



APACHE®
BICYCLES

EN



APACHE EBIKE

USER MANUAL



Congratulation on purchase of your eBike Apache!

We wish you many effortless kilometers and lots of extraordinary experiences behind the handlebars. We believe you will be with you eBike satisfied.

EBike and especially its battery require regular maintenance and suitable storage.

Read carefully this user manual first before using your eBike for the first time. Remember that misuse, insufficient maintenance or inappropriate storage can cause damage to the eBike and you may lose the warranty as a result.

Immediately after the purchase check that you have received together with your eBike all accessories listed here. Charger, battery lock keys and tools (spanner 18/15 and allen wrench key) are included in to each Apache eBike.

WHAT IS AN EBIKE AND ITS CONSTRUCTION PARTS

EBike is like any other bike equipped by electric motor, control unit and battery. Motor has a role of a helper that helps the rider to pedal and provides comfort. In general the motor can be activated only if the rider turns the cranks actively himself thus is he pedalling. The crank motion is scanned by a special sensor placed in bottom bracket. Maximum speed of an eBike with motor assistance is approximately 25 km/h. As soon as this speed is reached the motor switches off automatically and you continue riding just like any another bike. If your battery becomes flat or your electric motor is switch off you can use the eBike as a standard bicycle using your own power without any resistance.

Motor can be started using the control button or accelerator, however solely to maximum permitted speed 6 km/h. This function is called walking assistant and is useful by taking off, walk or other manipulation with eBike. Reaching higher speed is impossible without rider's active endeavour.

From the Road traffic law point of view is every E-bike matching with all attributes the European norm EN 15194-1 treated as a regular bicycle. There is no need of driving licence, without any worries you can use it on bicycle paths and cycling helmet is obligatory only up to the age of fifteen. **Nevertheless we do recommend using the cycling helmet to all E-bike users without difference.**

Technical specification of Apache eBike:

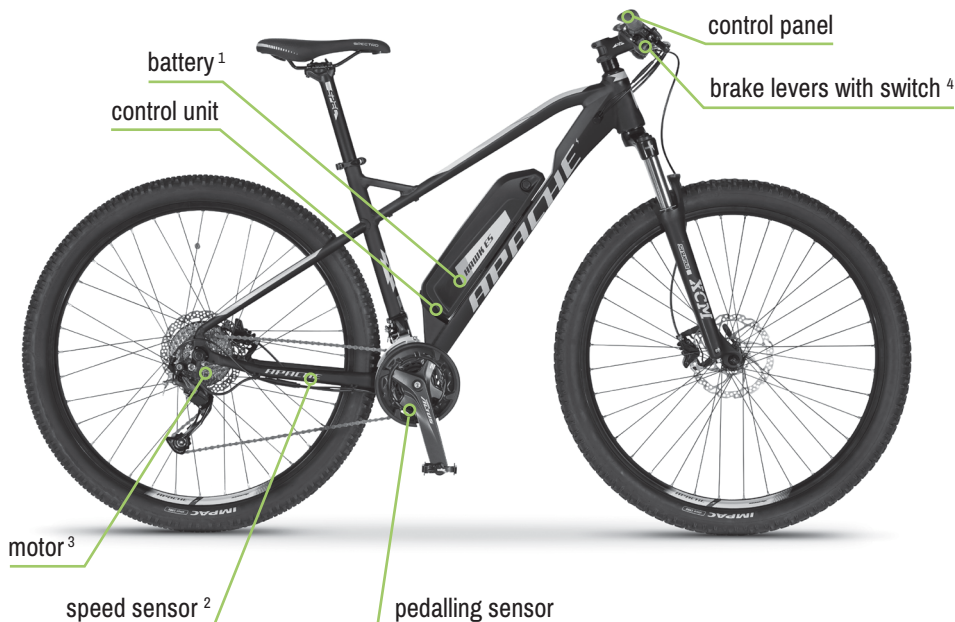
Nominal motor performance 250W

Voltage of electric system 36 V

Operating temperature 0 / +40 °C

Storage temperature -10 / +50 °C

Protection class IP 54 (protection from dust and splashing water)



¹ Battery can be placed on down frame tube, behind the seat tube or in the carrier. ² Only on eBikes with LCD or TFT display.

³ Motor is either middle motor or in rear/front wheel. ⁴ Brake levers with switch are used only on eBikes with mechanical brakes.

GENERAL INFORMATION FOR USE OF eBIKE

IMPORTANT

Before every ride check the brakes functionality and battery charge status.

During the ride on eBike always use cycling helmet!

Riding an eBike

Riding eBike is just like on any other bike. Just push and set off from the ground and pedal. The motor activates itself after the crank spinning and operates further according to mode of assistance setted up.

In case of using the brakes the motor switches off automatically. This does not apply to the models with hydraulic disc brakes whose levers are not equipped by all appropriate sensors. The motor by such models switches off within two seconds after you stop pedalling.

As soon as you reach speed of 25 km/h the motor automatically switches off and reactivates when the speed drops again below this limit.

The motor does not operate when you do not pedal or turn the cranks backwards.



Long-lasting ride with low rotation speed and high assistance mode can cause an overheating and in case of high load motor damage even. At such case we strongly recommend to reduce the assistance mode.



Regardless the selected gear it is suitable to stop pedalling shortly during the gear change. That simplifies the gear change and reduces the wear of the motor.



Function of the eBike can be affected by external electromagnetic impacts (e.g. radars, radio-locators, etc.).

RECOMMENDATION

After every ride connect the battery to the charger and let it charge. The battery doesn't have memory effect therefore it's not required to discharge it completely before recharging.

