EN

READ IT RIDE IT LOVE IT

Bicycle Owner's Manual
E-bikes

LEVIT

Welcome to the LEVIT family!

We have been assembling and selling bicycles in Hawk Mountains for more than 30 years, and during that time we believed that riding a bike is key to fun and transportation in the overcrowded and ever-faster world that we live in.

We make every bicycle in such way that it provides you with an excellent riding experience. We select very reliable components, and we physically test them ourselves. That's because your satisfaction is our goal. The goal of your journey is then up to you, regardless of whether you are after a fast trip to work, a trip with your family, or finding new adventures in the country.

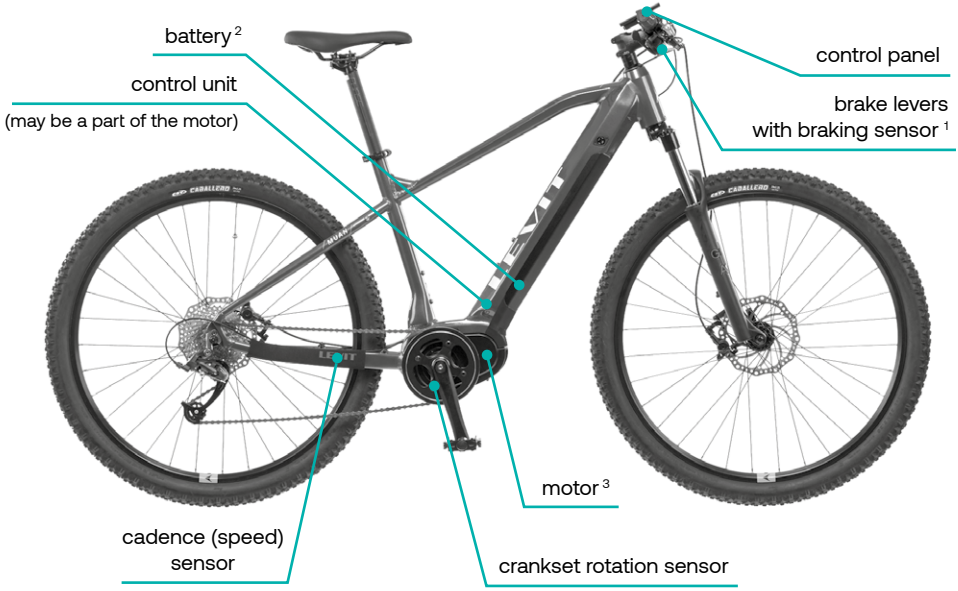
If you choose a bike with a motor to assist you, or you use the strength of your own body, we would like to wish you thousands of happy miles.

Contents

What is an e-bike and what does it consist of

Every bicycle that is equipped with an electric motor, control unit, and a battery is considered to be an e-bike. The drive unit helps the rider with pedalling and provides assistance. In general, the motor assistance can be activated only if the rider themselves actively pedals (spins the crankset forwards). The crankset motion is monitored by a special sensor located in the bottom bracket. The maximum speed of an e-bike with motor assistance enabled is approx. 25km/h. When this speed is reached, the motor switches off automatically, and you ride as on a regular bicycle. If the battery gets flat, or if you switch off the motor, you can carry on to your destination using your own force without any assistance.

The electric motor can be engaged by pushing the - button on the control panel, however, it will only reach the maximum speed allowed of 6km/h. This function is called Walk Assistance, and you can take advantage of whenever you ride or walk with the bicycle. It is impossible to reach higher speeds without the rider being actively involved in pedalling. Each e-bike whose characteristics and features are compliant with the EN 15194-1 standard, is considered a regular bicycle from the perspective of road safety legislation. No driving licence is required to use such an e-bike, you can ride it on cycling paths or roads, wearing a bicycle helmet is recommend for all e-bike users regardless of age.



LEVIT e-bike technical data:

Rated motor power	250 W
System voltage	36 V
Operating temperature	0 / +40 °C
Skladovací teplota	10 / +40 °C
IP 54 Rating	
(protection against contamination from limited amounts of dust and from water sprays from all directions)	

1 Only models equipped with mechanical brakes.
2 The battery can be located on the frame, behind the seat tube or in a rack.
3 The motor may be located in the rear wheel, front wheel or in the bottom bracket.

Basic information for use of an e-bike

IMPORTANT: Always check functionality of brakes and battery charge status before every ride. Always use a bicycle helmet while riding on an e-bike!

Riding your e-bike

Riding an e-bike is the same like riding a regular bicycle. You only need to sit on the bicycle, gain some speed and pedal. Once the crankset is spun, the motor is automatically activated, it works according to the assistance mode selected. If you use the brakes, the motor is disabled automatically. This is not the case of LEVIT bicycles equipped with hydraulic disc brakes as these brakes do not have all necessary sensors.

Motor on these models are switched off within two seconds after you stop pedalling. Once you reach the speed of 25km/h, the motor is disabled automatically, and will be reactivated only after the speed has dropped below this threshold. The motor is not engaged also if you do not pedal, or if you spin the crankset in reverse direction.

