

# CRUSSIS

CZECH MANUFACTURER OF E-BIKES

## Electric bicycle user manual

**BAFANG**

e-Guera 9.8-S/ 9.8-M

ONE-Guera 9.8-S/ 9.8-M

e-Atland 9.8-S/ 9.8-M/ 9.8-L

e-Fionna 9.8-S/ 9.8-M

e-Largo 9.8-S/ 9.8-M/ 9.8-L

ONE-Largo 9.8-S/ 9.8-M

e-Cross 9.8-S/ 9.8-M

ONE-Cross 9.8-S/ 9.8-M

e-Cross low 9.8-S/ 9.8-M

ONE-Cross low 9.8-S/ 9.8-M

e-Guera 7.8/ 7.8-S/ 7.8-M/ 7.8-L

ONE-Guera 7.8-S/ 7.8-M

e-Atland 7.8/ 7.8-S/ 7.8-M/ 7.8-L

e-Fionna 7.8/ 7.8-S/ 7.8-M/ 7.8-L

e-Largo 7.8/ 7.8-S/ 7.8-M/ 7.8-L

ONE-Largo 7.8-S/ 7.8-M

e-Cross 7.8/ 7.8-S/ 7.8-M

ONE-Cross 7.8-S/ 7.8-M

e-Cross low 7.8/ 7.8-S/ 7.8-M

ONE-Cross low 7.8-S/ 7.8-M

e-Gordo 7.8/ 7.8-S/ 7.8-M

e-Savela 7.8/ 7.8-S/ 7.8-M

e-Country 7.8/ 7.8-S

e-Guera 6.8

e-Atland 6.8

e-Guera 5.8

e-Atland 5.8

e-Fionna 5.8

e-Largo 5.8

*Enjoy your ride!*

**/MTB**  
SERIES

**/CROSS**  
SERIES

**/TREKKING**  
SERIES

**ONE**  
CRUSSIS

*Cityline*





# Content

Foreword .....4-5

General warnings.....6-13

Electric bike system .....14-18

Electric bike control (color LCD display) .....19-28

Electric bike control (black and white LCD display) .....29-34

Maintenance and storage .....35

Safety warning .....35-36

Warranty .....37

## FOREWORD

Dear users,  
thank you for purchasing a CRUSSIS e-bike! We appreciate you choosing our product. For proper operation of the CRUSSIS e-bike, read the product information carefully before using it. In this manual we inform you about all the details related to the use of the e-bike (including the installation of the device, settings and normal use of the display). This manual will also help you solve any ambiguities and problems.

**CRUSSIS ELECTROBIKES s.r.o wishes you many beautiful and safe kilometers on the new e-bike.**

A list of CRUSSIS dealers can be found on the website [www.crussis.com](http://www.crussis.com).

## WHAT IS AN E-BIKE?

It is a classic bicycle that is equipped with an electric motor. This can be located in the centre, rear or front hub. The maximum assist speed is limited to 25 km/h and this limitation corresponds to the European standard EN 15194-1 (the electric motor is switched off when exceeding this speed and switches on as soon as the speed falls below this limit). Furthermore, the bike is equipped with a battery that can be placed in the frame or on the rear rack. The most important parameters of the battery are voltage and capacity. The higher the values, the greater the range of the e-bike. Currently, lithium-ion (Li-ion) batteries are the most commonly used. The advantage of these batteries is mainly in their low weight and long service life. It is important to keep the battery regularly recharged to prolong its life. The communication between the individual electrical components is provided by a control unit that evaluates the data from the individual sensors, according to which it controls the performance of the electric motor. Operation of the electric motor is provided by a control panel which provides information on battery status, support level and remaining range. Time, speed and distance travelled are standard on most displays. The motor function is activated by pedalling, which is sensed by a special sensor located in the pedal centre. So you have to keep pedaling the e-bike, the motor only helps you. The pedalling sensor is responsible for informing the control unit whether the rider has started or stopped pedalling and informs about the pedalling frequency. This function is taken care of by either a magnetic waist sensor or a torsion sensor. The magnetic waist sensor is a basic sensor that works on the magnetic principle. This sensor, which is installed on the center axis, checks the pedaling frequency. Activation of the sensor by back pedalling is impossible due to the magnets being out of phase. Torsion sensors are used on more expensive sports bikes. Compared to magnetic sensors, they provide information about both the frequency of pedalling and the force exerted on the pedal. A torsion sensor is ideal for off-road riding where there are frequent changes in pedaling frequency. If we need to pedal with more force, the motor will immediately help us with more power. On the other hand, when riding downhill, when less pedal pressure is applied, the motor function is reduced, thus saving battery power. You can set the e-bike in motion using the control

button “-”, which is located on the display controller, but only up to the maximum speed limit, i.e. 6km/h (used to assist walking). On an electric bicycle that complies with the European standard EN 15194-1, is considered as a normal bicycle in terms of the Road Traffic Act. This means that you can ride on cycle paths, you do not need a driving licence and a helmet is only compulsory up to the age of 18. We recommend the use of a bicycle helmet to all users regardless of age.