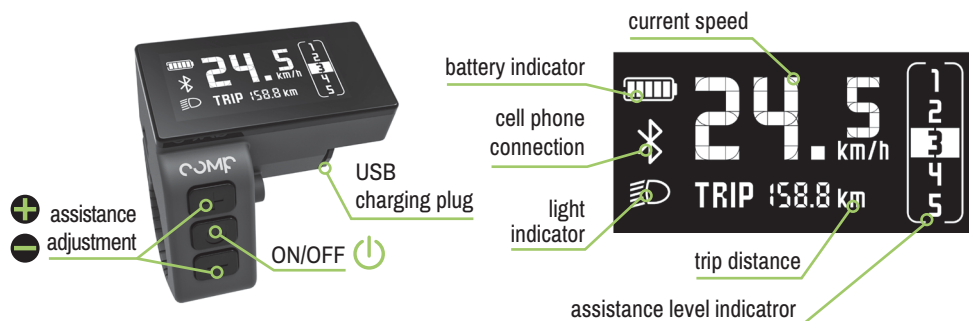
RECOMMENDATION

In case of any problems with switching to lower or higher gear we recommend additional installation of "Gear sensor" that shortly disconnects the motor during the gear change. The gearing does not happen during full motor engagement which saves the motor itself and all transmission components.



Display RM-1 - eBIKE CONTROLS

(Payat Comp, Tuwan Comp, Yamka Comp, Matto Comp, Matta Comp)



Turning the bike on

- 1 Turn on the battery.
- 2 Hold the button  until the display lights up.



Switching the bike off

- 1 Hold the button  until the display turns off.
- 2 Turn off the battery.

In case of inactivity, the display shuts down in 15 minutes.

In case of inactivity, the battery shuts down in 30 minutes.



Level of assistance adjustment

Level of assistance is adjusted by buttons  . Number 5 stands for the highest level, number 1 stands for the lowest level. Active level is shown on the display scale. If no number is marked, the assistance is switched off.

Erasing the trip distance

To erase the trip distance hold both buttons   for couple of seconds..








Turning the lights on/off

If your bike is equipped with the light connected to bike's control unit, this light can be operated through the display. To turn the lights on hold the button . To switch the light off hold the button  again. If the light is on the light icon will appear on the display..

Walking assistance

Hitting the button  followed by pressing button  will activate walking assistant. Walking assistant remains active as long as you hold the .

Display settings

By holding the buttons   you can enter the display settings. With   buttons the menu can be browsed. Each menu item can be entered by hitting shortly  the item will flash. Return to the menu by hitting the  again. To stop editing, hold the  for couple of seconds. Some of the items in menu are only for your information and can not be edited.

Display menu items:

PSH – walking assistance maximum speed

BLG – display back light (1-5)

d S – software version (can not be edited)

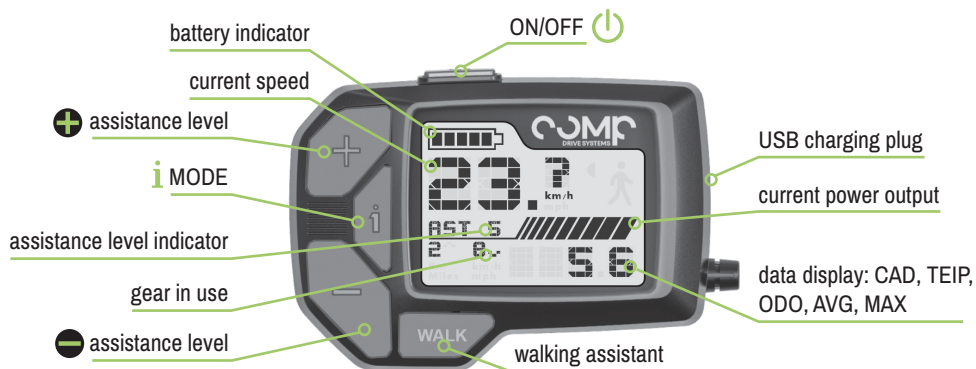
d b – display bootloader version (can not be edited)

C S – motor software version (can not be edited)

C b – motor bootloader version (can not be edited)

Display VHD-S18 - eBIKE CONTROLS

(Payat Comp, Tuwan Comp, Yamka Comp, Matto Comp, Matta Comp)



Turning the bike on

- 1 Turn on the battery.
- 2 Hold the button  until the display lights up.





Switching the bike off

- 1 Hold the button  until the display turns off.
- 2 Turn off the battery.

In case of inactivity, the display shuts down in 15 minutes.

In case of inactivity, the battery shuts down in 30 minutes.

Assistance level

Assistance level is adjusted by buttons  . Number 5 stands for the highest level, number 1 stands for the lowest level. Active level is shown on the display scale. If number 0 is marked the assistance is switched off.

Browsing the displayed data

By pressing  you can browse the menu items:

TRIP – distance ridden since the last erasing

ODO - distance ridden totally

AVG - Average speed



MAX - Top speed measured

(CAD) - Pedalling cadence and gear in use

Erasing the temporary data

To erase the temporary data hold both buttons   for couple of seconds while the TRIP is shown on the display. This will erase - TRIP, AVG, MAX.

Turning the lights on/off

If your bike is equipped with the light connected to bike's control unit, this light can be operated through the display. To turn the lights on hold the button . To switch the light off hold the button  again. If the light is on the light icon will appear on the display.

Walking assistant

Hitting the button **i** followed by pressing **WALK** button will activate walking assistant. Walking assistant remains active as long as you hold the button **WALK**.

