with insulating tape to prevent short-circuiting, and potentially dangerous follow-up reactions. When transporting or transferring the batteries to a waste disposal facility, the provisions of the ADR (regulations for the transport of dangerous goods) apply.

According to European Directive 2006/66/EC, defective or used batteries must not be used, and, in accordance with the European Directive 2002/96/EC, electrical equipment that is no longer usable must be collected separately and recycled in an environmentally sound manner.

The drive unit, battery, display, control element, accessories and packaging must be recycled in an environmentally sound manner. Do not throw components of the electric drive out with household waste. Dispose of used batteries with an authorized pedelec dealer.
In all nations which apply EU law, the common conditions for warranty/liability for material defects apply. Please inform yourself about the applicable national regulations in your specific country.

Under EU law, the seller accepts liability for material defects for at least two years after the date of sale. This also covers defects which already existed at the time of sale/change of ownership. In fact, if material defects occur within the first six months, the assumption is made that these already existed at the time of sale.

One precondition for the seller assuming this liability is that the product’s use and maintenance was in line with all conditions stipulated. These are outlined in the pages of this operating manual and in the supplied instructions from the component manufacturers.

In most cases, the customer can first request subsequent fulfilment. If repair fails conclusively, which is the assumption after two attempts, the customer is entitled to abatement or cancellation of the contract.

Liability for material defects does not cover normal wear occurring from the product’s intended purpose. Components in the motor and deceleration system as well as tyres, light system and contact points of the rider with the pedelec are all subject to use-related wear.

Suzhou Bafang Motor Science-Technology Co., Ltd (hereinafter referred to as the “BAFANG Motor”) guarantees that: During the warranty period and the issues are indeed quality issues concerning material and workmanship.

Warranty Period and Scope

The warranty period starts from the date of sale, and is 24 months for the motor, and 24 months for the controller, display, sensor and other components. Check your bicycle brand warranty papers for the specific details.

The BAFANG limited warranty does not cover or apply to the following situations:

1. Damage, failure and/or loss caused by refitting, neglect, improper maintenance, accident, misuse, abuse or use for competition or commercial purposes;
2. Damage, failure and/or loss due to shipping by customer;
3. Damage, failure and/or loss caused by improper installation, adjustment or repairs;
4. Damage, failure and/or loss irrelevant to material and workmanship, e.g., failure to follow instructions by users;
5. Damage, failure and/or loss caused by product’s appearance or surface modifications which do not affect its function;
6. Damage, failure and/or loss due to maintenance or installation by repair stations or dealers unauthorized by BAFANG;
7. Damage, failure or loss caused by normal wear and tear.

BAFANG reserves the right to repair or replace the components, and is only responsible for repairing or replacing them.

Should pedelec manufacturers or dealers encounter quality issues when using or selling BAFANG products, they can report the purchase order number and product’s serial number to BAFANG’s technology service department who will check whether the products are under warranty or not. For products under warranty, and for small problems, BAFANG will provide customers (dealers or pedelec manufacturers) with free spare parts so that they can correct the problem themselves. For bigger issues, BAFANG will provide customers with free spare parts, show them what to do by sending them videos or documents or, in some cases, repair the products for them. For products no longer covered by warranty, BAFANG can still provide spare parts or repair the products for customers, but the incurred material cost, labor cost, freight etc. shall be undertaken by the customers.

If an end user has a pedelec equipped with BAFANG components which need repairing, they should contact the pedelec manufacturer or dealer directly.

If this warranty statement goes against a current Chinese law, the Chinese law shall prevail. BAFANG reserves the right to modify the terms without prior notice. For the latest information, please visit the company website: www.szbaf.com.