## E-bike components



**1** battery

**2** motor

**3** control panel (lcd display)

**4** torque sensor (inside of the motor)

**5** brake levers

**6** battery lock

**7** brakes

**8** shifter lever

**9** cranks and pedals

**10** quick release skewer

**11** derailleur

**12** tire and rim

## GENERAL WARNINGS

Riding an e-bike, like other sports, can pose a risk of injury and damage. If you want to use an e-bike, you must learn and follow the rules of safe riding, proper use and maintenance of an e-bike. Regular maintenance and proper use will reduce the risk of injury and extend the life of the product.

**The electric bike models e-Atland, e-Fionna, e-Guera, e-Largo are suitable for riding on paved roads, cycle paths, gravel and forest roads, off-road riding. The e-bikes are equipped with tires with a coarser tread pattern to ensure sufficient grip for off-road riding. Therefore, vibrations may occur when riding on smooth surfaces (asphalt, concrete...).**

**The e-Cross, e-Cross low, e-Gordo, e-Savela models are suitable for riding on paved roads, bike paths, gravel and forest roads.**

**The e-Country models are only suitable for use on paved roads, bike paths and groomed trails.**



*E-bikes should not be used for wading, jumping or impact from height. Do not use them for extreme riding in difficult terrain (downhill, enduro, obstacle riding)!*

*When assembling the e-bike from the box, it is necessary to remove the battery from the frame before you connect the EB-BUS connector to the display. We recommend assembling and adjusting the e-bike in a professional service centre electric bikes.*

The e-bike can be used as a conventional bicycle without the assistance of an electric motor. During unassisted riding (i.e. assistance 0), every e-bike puts some resistance caused by the transmission in the motor.

### Check before your first ride:

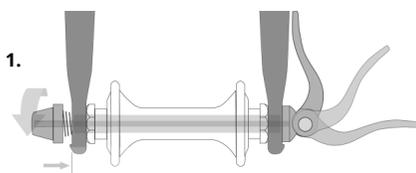
- The right size of e-bike: An inappropriately chosen bike size can affect the handling of an e-bike.
- Saddle adjustment: the correct height and position of the saddle affects the comfort and handling of the bike. The position of the saddle on the seat tube is determined by the scale on the seat rails, there is a marking for the maximum distance and proximity to the handlebars!  
Please note: The maximum permissible height of the seat tube is marked with a line on the seat tube. Never set the seat tube above this height! This will prevent damage to the frame of the e-bike or the seat tube and possible injury.
- The correct height of the stem and handlebars.

### Regular check:

Check the condition of your e-bike regularly before each ride. In this way, many technical problems can be prevented in time. The consequences of an irregular check can be disastrous in many cases. The life expectancy of the frame or components is influenced by the construction and material used, as well as maintenance and intensity of use. Regular inspections by qualified professionals should be a matter of course. Lift the e-bike to a height of 5-10 cm above the ground and drop it. This should reveal any loose components. Then carry out a visual and tactile check of the whole e-bike, especially the correct tightening of all bolts, nuts, pedal centre, pedals etc.

## Wheels and tires:

Check that the tires are properly inflated. Riding on an underinflated or overinflated tire can lead to poor e-bike control. We recommend to follow the maximum and minimum pressure values specified by the manufacturer on the tire. Check the tires for wear and proper shape. If bumps or cracks appear on the tires, you must replace the tires before use. Then check whether the wheels are correctly centered by turning them. Check if spokes are tight or are not missing. Make sure that the front and rear wheels are properly secured (Fig. 1). If it is a wheel with a Thru-Axle, make sure that the axle is fitted in the correct direction (at the front wheel).



## Brakes:

Check the function of the brakes. Press both brake levers and push the e-bike forward. Are the brake pads in full contact with the disc without the levers touching the handlebars? If not, the brakes must be adjusted (bled). Check the brake pads for wear. Brake pads and discs are worn out during use, so it is necessary to service the brakes regularly and replace worn parts in time.