Basic settings menu

By holding the **i** and **⊖** buttons you can enter the settings. With **⊕** **⊖** buttons the menu can be browsed. Each menu item can be entered by hitting **i** shortly - the item will flash. Return to the menu by hitting the **i** again. To stop editing, hold the **i** for couple of seconds. Some of the items in menu are only for your information and can not be edited.

PUSH - maximum walking assistant speed (also affected by gear in use) - (3-6km/h)

BLG - display backlight (L1-L5)

CALIB RDIGH - rear derraileur calibration (see below)

CALIB FD - front derraileur calibration (not in use on Apache bicycles)

DISP SW - display software version (can not be edited)

DISP BOOT - display bootloader version (can not be edited)

MC SW - motor software version (can not be edited)

MC BOOT - motor bootloader version (can not be edited)

Rear derraileur calibration

Gear sensor is properly calibrated from factory, however on some cases it may be required to redo this process.

NOTE: During the calibration process its required to spin the crankset and shift therefore its recommended to attach the bike to a stable stand. Calibration can also be processed while riding the bike, however this may be inaccurate.



When calibrations process starts it MUST not be interrupted. In case of interruption the GSGI may malfunction. In case of faulty calibration, redo the process according to the instructions. In some cases you may be requested to turn off the battery.

1. Shift to 1st gear (largest sprocket)
2. In set up menu enter the CALIB RDIGH item **i**.
3. Press the button **⊕**, displayed detail will start to flash and change to digit 1. The calibration starts.
4. While spinning the crankset shift to 2nd sprocket. Wait until the digit turns into 2.
5. Repeat the same process until you reach the smallest sprocket, gear number.
6. Shift back to the gear 1.
7. Shift to the gear 2.
8. By pressing the **i** the calibration is confirmed.
9. By pressing the **i** you leave the settings menu.

Advanced settings menu

Advanced settings menu can be entered by holding the the **i** and **⊕** buttons. Navigation through the menu is identical to the basic one. This menu changes the setting of the motor power output during the shifting, this can be set to your requirements.

ShSYS – shifting system

RD – rear derraileur only (Apache)

RDfD – rear and front derraileur

IGH – internal hub gearing

PCAD RPM – pedalling cadence for optimal time of power decrease during the shifting (30-90 rev.)

RD1 MAX – maximum time delay while shifting the rear derraileur (x10ms)

RD2 MIN – minimum time delay while shifting the rear derraileur (x10ms)

FD1 MAX – maximum time delay while shifting the front derraileur (x10ms)

FD2 MIN – minimum time delay while shifting the front derraileur (x10ms)
IGH – time delay while shifting the internal hub gearing (x10ms)
PR RD – power decrease while shifting the rear derraileur (0-50%)
PR FD – power decrease while shifting the front derraileur (0-50%)
PR IGH – power decrease while shifting the internal hub gearing (0-50%)
RESET – restoring the factory setting (NO/YES)

Power decrease deactivation

If you want to deactivate the power decrease while shifting completely set the RD1 and RD2 to 0.

Bluetooth connectivity

Displays RM-1 and VHD-S18 can be connected with cell phone via bluetooth with Comp Drive app. Comp drive app is available on Google Play and App Store. Manual is included in the app.

Shifting sensor - Gearsensor.com

Shifting sensor allows you to shift smoothly, reduces noise and increases the drivetrain lifespan. Control unit decreases the power output during the shifting based on the actual cadence and chain position on the cassette.

Error reports

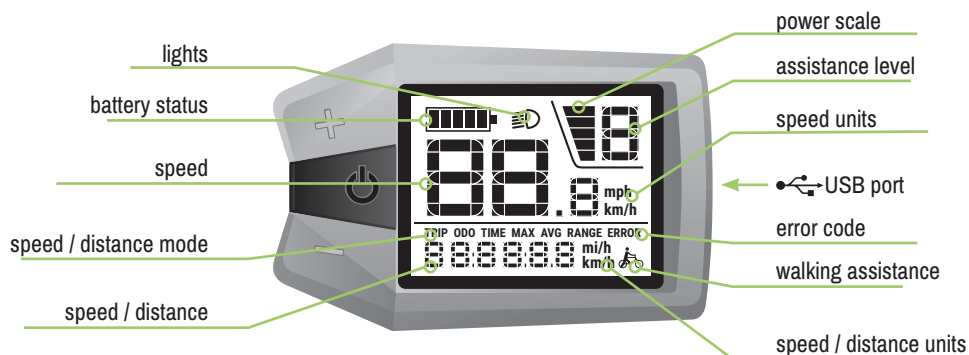
Code	Cause of issue
0x01	Motor communication issue (turn the system off and on again)
0x11	Torsion sensor issue (spin the crankset and turn the system off and on again)
0x13	Gear sensor issue (visit the service center)
0x15	Speed sensor issue (check the magnet and receiver position)
0x18	Cadence sensor issue (visit the service center)
0x20	Motor high temperature (decrease the level of assistance)
0x22	Temperature sensor issue (visit the service center)
0x25	Motor high temperature (decrease the level of assistance)
0x40	Motor issue (turn the system off and on again)
0x41	Battery or motor issue (charge the battery, turn the system off and on again)
0x42	Motor issue (turn the system off and on again)
0x43	Motor issue (turn the system off and on again)
0x80	Motor communication issue (check the connection between motor and display)
0x90	Torsion sensor issue (spin the crankset and turn the system off and on again)
0x92	Torsion sensor issue (visit the service center)
0xA1	Motor overheated (wait until the motor cools down)
0xA6	Motor overheated (wait until the motor cools down)
0xC2	Motor issue (turn the system off and on again)
0xD0	Battery issue (check the battery connection, turn the system off and on again)
0xE0	Battery issue (turn the system off and on again)
0xE5	Display issue (turn the system off and on again)

If one of mentioned issued codes appears often or appears one not listed above, please see your dealer.