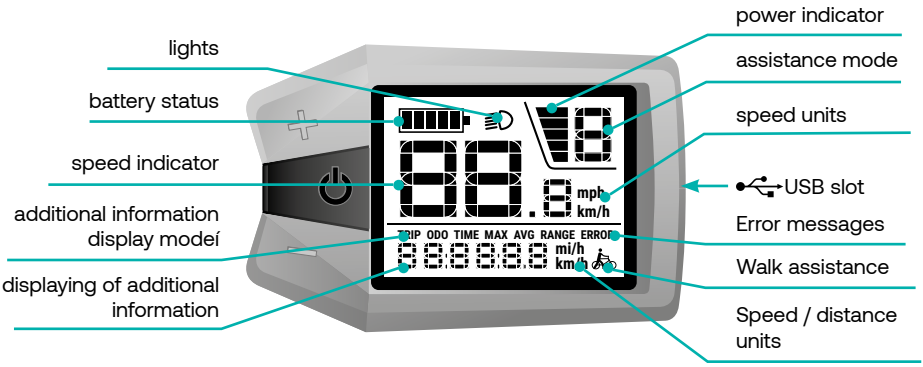
IMPORTANT: A long ride with low rotation rate of the motor and high level of assistance may result in motor overheating and even damage, if the motor is under excess load. In such cases, it is highly recommended that you decrease the assistance.

The bicycle function may be impacted by external electromagnetic elements.

RECOMMENDATION: If you encounter problems with shifting lower or higher gears, we recommend additional installation of “Gear Sensor” that disables the motor shortly during shifting. Therefore, the change of gears does not occur when the motor is fully engaged, which is good not only for the actual motor, but for all drivetrain components.

CODAC – e-bike control

Calvia HD, Chilo 1, Muan HD, Musca HD



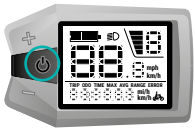
Switching On/Off

1. Switch on the electric system power on the battery
Activate the battery by pushing the button on its housing.


Battery placed on the rear side of the seat tube


integrovaná baterie

2. Switch on the LCD panel of the e-bike.
Push the ⏻ button on the display control and hold it pushed for 5 seconds. The electric system is switched off in the same way. Hold the button pushed for 4 seconds to switch off the frame battery. The system will automatically switch off after 10 minutes of inactivity to save energy.



Setting the assistance mode

To change assistance mode in the range of 0-5, briefly push the ⊖ ⊕ button. The highest level of assistance is indicated with the number 5, the level with indication 0 means no assistance of the motor.

WARNING: The motor may vibrate for a short period of time during a low revolution ride with a high degree of assistance set. If this happens, we recommend that you immediately change the assistance mode to a lesser degree.

Walk Assistance

Walk Assistance is activated by pushing and holding the ⊖ button on the control display.
The assistance mode ranging from 1 to 5 must be selected to activate the Walk Assistance mode.
The purpose of this function is to make manipulation with the e-bike easier for its users. Typically, it is used during walking with the e-bike. In this case, the e-bike speed will be between 4 and 6km/h.
The Walk Assistance is disabled immediately after you release the button.

WARNING: Do not try to hinder the bicycle motion. In such case, the motor may suffer damage.

Changing the additional information display mode

change of information displayed is carried out by a short pushing of the button ⏻.

Information is displayed in the following order:

TRIP	ODO	TIME	MAX	AVG
Distance of your trip	Total distance	Time*	Maximum speed	Average speed

Deletion of temporary data

Push the ⏻ button twice to delete temporary data (trip, time, avg, max). The display will show **rES**. Select possibility Y using ⊕ and ⊖ buttons and confirm by pushing the ⏻ button.

Setting of parameters

Push the ⏻ button twice to enter the parameters setting mode. Use ⊕ and ⊖ buttons to change a parameter. Push the ⏻ button to save the set parameter.

Switching on lights (only if lights are installed)

Front and rear lights are switched on by pushing and holding the ⊕ button for 1 second.

USB connector

The display is equipped with a MicroUSB connector that can be used to recharge mobile devices (5V/0.5W). Use an adapter or a MicroUSB-B connector cable to connect your device to the charging connector.

Explanatory notes:

rES - deletion of daily distance
Un - unit setting (km / miles)
Ld - setting of wheel circumference in cm (max. +/- 5% from the default circumference setting)
bL - display backlighting setting, range 1-3
Ls - speed limit; the value of 20 equals the max. assisted speed of 25 km/h
SPS - signal of the speed sensor
Cr - the value of the current