## Gear shifting and chain:

The chain requires regular maintenance to extend its lifetime. Before lubrication, it is advisable to clean the chain and pinions first. Lubricate the chain with the lubricant designated for the bicycle chain. The chain stretches over time. The lifespan of the chain is very individual and depends on the quality of the chain, the mileage, the driving style and the terrain in which you drive. Regular replacement is necessary. The condition of the chain can be checked with a special gauge. A stretched or damaged chain can damage the gears and pinions. During shifting, the shifter cable becomes worn and stretched. The shifting needs to be adjusted regularly to switch correctly. By loosening or tightening the bowden nut at the shifter lever, fine corrections can be achieved.

**Forks: You can find different types of forks on Crussis e-bikes.**



*You should never lock the fork when riding off-road or jumping. The fork may be damaged when compressed under heavy loads. This can also result in an accident and injury*



*Also note that the fork is not intended for extreme terrain, jumps, downhill, freeride or dirt jumps. Failure to follow this information may result in damage to the fork, accident or death. Failure to follow this information will void the warranty.*

## SR-Suntour suspension fork

### SR SUNTOUR XCM HLO DS 29

(e-Fionna 7.8/ 7.8-S/ 7.8-M/ 7.8-L, e-Largo 7.8/ 7.8-S/ 7.8-M/ 7.8-L, ONE-Largo 7.8-S/ 7.8-M)

Stroke: 100 mm

Stanchion Diameter: 30 mm

Fork column: 1 1/8"

Suspension: hydraulic hub with oil/ spring

Locking: from fork (crown)

Axis: RU 9 mm

### SR SUNTOUR XCM HLO DS 26"

(e-Atland 6.8, e-Guera 6.8)

Stroke: 100 mm

Stanchion Diameter: 30 mm

Fork column: 1 1/8"

Suspension: hydraulic hub with oil/ spring

Locking: from fork (crown)

Axis: RU 9 mm

### SR SUNTOUR XCT HLO DS 29"

(e-Fionna 5.8, e-Largo 5.8)

Stroke: 100 mm

Stanchion Diameter: 30 mm

Fork column: 1 1/8"

Suspension: hydraulic hub with oil/ spring

Locking: from fork (crown)

Axis: RU 9 mm

### SR SUNTOUR XCT HLO DS 27,5"

(e-Atland 5.8, e-Guera 5.8)

Stroke: 100 mm

Stanchion Diameter: 30 mm

Fork column: 1 1/8"

Suspension: hydraulic hub with oil/ spring

Locking: from fork (crown)

Axis: RU 9 mm

### SR SUNTOUR XCM HLO DS 27,5"

(e-Atland 7.8/ 7.8-S/ 7.8-M/ 7.8-L, e-Guera 7.8/ 7.8-S/ 7.8-M/ 7.8-L, ONE-Guera 7.8-S/ 7.8-M)

Stroke: 100 mm

Stanchion Diameter: 30 mm

Fork column: 1 1/8"

Suspension: hydraulic hub with oil/ spring

Locking: from fork (crown)

Axis: RU 9 mm

### SR SUNTOUR NEX HLO DS 700c

(e-Cross 7.8/ 7.8-S/ 7.8-M, ONE-Cross 7.8-S/ 7.8-M, e-Cross low 7.8/ 7.8-S/ 7.8-M, ONE-Cross low 7.8-S/ 7.8-M, e-Gordo 7.8/ 7.8-S/ 7.8-M, e-Savela 7.8/ 7.8-S/ 7.8-M)

Stroke: 63 mm

Stanchion Diameter: 28 mm

Fork column: 1 1/8"

Suspension: hydraulic hub with oil/ spring

Locking: from fork (crown)

Axis: RU 9 mm

### SR SUNTOUR XCT-ATB HLO DS 27,5"

(e-Country 7.8/ 7.8-S)

Stroke: 100 mm

Stanchion Diameter: 28 mm

Fork column: 1 1/8"

Suspension: hydraulic hub with oil/ spring

Locking: from fork (crown)

Axis: RU 9 mm

## IMPORTANT SAFETY INFORMATION

1. It is very important to have the SR-Suntour suspension fork installed correctly by a qualified bicycle mechanic. Improperly installed forks are extremely dangerous and can cause serious or fatal injuries.
2. The fork on your bike is designed for use by a single rider on mountain roads and similar terrain conditions. It is not advisable to drive off-road when the fork is locked.
3. Before driving, make sure that the brakes are properly installed and adjusted. Use the brakes carefully and familiarize yourself with their properties and braking performance in non emergency

conditions. Hard braking or improper use of the front brake can cause you to fall. If the brakes are not properly adjusted or improperly installed, the rider can be seriously or fatally injured.