CODAC - EBIKE CONTROL

CODAC

(Hawk E3/E5, Manitou E3/E5, Yamka E3/E5, Matto E3/E5, Matto E3/E5 Lady, Tate 24", Tate 27.5", Gaagii, Gaagii Lady, Wakita Tour, Wakita City, Wakita Grace, Wakan City)



Switching on - off

① Switch on the electric system supply on the battery

Activate the battery by pressing the button on its body.



frame battery



seat tube battery

② Switch on the LCD display of eBike

Press the button  on the display controller and hold it for 2 seconds.

Use the same method to switch off the electric system. To switch off the frame battery press the button for period of 4 seconds. Due to energy saving switches the system off automatically after 10 minutes of inactivity.



Assistance level setting

To change the assistance level in the range 0-5 shortly press button  . The highest assistance level is 5, level 0 is without the motor assistance.



In case of ride with low rotation speed and high assistance mode the motor can vibrate for a short term. In that event we recommend to reduce the assistance level immediately.

Off-road mode (only series E3)


To enter off-road mode select the assistance mode 5 and press button . The assistance mode indicators starts to display flashing digit 6. To confirm it press again button .

In this mode is the nominal motor performance up to 350W.



It can be used only outside the public roads!

Walking assistance

To activate the walking assistant press shortly and hold button  on the control display. This function simplifies to handle the eBike, usually during walk along the eBike. EBIke moves along in such a case by speed around 4 to 6 km/h. The walking assistance is deactivated as soon as the button is released.

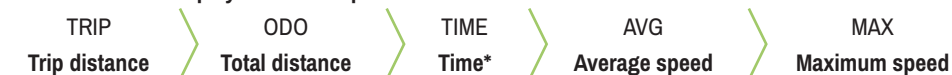


CAUTION: After activating the walking assistant do not try to prevent the bike to move. It can cause motor damage.

Change of riding data display




Displayed informations are changed by short pressing of button .

Informations are displayed in the sequence below:





*riding time (automatic start/stop)

Temporary data deleting

Temporary data (TRIP, MAX, AVG, TIME) is possible to delete by pressing and holding buttons  and . The display shows **rES**. Select option **Y** and confirm by pressing button .

Parameters settings

The parameters setting mode is activated by pressing button  and  and holding it for 2 seconds.

To change a parameter press button . To save the set parameter press button .

Un – unit setting (km/mile)




Ld – wheel perimeter setting in cm (max. +/- 5% from the original perimeter setting)

bL – background light display setting within 1-3 scope

rS – assistance setting – for each assistance level you can set up your own value in % from the maximum performance 250 W (this function is available only by models with Apache Power Silent Plus motor– Hawk E3, Manitou E3, Yamka E3, Matto E3)

Sd – automatic display shutdown setting within 1-10 minutes

Default setting

Default setting restart (factory setting) can be done by pressing and holding buttons  and . The display shows **dEF**. Select options **Y** and confirm by pressing button . As soon as default setting is completed there is **00** shown on the bottom line.

Turn on the lights (only if lights installed)

To turn on the front and rear lights press and hold button  for 1 second.

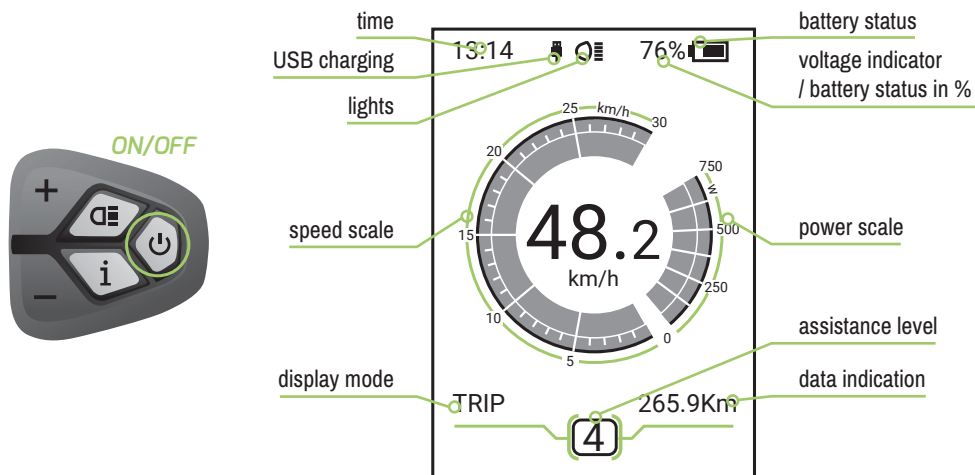
USB port

Display is equipped by Micro USB port to be able to charge mobile devices (5 V).

To connect your device with the charging connector please use adapter or cable with connector Micro USB-B.

TFT COLOUR - EBIKE CONTROL

(Hawk MX, Manitou MX, Yamka MX, Matto MX, Matto MX Lady, Wakita Tour MX, Wakan Tour MX, Wakita Grace MX, Wakan Grand MX)



Switching on - off

① Switch on the electric system supply on the battery

Activate the battery by pressing the button on its body.



frame battery





② Switch on the TFT display of the eBike

On the display controller press button  and hold it for 2 seconds.

Use the same method to switch off the electric system. To switch off the frame battery press the button for period of 4 seconds. Due to energy saving switches the system off automatically after 10 minutes of inactivity (this time can be set by user - see parameter setting below).