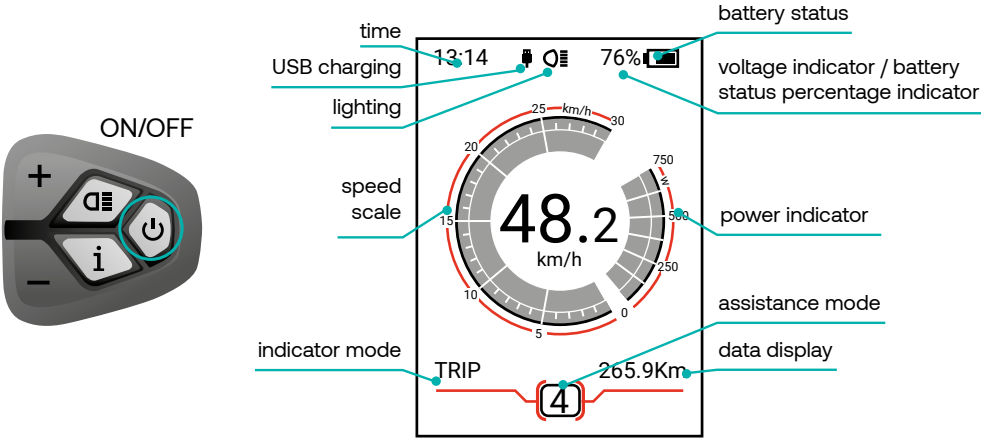
Error messages

Code	Cause of the problem
0X0000	no error
0X0001	BMS or surge error
0X0002	control unit overheated
0X0004	motor feed
0X0008	Hall probe - motor
0X0010	motor overheated
0X020	protection against undervoltage
0X0100	speed too high
0X0200	communication error - battery
0X0400	PAS sensor
0X0800	speed sensor
0X1000	communication error - display

If an error persists, or if a different error than the one mentioned here is displayed, contact your retailer.

TFT COLOUR – e-bike control

Muan MX, Musca MX



Switching On/Off

1. Switch on the electric system power on the battery
Activate the battery by pushing the button on its housing.


Battery placed on the rear side of the seat tube


integrovaná baterie

2. Switch on the TFT panel of the e-bike.
Push the ⏻ button on the display control and hold it pushed for 2 seconds. Switching off the system is carried out in the same way. Hold the button pushed for ⏻ 4 seconds to switch off the frame battery. The system will automatically be disabled after 5 minutes of inactivity to save energy (this period can be set by the user – see parameter setting below).

Setting of assistance mode

To change the assistance mode in the range of 0-5, briefly push the ⏻ button. The highest level of assistance is indicated with the number 5, whilst the no assistance level is indicated with the number 0. The assistance mode is set to 1 after the display is switched on.

WARNING: The motor may vibrate for a short period of time during a low revolution ride with a high degree of assistance set. If this happens, we recommend that you immediately change the assistance mode to a lesser degree.

Walk Assistance

The Walk Assistance is activated by pushing the ⛔ button that sets the assistance to Walk Assistance mode (the Walk Assistance mode symbol will be displayed). Push the ⛔ button again, and the assistance will be activated until you release the button. The purpose of this function is to make manipulation with the e-bike easier for its users. Typically, it is used during walking with the e-bike. In this case, the e-bike speed will be between 4 and 6km/h. The walk assistance is switched off immediately after you release the button.

WARNING: Do not try to hinder the bicycle motion. In such case, the motor may suffer damage.

Changing the speed and distance indicator modes

The change of information displayed is carried out by a short pushing of the button ⓘ.

TRIP	ODO	MAX	AVG	RANGE	TIME
Distance of your trip	Total distance	Maximum speed	Average speed	Remaining range	Total ride time

Switching on/off the display backlight

The display backlight is switched on/off by pushing the ⊕ button and holding it pushed for 2 seconds. The display backlight is turned on automatically in low light. If it is disabled automatically, it must be reactivated manually. The backlight intensity can be adjusted by the user – see the parameters setting below.This sequence will turn on or off the front/rear lights of Tour models.

Deletion of temporary data

Use the method described in the paragraph on parameters settings to delete temporary data. The temporary data can be deleted via “Display setting” and “TRIP reset” (once the TRIP reset item is highlighted, push the ⊕ button, and set to “YES” value using ⊕ ⊖ buttons. After you have confirmed your selection by the I button, the temporary data will be deleted. The temporary data will also be deleted automatically after reaching the ride time of 99:59 hours. The temporary data will not be deleted in case the display is switched off.

Setting of parameters

Push the ⓘ button twice in the space of approximately 0.3 seconds to enter the parameter setting mode. Use the ⊕ ⊖ button to navigate through individual menu items and to change setting of parameters. Push the ⓘ button to confirm your selection. push the ⓘ button twice in the space of approximately 0.3 seconds to exit the parameter setting mode. The parameters setting mode will be disabled automatically after 10 seconds of inactivity.

Display Setting Unit item

Unit – setting of units (km / miles)
Brightness – setting of display backlight intensity (10, 30, 50, 75 or 100%)
Auto Off – sets the automatic display switching off (1–9 min)
Max Pas – setting of number of assists (3/5/9)
Power View – setting of power indicator format (power / torque)
SOC View – battery status indicator format setting (percentage/voltage)
TRIP reset – deletion of temporary data (TRIP, MAX, AVG, TIME)
AL Sensitivity – lighting sensitivity (0 – 5.0 = light sensor switched off)
Set Clock – clock setting
Back – return

Information item

Items in the settings may differ based on the display software version currently used.

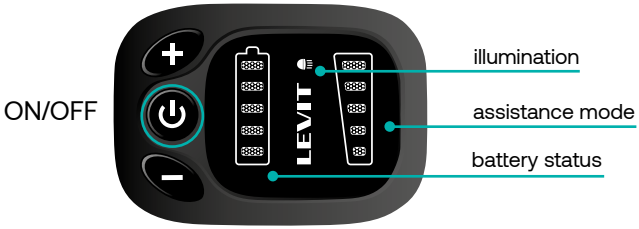
Battery info – complete information about the battery status and features
Error Code – complete information about error messages displayed (max. 10 items)
Back – zpět

Error messages

Code	Cause of the problem
07	Protection against battery surge (check the battery voltage).
08	Error of the motor's Hall probe (check settings and connection with motor).
09	Error of the motor's phase cable (check settings and connection with motor)
11	Error of the control unit temperature sensor (check settings and connection with the control unit).
12	Error of the torque sensor (check settings and connection with motor)
13	Battery temperature too high (switch off the system and wait).
14	Battery temperature too low (switch off the system and wait).
21	Error of the speed sensor (check settings and connection with motor)
22	BMS interface error (replace the battery).
25	Torque sensor error (remove the battery and replace it; if the error persists, have your e-bike serviced).
30	Communication error (check that all connectors are connected correctly).

LED – e-bike control

Chilo 3, Tumbi



Battery placed on the rear side of the seat tube

Switching On/Off

1. Switch on the electric system power on the battery

Activate the battery by pushing the button on its housing.

2. Switch on the control panel of the e-bike.

Push and hold the ⏻ button on the control pushed for 5 seconds. The system is switched off in the same way. The system will automatically switch off after 10 minutes of inactivity to save energy.

Setting of assistance mode

Change the assistance mode in the range of 1-5, push the ⊕ ⊖ button. If you want to enjoy an unassisted ride, switch off the electric system by pushing the ⏻ button.

WARNING: The motor may vibrate for a short period of time during a low revolution ride with a high degree of assistance set. If this happens, we recommend that you immediately change the assistance mode to a lesser degree.

Walk assistance

Walk Assistance is activated by pushing and holding the ⊖ button. The assistance mode ranging from 1 to 5 must be selected to activate the Walk Assistance mode. The purpose of this function is to make manipulation with the e-bike easier for its users. Typically, it is used during walking with the e-bike. In this case, the e-bike speed will be between 4 and 6km/h. The walk assistance is switched off immediately after you release the button.

WARNING: Do not try to hinder the bicycle motion. In such case, the motor may suffer damage

SWITCHING LIGHTS ON / OFF

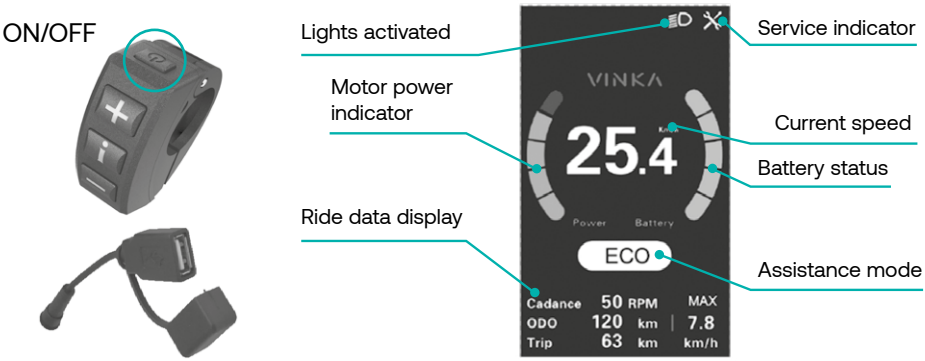
Push and hold the ⊕ button for 1 second to switch the lights on / off. ⏻ will light up on the display.

BATTERY STATUS INDICATOR

Shows the remaining battery capacity. If all LED diodes are lit, the battery is fully charged. In the battery has lower voltage (lower current capacity) and higher current load (e.g. during an ascent), the display of capacity may fluctuate in the control panel. A more precise reading is provided by the indicator located directly on the battery.

VINKA DC40 – e-bike controla

All Vinka models



Included with the bicycle is this USB adapter that is intended to connect to the rear of the display to provide power to other devices. All displays mounted on LEVIT bicycles (with the exception of LED displays) have a USB connector that provides power to external devices such as mobile phones, GPS and others.

Switching On/Off

1. Switch on the electric system power on the battery

Activate the battery by pushing the button on its housing.

2. Switch on the control panel of the e-bike.

Push the ⏻ button on the display and hold it for several seconds. The system is switched off in the same way. Hold the button pushed for 4 seconds to switch off the frame battery. The system will automatically switch off after 15 minutes of inactivity to save energy (this period can be set by the user – see parameter setting below).

Setting of assistance mode

To change assistance mode, briefly push the ⊕ ⊖ button. The highest level of assistance is indicated as BOOST, whilst the no assistance level is indicated as OFF. The assistance mode is set to ECO mode after the display is switched on.

WARNING: The motor may vibrate for a short period of time during a low revolution ride with a high degree of assistance set. If this happens, we recommend that you immediately change the assistance mode to a lesser degree.

Walk Assistance

The Walk Assistance is activated by pushing the ⓘ button and subsequently pushing and holding the ⊖ button that sets the assistance to Walk Assistance mode (the Walk Assistance mode symbol 🚶 will be displayed). The Walk Assistance will be activated until you release the ⊖ button. The purpose of this function is to make manipulation with the e-bike easier for its users. Typically, it is used during walking with the e-bike. In this case, the e-bike speed will be between 4 and 6km/h. The walk assistance is switched off immediately after you release the button.

WARNING: Do not try to hinder the bicycle motion. In such case, the motor may suffer damage.