Assistance level setting

To change the assistance level in the range 0-5 shortly press button  . The highest assistance level is 5, level 0 is without the motor assistance. After switching on the display is the assistance level automatically set to level 1.



In case of ride with low rotation speed and high assistance mode the motor can vibrate for a short term. In that event we recommend to reduce the assistance level immediately.

Walking assistance

To activate the walking assistant press shortly and hold button  on the control display. This function simplifies to handle the eBike, usually during walk along the eBike. EBike moves along in such a case by speed around 4 to 6 km/h. The walking assistance is deactivated as soon as the button is released.



ATTENTION: After activating the walking assistant do not try to prevent the bike to move. It can cause motor damage.

Change of riding data display

Displayed informations are changed by short pressing of button **i**.

Informations are displayed in the sequence below:



*energy output is defined in kilocalories (kCal)

Switching on and off the display background light

To switch the display background light on or off press the button **□** for seconds. Under low light conditions switches the background light automatically. In case of subsequent switch off it has to be activated again manually. The background light intensity can be set by the user – see the parameters setting below.

Temporary data deleting

Temporary data (TRIP, MAX, AVG, TIME) is possible to delete in the parameters setting mode (see below). Temporary data are going to be deleted automatically as soon as the riding time 99:59 h is achieved. Temporary data don't become deleted by switching off the display.

Parameters setting

To enter the parameters setting mode press twice button **i** with 0,3 seconds interval. Use buttons **+** **-** to move between single menu items and to change parameters settings. Press button **i** to confirm your setting selection. To terminate the parameters setting mode press twice button **i** with 0,3 seconds intervals. In case of inactivity for 10 seconds the parameters setting mode is going to be terminated automatically.

Item Display Setting

Unit - units setting (km/miles)

Brightness - background light intensity setting (10, 30, 50, 75 or 100 %)

Auto Off - automatic shutdown setting (1-9 min)

Max Pas - number of assistance levels (3/5/9)

Power View - setting of performance indicator format (performance/torque moment)

SOC View - setting of battery indicator format (percentage/voltage)

TRIP reset - temporary data deleting (TRIP, MAX, AVG, TIME)

Wheel - setting of the wheel diameter in inches

Speed Limit - speed limit setting (10-25 km/h)

AL Sensitivity - light sensitivity setting (0 - 5, 0 = luminosity sensor off)

Password - activation, change and user password deactivation

Set Clock - time setting

Back - back

Information item

Battery info - total information on battery status and battery properties

Error Code - summary information on occurred error reports (max. 10 items)

Back - back

Error codes

Code	Problem cause
07	Protection from battery overvoltage (check the battery voltage).
08	Error of motor hall sensor (check the settings and connections with the motor).
09	Error of motor phase cable (check the settings and connections with the motor).
11	Error of unit control temperature sensor (check the settings and connections with the control unit).
12	Error of torque moment sensor (check the settings and connections with the motor).
13	Overheated battery (switch off the system and wait).
14	Overheated motor (switch off the system and wait).
21	Error of speed sensor (check the settings and connections with the motor).
22	Error of BMS interface (replace the battery).
30	Communication error (check connections of all connectors).

Should any of these errors remain or another error than defined appears contact your dealer.

LCD COMPACT - EBIKE CONTROL

(Matto E7, Matto E7 Lady, Gaagii, Gaagii Lady)



Switching on - off

① Switch on the electric system supply to the battery

Activate the battery by pressing the button on its body.



② Switch on the LCD panel of eBike

Press the button **M** and hold it for period of 2 seconds.

Use the same method to switch off the electric system. To switch off the frame battery press the button for period of 4 seconds. Due to energy saving switches the system off automatically after 10 minutes of inactivity.


Assistance level setting

To change the assistance level in the range 0-5 shortly press button  . The highest assistance level is 5, level 0 is without the motor assistance.



In case of riding at low revolutions and high assistance mode the motor can vibrate for a brief moment. In such case we recommend immediately reducing the assistance level.

Walking assistance

To activate the walking assistant press shortly and hold button  on the control display. This function simplifies to handle the eBike, usually during walk along the eBike. E Bike moves along in such a case by speed around 4 to 6 km/h. The walking assistance is deactivated as soon as the button is released.

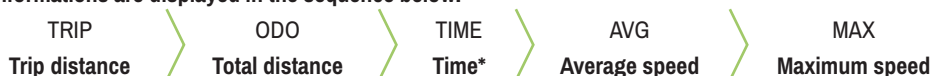


CAUTION: After activating the walking assistant do not try to prevent the bike to move. It can cause motor damage.

Change of riding data display

To change displayed informations press shortly of button .

Informations are displayed in the sequence below:



*riding time (automatic start/stop)

Temporary data deleting

Temporary data (TRIP, MAX, AVG, TIME) is possible to delete by pressing and holding button  and . Select option „YES“ and confirm by pressing button .

Parameters settings

The parameters setting mode is activated by pressing button  and  and holding it for 2 seconds.

Set Unit – units setting (km/miles)

Set wheel – setting of the wheel diameter in cm

Set Backlight – background light display setting within 1-3

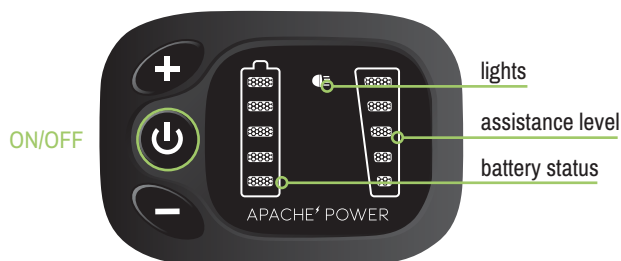
Service – service setting (only for service technicians, to access pin code required)

Switching on display background light

To activate the display background light press and hold button  for 1 second.

LED - EBIKE CONTROL

(Wakita Prime, Tanka, Tanka Nexus, Tocho, Tocho Nexus, Dakotah, Dakotah Nexus)



Switching on - off

① Switch on the electric system supply to the battery

Tanka, Tocho, Wakita Prime – witch on the battery using the switch in the upper part of the battery




Dakotah – switch on the battery using the switch in the rear side part of the battery

② Switch on the control panel of eBike

Press and hold the button  on the controller for 2 seconds.

Use the same method to switch off the electric system. Due to energy saving switches the system off automatically after 10 minutes of inactivity.


Assistance level settings

To change the assistance level in the range 0-5 shortly press button  . If you want to ride without any assistance just like on a common bike switch off the electric system using button .



In case of riding at low revolutions and high assistance level the motor can vibrate for a brief moment. In such case we recommend immediately reducing the assistance level.

Walking assistance

To activate the walking assistant press shortly and hold button  on the control display. This function simplifies to handle the eBike, usually during walk along the eBike. EBike moves along in such a case by speed around 4 to 6 km/h. The walking assistance is deactivated as soon as the button is released.



CAUTION: After activating the walking assistant do not try to prevent the bike to move. It can cause motor damage.

Turn on/off the lights

To turn on/off the lights press and hold button  for 1 second.

Battery status indicator

It is used to get an idea about the remaining battery capacity. The battery is fully charged if all LED diodes light. In case of lower battery voltage (lower actual capacity) and higher actual load (e.g. during uphill riding) the capacity displayed on the control panel may vary. The indicator place directly on the battery provides more accurate data about the battery capacity if needed.

BATTERY

RECOMMENDATION

The battery is the most expensive part of the eBike. Therefore pay increased attention to its charging, storage and handling. The battery contains some chemical substances which can be hazardous in case of incorrect application. Attention, lithium and its oxides are flammable when in contact with moisture.

Never dismantle the battery yourself. Incorrect procedure may cause a damage. At the same time there is a risk of injury as a consequence of ignition or even explosion. Keep in mind that by breaking the warranty seal you would cause warranty termination for the battery and all its parts.



Should the battery capacity be very low the motor operation is no longer smooth but irregular. In such case switch off the electrical drive system and continue further without its help as on common bike.

The battery warming-up is a common occurrence and it is not a defect. The battery is protected by temperature sensor and in case of excessive overheating (e.g. due to high ambient temperature) it switches off automatically. Wait for it to cool down to an operating temperature and then continue riding.

RECOMMENDATION

Prior to leaving the eBike in a public space always lock the battery and make sure you take the key with you. This way you prevent the risk of theft.

IMPORTANT

Prior any handling with the battery always switch it off first.

Frame battery

(Hawk MX, Manitou MX, Yamka MX, Matto MX, Matto MX Lady, Hawk E3/E5, Manitou E3/E5, Yamka E3/E5, Matto E3/E5, Matto E3/E5 Lady, Tate 24", Tate 27.5", Matto E7, Matto E7 Lady)

Switching on: Switch on the battery by pressing button in its upper part (switch off by pressing and holding button for period of 4 seconds).

Handling: To remove the battery turn the key by 180°. Hold the battery firmly and pull it upwards away from the holder. The battery insertion do in the reverse order. Be carefull when installing the battery back not to cause damage the bottom connector by careless handling.

Battery charge status indicator: by the help of LED indicator placed in the upper battery part that is activated by pressing and holding the button. The battery has full capacity in case that 4 LED diodes light on (3 in green, 1 in red). If only the red diode is on it means the battery is almost empty and it needs to be charged as soon as possible.



Seat tube battery

(Wakita Tour MX, Wakan Tour MX, Wakita Grace MX, Wakan Grand MX, Wakita Grace, Gaagii, Gaagii Lady, Wakita Tour, Wakita City, Wakita Prime, Wakan City, Tanka, Tanka Nexus, Tocho, Tocho Nexus)

Switching on: Switch on the battery using the switch in the upper part of the battery.

Handling: To remove the battery eject the saddle tube with the saddle from the frame. The lock is placed in the bottom part of the battery. Then turn the key to position UNLOCK and remove the battery by pulling it upwards holding the handle grip. The battery insertion do in the reverse order. Make sure the battery groove meets the guiding bar otherwise inserting downwards would not work. Insert the battery carefully to prevent from damage by strong impact against the connector. In order to secure the battery turn the key to position LOCK and remove the key.

Battery charge status indicator: by the help of LED indicator placed in the upper battery part that is activated by pressing the button. The battery must be switched on. The battery has full capacity if 4 LED diodes light on (3 in green, 1 in red). If only the red diode is on it means the battery is almost empty and it needs to be charged as soon as possible.



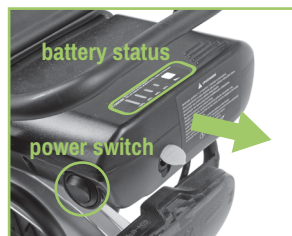
Rack battery

(Dakotah, Dakotah Nexus)

Switching on: turn on the switch placed in the rear part of the battery.

Handling: To remove the battery turn the key by 180°. Grasp the battery by the handle grip placed underneath the battery and pull it out the carrier. The battery insertion do in the reverse order.

Battery charge status indicator: by the help of LED indicator placed in the upper battery part that is activated by pressing the button. The battery must be switched on. The battery has full capacity if 4 LED diodes light on (3 in green, 1 in red). If only the red diode is on it means the battery is almost empty and it needs to be charged as soon as possible.