Changing information on the display

The change of information displayed is carried out by a short pushing of the button ⓘ. This changes the maximum speed and average speed information only. The remaining information is displayed constantly.

Deletion of temporary information (TRIP, MAX, AVG):

Temporary information can be reset by pushing the ⊕ and ⊖ buttons simultaneously.

The display shows the following information:

CADEDENCE	ODO	TRIP	MAX	AVG
Pedalling cadence	Total distance	Distance of your trip	Maximum speed	Average speed

Switching on the light:

It is possible to switch on the lights by pushing and holding the ⊕ button for a few seconds. This will darken the display slightly. The display is also darkened automatically in low ambient light, so that the rider is not blinded by the light of the display.

Setting:

The settings screen can be accessed by pushing the ⓘ and ⊖ buttons simultaneously. Use the ⊕ ⊖ button to navigate through individual menu items and to change setting of parameters. Push the ⓘ button to confirm your selection. Push the ⓘ and ⊖ buttons simultaneously to exit the mode, or confirm the Exit item.

Wheel size – information on diameter of wheels set (in inches). (Cannot be set by users.)
Walk Speed – selection of the Walk Assistance's maximum speed. (The following range can be set: 3-6km/h).
Speed Limitation – information on the maximum speed of the motor assistance (cannot be set by users).
LCD Brightness – Selection of display backlight level. (Can be set from Level 1 to Level 5)
Unit Type – Selection of unit of speed (km/h or mph can be selected)
Asistent Indicator – Setting of the assistance level display type.
(Verbal or numeric display can be selected).
GSGI – Gearsensor calibration
About – Software information

Error messages

Code	Cause of the problem
90	Zero torque error
11	Torque beyond the range
92	Torque sensor error
13	Gearsensor error
15	Speed sensor error
18	Cadence error
20	Control unit overheated – warning
A1	Control unit overheated – error
22	PCB sensor error
25	Motor overheated – warning
A6	Motor overheated – error
A7	System Error
80	communication lost
32	Remote communication lost
01	Incorrect communication data
40	Motor error
41	High peak current of the motor
C2	Motor phase failure
43	High direct current of the motor
D0	High battery voltage
51	Low battery voltage
52	High battery current
E0	Incorrect battery version
E5	Incorrect display version

Battery

Recommendation

Battery is the most expensive part of the whole e-bike. Therefore, it is advisable to pay maximum attention to its recharging, storage and manipulation. The battery contains certain chemicals that may be dangerous if the battery is handled or used incorrectly. Be careful, lithium and its oxides are flammable in contact with humidity.

Never dismantle the battery. Use of incorrect procedure might easily damage it. At the same time, there is a risk of injury due to ignition or possible explosion. Bear in mind that tampering and disturbance of the warranty seal results in warranty for the battery and all its parts becoming invalid.

WARNING: If the battery capacity is too low, the motor will cease to run smoothly and will show irregularities in its operation. In such a case, switch of the electric drive system and continue without its assistance as if you are riding a regular bike. Battery being hot is a normal feature, and is not indicative of any fault. The battery is protected by a temperature sensor that will disable it automatically if it is overheated (e.g. when the ambient temperature is too high). Wait until the battery cools down to the operation temperature and then resume your ride.

WARNING: The power of the motor decreases as the battery charge level decreases.This means that it can provide half of its original power if the battery has a 30% charge. This may change depending on the motor type.

Battery lock

Always lock the battery and take the key with you whenever you leave your e-bike unattended at a public place. This will prevent theft of the battery. Keep the battery always locked while riding! The battery lock does not serve as a mere protection of the battery from being stolen, but ensures its safe position. Batteries without rocker switches are switched off automatically after 30 minutes of inactivity (the time may differ depending on battery type). The battery is not capable of detecting low consumption of energy by the display, and so it may happen, that the battery (and the whole system with it) is switched off automatically during a long unassisted ride. You can prevent this from happening by activating the assistance for a short period of time.

ATTENTION: Always switch the battery off before manipulating with it.

Integrated battery

Muan, Musca, Nefel, Svarog, Sokor, Kingit, Tengu, Corax, Arian, Columba, Calvia

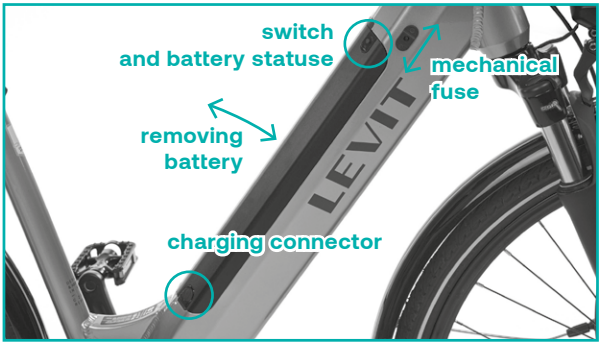
Switching on: the battery is switched on by a button located on its upper part.

Manipulation: turn the key 180° to remove the battery. Move the release / lock lever towards the handlebars, firmly grab the top end of the battery and release it by pulling gently upwards. Insert the battery by placing it over the contacts on its lower part, then push the upper part until you hear the lock latch click. Now move the release / lock lever back towards the saddle. Turn the key to lock the battery.