BATTERY CHARGING

RECOMMENDATION

Battery is ready for immediate use. To achieve maximum capacity we recommend however apply 3 full charging cycles at the beginning of the use. That means to discharge the battery by riding completely followed by full recharge at room temperature. Thereafter charge the battery any time without full discharging need.

Lithium batteries do not have memory effect therefore they can be charged anytime ideally after every use of the eBike. Considering the self-activated discharging that causes gradual capacity loss we recommend to check regularly the battery during long-term storage and recharge it in case of capacity drop to recommended level 60 - 80% of total capacity.

The battery can be charged directly on the eBike or you can remove it and charge separately. **Prior the charging always switch the battery off.**

Charge the batteries only in dry environment. The charging connector is not resistant to splashing water.

Charge the battery ideally at a room temperature (15-20 °C).

Charging at ambient temperature below 0 °C or higher than 40 °C can seriously damage the battery.

Process

Connect the charger to the electricity voltage source (230V) and wait until **red end green LED** diode lights up.

Now connect the charger to the battery. The green diode changes to red which indicates the ongoing charging process. The charging stops automatically as soon as the battery is charged. The diode signalling the charging turns in green again.

Interrupting the charging process does not damage the battery in any way.

RECOMMENDATION

Should you feel the total battery capacity dropped significantly it could have been caused by charging or operating in unsuitable climatic conditions.

In such case we recommend to perform 3 full charging cycles. That means to discharge the battery by riding completely followed by full recharge at room temperature.

IMPORTANT

Always use only the charger supplied with the eBike. Using different charger may cause damage to the battery or other parts of the electric system and result in the warranty termination as a consequence.

If the status indicator shows empty battery it still includes minimum voltage to protect it from damage. Such voltage is no longer sufficient for the eBike riding therefore charge the battery as soon as possible. Never leave battery discharged for a long time. It could cause permanent damage to the battery.

FACTORS AFFECTING THE EBIKE'S TRAVEL DISTANCE

The riding distance of the eBike is affected by many various factors and therefore it is very difficult to define the number of kilometres on one charge. The key factors include:

- the route profile (flat terrain vs. long sharp elevations)
- weather – temperature, headwind (ideal temperature is around 20°C, windless)
- weight of the rider and the load (higher weights = higher consumption)
- technical condition of the eBike (well-adjusted and greased eBike has lower resistance)
- pressure in tyres (underinflated tyres = higher consumption)
- riding style (the more power you spend, the lower consumption)
- selected assistance mode (higher mode = larger consumption)
- actual battery capacity (higher capacity = longer travel distance)

RECOMMENDATION

In order to achieve maximum travel distance take care of the technical condition of your eBike and keep the recommended tyre pressure. Battery condition is also very important therefore look after the battery according to this manual. Try to use the lowest assistance mode to ensure pleasant ride and prevent from excessive use of battery power.

By selecting correct gear you can increase speed by using the same power and extend the travel distance.

BATTERY TRANSPORT

The transport of batteries is subject to the regulations on hazardous goods. Undamaged batteries can be transported by private users on the roads without fulfilling further conditions.

During the transport by commercial users or transport by third persons it is necessary to observe special packaging requirements and marking (e.g. ADR regulations).

Send the batteries only if they don't have undamaged cover. Seal up the free contacts and pack the battery to prevent it from movement inside the package. Notify the delivery service of hazardous goods.

BATTERY STORAGE

Store the battery on dry and well-ventilated place, outside direct sunlight and other heat sources, at temperature within scope from -10°C to 40°C (optimum around 20°).

In case of storage in cool environment, it is necessary to warm-up the battery prior to ready-to-use-condition up to optimum operating temperature (20 °C).

Never leave the battery completely discharged. It could suffer permanent damage.

In case of long-term storage (for example during winter) keep the battery fully charged to approx. 60-80% of its capacity. Do not store it permanently connected to the charger or placed on your eBike.

Lithium batteries gradually discharge even if not used (approximately 5-10% capacity per month). Regularly check the battery and in case of capacity drop charge it up to the recommended level 60-80%.

RECOMMENDATION

Batteries Li-Ion are fully recyclable. After the termination of the battery service life you can hand it over to any collection yard or by your dealer.

ASSEMBLY AND SETTING UP EBIKE

Assembly and disassembly front or rear wheel with motor

Due to the need of transport or service there may be a situation that you might need to dismantle front or rear wheel with motor. At first disconnect the motor connector that is approximately 20 cm away from the motor axle. Then release the V-brake (if applied), change the gear to the smallest sprocket (applies to the rear motors), use spanner no. 18 to release the motor axle nut and remove the wheel from the dropouts. For reassembly proceed in the reverse order.



During the wheel assembly with the front or rear motor pay attention to correct position of the motor axle by moving downwards. The cable must lead to the motor from underneath. Otherwise water may get into motor and damage it.



During the connector assembly make sure the bolded arrows on both connector parts are pointing towards each other. Connect the connector with sufficient force. Insufficient inserting may cause the lack of motor function or the connector damage.



Installation of brake disc

For brake disc installation use only original screws from motor (M5x8). Inner parts of motor will be blocked in case of using longer screws than 8mm.

IMPORTANT

After each eBike assembly check the brakes functionality and make sure all thread connections are fastened properly.

EBIKE MAINTENANCE



Never soak the battery, charger or other electrical parts in water or other liquid.

Never wash eBike using pressure washer (WAP).

Prior to washing the eBike remove always the battery first.

Regular maintenance of the eBike

- Pay attention to regular maintenance of your eBike. It is the only way to achieve problem-free function, extend the service life and provide safety for yourself and other traffic participants.
- Keep the eBike and all components clean.
- Use only recommended and tested cleaning materials (e.g. brands Dirtwash or Pure from English manufacturer Weldtite – see under www.bplumen.cz/weldtite).
- Regularly grease the chain with suitable oils (e.g. brand TF2 from English manufacturer Weldtite – see under www.bplumen.cz/weldtite).
- If you are going to use your eBike also in the winter clean it carefully from salt after every ride. Pay increased attention to the battery contacts and other connectors of the electric equipment.
- During any eBike handling make sure to prevent from the damage of the electric system cables. Damaged cables are hazardous causing injury from electrical current.
- Regularly check correct fastening of all joints and the brakes functionality. Pay attention to all other components and make sure they are not damaged or worn. Search for cracks on the frame, fork, handlebar stem or handlebars, damaged cables, damaged battery cover etc.
- Prior to transporting outside a car or inside a car always remove the battery first.

RECOMMENDATION

If you want to prevent the inner tube defect we recommend using mastic as defect prevention (e.g. Dr. Sludge from English manufacturer Weldtite - see under www.bplumen.cz/weldtite).

RECOMMENDATION

To select the right child seat, bicycle trailer or bike car carrier seek professional advice with authorised Apache partner considering the drive system parts position, special frame shape and increased weight.

Service of Apache eBikes

In case of any technical problems with Apache eBike contact your dealer or any authorised partner of Apache.

Complaints about the eBike or battery shall be raised always to your dealer where you bought the eBike.

The nearest authorised partner search under www.apache-bike.cz.

IMPORTANT

Unprofessional handling with the eBike beyond the scope of this manual, use of non-original parts (e.g. different battery), intervention into the eBike construction or into the electrical system connection may cause damage of the eBike and warranty termination.

EBIKE WARRANTY

Warranty inspection

In order to ensure complete function of the eBike it is recommended to perform the warranty inspection. It should be performed commonly after 100 to 150 km of ride. During the inspection there is going to be checked the fastening of all joints, brakes and gears setting and naturally the electric system itself. The dealer should perform the inspection of the eBike and confirm it into the warranty certificate. We recommend to do the warranty inspection approximately within 3 months from the beginning of the warranty (date of sale) or after travelling 100 -150 km. If the warranty inspection is not performed the eBike can be permanently damaged by further use. In such case warranty may not be accepted.

Complaints procedure

- **Complaints about the eBike or battery shall be raised to your dealer.**
- In case of applying the complaint submit **your purchase document, warranty certificate with confirmed warranty inspection and recorded production serial number of the frame and battery**, give the reason for raising the complaint and description of the defect.

Warranty terms

24 months for the frame and the eBike components – it relates to the production defects and material defects except common wear from use.

12 months for the battery service life – nominal battery capacity does not drop below 70% of its total capacity during 12 months from the purchase of the eBike.

The guarantee period is extended by the period of time for which the product has been under repair service.

The warranty relates only to the first owner.

Warranty conditions

- The eBike can only be used to the purpose it was designed for.
- The eBike can only be used, stored and maintained according to this user manual.
- The eBike must pass the warranty inspection within 3 months from the warranty validity period.

The warranty rights terminate

- In case it was detected that the product damage was caused by the user (accident, unprofessional handling above the scope of this user manual, unprofessional intervention into the eBike construction or electric system connections, incorrect storage, etc.).
- Warranty period termination.
- In case of common wear from use (e.g. wear of tyres, chain, cassette, chainwheel, brake discs, and shoes, etc.).

Disposal of electric and electronic devices



Applied electric or electronic products (motor, battery, display, sensors, cabling) must not be disposed together with municipal waste. To dispose the product properly hand it over at designated collection yards where it will be accepted free of charge. By correct disposal of this product you shall help to maintain valuable natural resources as well as prevent from potential negative impacts on environment and human health. Seek further details from your local authority or from the nearest collection yard. Should be this type of waste not disposed properly penalties and other sanctions may be imposed according to national regulations.

DECLARATION OF CONFORMITY

Manufacturer:

BP Lumen s. r. o.,
Puškinova 546, Úpice 542 32
Czech Republic
CRN: 05565375, VAT no.: CZ05565375

BP LUMEN
od roku 1991

General designation of the product: eBIKE Apache (Apache pedelec)

Type of product marking:

Hawk MX, Manitou MX, Yamka MX, Matto MX, Matto MX Lady, Hawk E3/E5, Manitou E3/E5, Yamka E3/E5, Matto E3/E5, Matto E3/E5 Lady, Tate 24", Tate 27.5", Matto E7, Matto E7 Lady, Wakita Tour MX, Wakan Tour MX, Wakita Grace MX, Wakan Grand MX, Wakita Grace, Gaagii, Gaagii Lady, Wakita Tour, Wakita City, Wakita Prime, Wakan City, Tanka, Tanka Nexus, Tocho, Tocho Nexus, Dakotah, Dakotah Nexus

Model year: 2018

Function: bike with supplemental electric motor

.....

The manufacturer declares hereby that the products defined above comply with all respective regulations.

2006/42/EC - directive for machine equipment

2014/30/EU - directive on electromagnetic compatibility

Applied technical standards and specifications:

EN15194+A1:2015 - Electrically power assisted bicycles (EPAC bikes)

ISO 4210-2:2015 - Bicycles - Safety requirements for bicycles - Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles

.....

In Úpici on 10. 11. 2017

Authorised person: Pavel Bárta m.p., Managing Director



APACHE[®]
BICYCLES