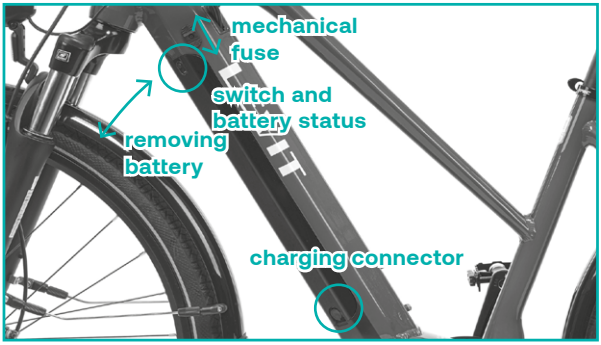
Switching off: the battery is switched of by pushing and holding the button for the period of 5 seconds.

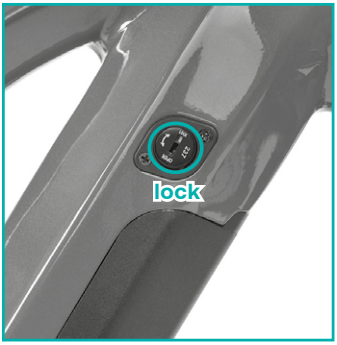
How to find out about capacity of the batterye: the battery offers a simple indication using three colours of LED diodes – red diode means capacity of 0–20%, green equals capacity of 20–80%, and the blue colour indicates charge of 80–100%. More detailed information are provided on the display.

Top location



Bottom location





Seat tube battery

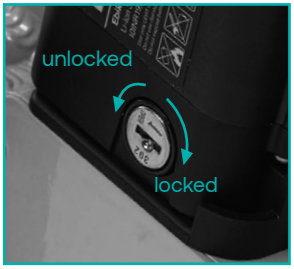
Chilo, Tumbi

Switching on: Switch the battery using a switch on its upper part.

Manipulation: Remove the seatpost with saddle first to be able to remove the battery from the frame. The lock is located in the lower part of the battery. Then, turn the clock into the UNLOCK position, and remove the battery by pulling its handle up.

The battery is installed in reverse order. The groove of the battery must be placed onto the guiding edge, otherwise it will be impossible to slide it down completely. Slide the battery carefully, so that its connector is not damaged by a sharp impact. Turn the key to the LOCK position to secure the battery. Remove the key.

How to find out about capacity of the battery: by the means of a LED indicator located in the upper part of the battery. It is activated by pushing the button. The battery must be switched on. The battery is at its full capacity if 4 LED diodes are lit (3 green, 1 red). If only red LED diode is on, the battery is nearly depleted, and must be recharged as soon as possible.



Battery charging

RECOMMENDATION: Lithium batteries do not have the memory effect, so they can be charged any time, ideally after every ride. Due to self-acting discharge of the battery that causes gradual loss of capacity, it is recommended to check the battery regularly during a long-term storage, and to recharge the battery if a drop below the recommended level of 60-80% of the its full capacity is found out.

Battery can be recharged both either directly on the bicycle, or it can be removed and recharged separately from the e-bike. Always switch the battery off before recharging it. Battery must be always charged in dry environment. The charging connector is not resistant to splashing water. Room temperature (15–20°C) is ideal for battery recharging. Recharging the battery in ambient temperature lower than 0°C or higher than 40°C may seriously damage the battery.

Method

First, connect the charger to the battery and then to the mains supply (230V). Wait until the LED light on the charger lights up red. This signals that recharging is in progress. The recharging is stopped automatically once the battery is fully recharged. Still, we recommend that you unplug the charger from main supply and the battery immediately after recharging is completed. The diode that indicates recharging will light green then. Interrupted recharging does not cause damage to the battery in any way.

RECOMMENDATION: If you feel that the total capacity of your battery has decreased significantly, this may have happened due to recharging the battery or operating the bicycle in unsuitable weather conditions.

RECOMMENDATION: Always use the charger supplied with the e-bike! Using a different charger may damage the battery and/or other parts and components of the electrical system, which results in the warranty provided by the manufacturer becoming void. If the status indicator indicates that the battery is flat, it still has some minimum voltage that protects it from damage. This voltage is no longer sufficient to allow actuation of the e-bike, and so it is highly advisable to recharge the battery as soon as possible. Never leave the battery discharged for an extended period of time. This could damage it permanently.

Factors that influence e-bike range

The range of your e-bike is influenced by many various factors, and therefore it is very difficult to stipulate the distance an e-bike may travel with one fully charged battery. The key factors are:

- trip profile (flat profile vs. long and steep climbs)
- weather – temperature, head wind (ideal temperature is approximately 20°C, no wind)
- weight of the rider and the cargo (the greater the weight, the greater the consumption)
- technical condition of the e-bike (correctly adjusted and properly lubricated e-bike has less resistance)
- tyre pressure (low pressure = greater consumption)
- riding style (the more force of your own is used, the less is used by the motor)
- selected assistance mode (the higher the mode, the greater the consumption)
- current battery capacity (greater capacity = greater range)

DOPORUČENÍ: In order to achieve maximum range possible, maintain your e-bike it proper condition and maintain correct pressure in tires. The state of your battery is important, too, and so it is necessary that you take proper care of it according to this manual. Try to utilize the lowest assistance mode so that riding your bicycle feels nice, but does not use the battery energy unnecessarily at the same time. You can increase your speed while exerting the same force by choosing the correct gear.This will also increase your range.

Transporting the battery

Transportation of the battery must comply with guidelines and provisions related to hazardous materials. Undamaged batteries can be transported on roads by private users without them having to comply with any other conditions. When commercial forwarders or third parties are used for transportation of the battery, special requirements regarding

packaging materials and labelling must be adhered to (such as ADR directives). Batteries can be forwarded only on condition that their housing has not been damaged. Place a tape or sticker over naked contacts, and pack the battery so that it does not move in its packaging. Notify the forwarder of the fact that the parcel contains a hazardous material.

Battery storage

The battery must be stored at a dry and well-ventilated place, away from direct sunlight and other heat sources. The storage temperature must range from –10 to 40°C (ideally 15–20°C).

If the battery was stored at a cold place, it is necessary to leave it warm up naturally to optimum operation temperature (20°C) before using it on the e-bike.

Never leave the battery completely flat. This could cause its permanent damage. If it happens that the battery gets flat, first recharge it so that it has half of its capacity, and then leave it to cool down. Once the battery has cooled down, resume the recharging to achieve full capacity.

Keep your battery charge status in the range of 60-80% when not using the e-bike for a long time
(for example during winter). Do not store it permanently placed in the charger, or locked in the e-bike.

Lithium batteries discharge gradually when not in use (about 5-10% of its capacity per month). Therefore, check your battery regularly, and if you notice that its capacity has dropped, recharge it so that it has the recommended capacity of 60-80%.

RECOMMENDATION: Li-ion batteries are fully recyclable. After its lifespan has elapsed,you can take it to any collection point, or to the retailer where you bought it.

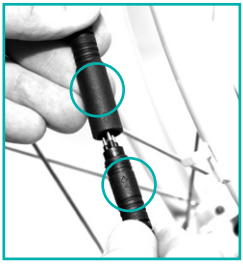
Installation and adjustment

Installation and removing of a wheel with a hub motor.

A situation may occur due to transport or service in which it may be necessary to remove the wheel with motor. First of all, disconnect the motor connector that is located about 20 cm from the inlet into the motor. Now release the brake caliper (if it is engaged), shift to the smallest sprocket (in case of motors placed in the rear of the bicycle), loosen the motor nuts with wrench no. 18 and remove the wheel from the dropouts. Proceed in reverse order to reinstall the wheel.

WARNING: When installing the wheel with motor, it is necessary that the axle is positioned in such a way that the notch is oriented downwards. The cable must enter the motor from below. Otherwise water could leak into the motor and damage it.

WARNING: When connecting the connector, pay attention to the fact that the arrows on both parts of the connector must be directed towards one another. Connect the connector using sufficient force. Insufficient connection may result in non-functional motor or damage to the connector.



Brake disc installation

Use original bolts from the motor (M5×8) when installing the brake disc. If you use bolts whose length exceeds 8mm, the inner part of the motor is blocked.

RECOMMENDATION: Li-ion batteries are fully recyclable. After its lifespan has elapsed, you can take it to any collection point, or to the retailer where you bought it.

E-bike maintenance

WARNING: Never immerse battery, battery charger or other electric components into water or any other fluid. Never use pressurized water (WAP) to wash your e-bike. Remove the battery before you start washing your e-bike.

Regular e-bike maintenance

- Do not forget to regularly take care of your e-bike. Only through regular care
- can you achieve its troublesome operation, prolong its lifespan, and assure safety not only for yourselves, but for other traffic participants, too.
- Keep your e-bike and all its components clean.
- Use only recommended and time-tested cleaning agents (such as Dirtwash or Pure from Weldtite – more on www.bplumen.cz/weldtite).
- Lubricate the chain with suitable lubricants regularly (e.g. TF2 lubricants made by
- Weldtite – more on www.bplumen.cz/weldtite).
- If you use your e-bike in winter, do not forget to remove any traces of soil from it after every ride. Pay increased attention to battery contacts and other electric contacts and sockets.
- Whenever you manipulate with the e-bike, pay attention not to damage its electric system cables. Damaged cables pose a risk of electrical injury.
- Regularly check that all joints are tight and brakes are fully functional. Also, pay attention to all other components and make sure that they are not damaged or worn. Look for any cracks in the frame, fork, stem, or handlebars, damaged cables and hoses, damaged battery housing etc.
- Always remove the battery before transporting your e-bike in a car or on its roof.

RECOMMENDATION: If you want to prevent punctures to the inner tube, we recommend that you use a sealant (such as Dr. Sludge made by Weldtite. More on www.bplumen.cz/weldtite).

RECOMMENDATION: Due to the position of drivetrain parts, particular shape of the frame and greater weight, it is advisable to consult staff at an authorized LEVIT partner when selecting a bike seat for a child, a cart to be mounted behind the e-bike, or bike racks for car roofs.

IMPORTANT: Due to the position of drivetrain parts, particular shape of the frame and greater weight, it is advisable to consult staff at an authorized LEVIT partner when selecting a bike seat for a child, a cart to be mounted behind the e-bike, or bike racks for car roofs.

Frequently asked questions (FAQ)

How should I take care of my battery?

Regular rides on your e-bike are the best way to take care of your battery. The more you ride the better. In order to achieve the longest lifespan, the optimum battery status ranges from 20 to 80% of full charge. It is not necessary to charge your battery before you ride your bicycle for the first time: you can do it straight away! Try to return home from your rides with at least 10% of remaining battery capacity.

If the battery is flat, first recharge it so that it has approximately half of its full capacity, leave it to cool down and then recharge it fully. In winter, store the battery at a dry place with ambient temperature of at least 15°C. Bear in mind that the battery should have approximately half of its full charge. Then, it will be sufficient to check the battery status once a month, and if it happens that its capacity dropped, leave in the charger for about an hour.

How many kilometres can I ride on my e-bike?

E-bike range can never be stipulated precisely or guaranteed. It always depends on several factors, such as rider's weight, trip profile, use of assistance during the ride, weather conditions, technical state of the e-bike etc. If you are looking at a long trip and you are not sure when are you back home, play it safe and take the charger with you.

What is the lifespan of the battery?

Similar to range, lifespan cannot be determined precisely. There is a general rule, though: the more you ride the e-bike, the longer is the lifespan of the battery. It is only about discharging and recharging it regularly. It can be said that if the battery is taken good care of, its lifespan can exceed 4-5 years. It gradually loses its capacity in this time.

What if the battery stops working?

When the battery reaches the end of its projected lifespan, it is necessary to replace it with a new one. It is due to these reasons that LEVIT has most of their batteries in stock; in such case, we recommend that you pay a visit to any LEVIT partner and purchase a new battery. The original battery is fully recyclable, and we recommend that you dispose of it at any collection point, or at your retailer.

What should I do with my e-bike in winter?

Once you stop riding your bicycle, store it in a dry place where the temperature is in the range of 15–20°C. Remove the battery from the e-bike, make sure that its charge status is about 50% of its full capacity, and store the battery away from the e-bike.

It is a good idea to check the battery status. If there is less than 30% of the capacity remaining in the battery, recharge it for about an hour. Ideally, the capacity of a battery that is stored for a long time should be between 70 and 80% of its full capacity.

Do not leave the battery flat for a long time; it may result in its irreversible damage. If you find out that your battery is flat, first recharge it so that it has half of its full capacity, and then leave it to cool down. Once the battery has cooled down, resume the recharging to achieve full capacity of the charge.

The speed of 25km/h is too low, can it be improved?

The electric motor of the e-bike is switched off after this speed has been reached; the motor does not slow down the ride in any way, and so you can pedal as if you were riding a common bicycle. The e-bike can be hacked (chipped), which means that the speed limit when the system disables the assistance is higher.

WARNING: In case you opt to hack your e-bike, bear in mind that the e-bike will no longer be eligible for use in traffic, and any possible sanctions by authorities are incurred by the e-bike owner. Also, e-bike chipping will render its warranty invalid.

E-bike warranty

Warranty inspection

It is recommended that a warranty inspection be carried out to ensure full functionality of the e-bike. The warranty inspection is usually carried out after the e-bike has been ridden for 100-150km. During the inspection, tightness of all joints, adjustment of brakes and drive train and the actual electric system will be checked. The inspection will be carried out by the retailer where you purchased the e-bike, who will also validate the warranty inspection in the Warranty Card.

It is recommended that the warranty inspection be carried out within 3 months of the warranty coming in force (usually the date of sale), or after 100-150km have been ridden on the e-bike. If the warranty inspection is not carried out, the e-bike may be permanently damaged by subsequent use. The warranty will not be honoured.

Claiming the warranty

The warranty must always be claimed with the dealer where you purchased the e-bike.When claiming the warranty, you are supposed to provide the sales document, Warranty Card with validated warranty inspection, and frame and battery serial numbers filled in. Provide the reason for claiming the warranty, and describe the fault/defect.

Warranty Conditions

24 months for the e-bike's frame and components – covers material and manufacturing defects with the exception of ordinary wear and tear caused by use.
The warranty period extends by a period of time the product was under warranty repair.
The warranty is valid for the original (first) owner only.

Warranty Conditions

- The e-bike must be used solely for the purpose for with it was manufactured.
- The e-bike must be used, stored and maintained in compliance with this owner's manual.
- A warranty inspection of the e-bike must be carried out within 3 months of the beginning of the warranty period.

The right to claim warranty ceases to exist

- if it is discovered that the product was damaged due to owner's wrongdoing (accident, unprofessional tampering beyond the scope of this Owner's Manual, unprofessional tampering with the e-bike construction or electrical system, incorrect storage etc.).
- after the warranty period has elapsed.
- If ordinary wear and tear caused by use is claimed (such as wear of tyres, chain, cassette, chainrings, brake pads/shoes etc.).
- if you have had the e-bike chipped.

Disposal of electrical and electronic devices

Used electrical or electronic products (such as motor, battery, display, sensors, cables etc.) must never be disposed of into municipal solid waste. In order to dispose of the product correctly, bring it to designated collection points where it will be accepted free of charge.

By disposing of this product correctly, you can help reserve valuable natural resources and facilitate preventing potential negative impact on environment and human health. Further details can be obtained at local authorities or the nearest collection point. Incorrect disposal of this type of waste can be sanctioned by financial penalties or in any other way that is compliant with national regulations.

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