**4.** Under certain circumstances, the fork may malfunction, including if oil is lost, components or parts of the fork are bent or cracked. The fault in the fork may not be visible. Do not ride a bicycle if you notice bent or broken fork parts, oil loss, sounds due to excessive suspension, or other indications of a possible fork defect, such as loss of shock absorbing properties. Take your bike to a qualified dealer for inspection and repair. Damage to the fork may result in wheel damage or personal injury. Suspension forks and rear shock absorbers contain highly pressurized liquids and gases. The warnings in this manual must be followed to prevent injury or death. Never try to open the cartridge or the rear silencer, they are under a lot of pressure, as mentioned above. If you try to open the cartridge or the rear absorber, you risk serious injuries.

**5.** Always use genuine SR-Suntour parts. The use of non-original spare parts will void the warranty and may cause a structural defect in the fork. A structural failure can cause you to lose control of your bicycle with possible serious or fatal injuries.

**6.** If you use a bike carrier on a car, the instructions for use of the bike carrier must be followed during any handling. If you are carrying the bike in a carrier on or behind the car in bad weather, you need to protect the bike from water with a suitable cover. Because when driving in the rain, e-bike is exposed to pressure of the water and it is equal to a pressure washing, which can seriously damage the bike.

**7.** The fork is designed to secure the front wheel with a quick release or thru-Axle . Make sure you understand which shaft your wheel has and how to handle it properly. Do not use a screw on the shaft. An incorrectly mounted wheel can allow the wheel to move or release, this can cause the damage to the bicycle and serious injury or death to the rider.

**8.** Follow all instructions in the user manual regarding care and maintenance of this product.

### **Coil spring preload**

The fork can be adapted to the rider's weight and preferred travel style by means of a spring preload. The preload is to be set, not the hardness of the coil spring. This reduces the „SAG“ fork when the rider sits on the bike. A medium hard spring is used as standard. Turn the preload wheel clockwise to increase the preload and turn it counterclockwise to decrease it. SR Suntour forks offer two more types of spring hardness. Softer and harder than a standard spring.

### **Locking system**

The SR SUNTOUR fork „lock“ function prevents movement, popularly called fork swinging, when you ride standing or uphill. The fork is not 100% locked. There are a few millimeters to prevent the oil cartridge from penetrating. This system protects the fork if you forget to unlock it in terrain.

## Closing from the fork crown

To lock the fork, turn the “Speed lock-out” lever 90 ° clockwise. To unlock, turn counterclockwise. (illustrative image)



## INSPECTION AND MAINTENANCE

SR SUNTOUR forks are designed to be almost maintenance-free. But because moving parts are exposed to moisture and dirt, your fork's performance could be reduced after a few rides. Regular service and maintenance is required to ensure high performance, safety and long life of the fork.

### Before each ride

If you find any cracks, dents, abrasions, deformations, oil leaks on the fork or other components, contact a qualified mechanic to inspect the fork or e-bike.



*Keep in mind that failure to maintain of the fork according to the manual will void the warranty. Do not use high pressure cleaners or other procedures that use high pressure water for cleaning. There may be water flowing through the dusters into the fork.*

*If you use the bike in extreme conditions (e.g. in winter) or in extreme terrain, we recommend performing maintenance more often than indicated in the table below.*

*If you think your fork's performance has dropped or is behaving differently, immediately contact a specialized service and have the fork checked.*

### After each ride

Clean the fork legs and duster with an oiled cloth with a suitable oil (eg Brunox Deo, etc.). If an unsuitable product is used, there is a risk of irreversible damage to the fork. Check the legs for scratches.

### Every 50 hours drive

**MAINTENANCE A** - at the dealer or service technician.

### Every 100 hours drive

**MAINTENANCE B** - at the dealer or service technician. Ideally before the winter, so that the fork is ready for extreme weather.

## MAINTENANCE A

Check the functionality of the fork. Check the tightening of all bolts and nuts (10 Nm). Check the legs for scratches, dents, cracks, discoloration, signs of wear, and signs of beginning corrosion. Perform maintenance with an oiled cloth.

## MAINTENANCE B

**Maintenance A +** disassembly. Complete fork cleaning inside and out. Cleaning and lubrication of dusters and cleaning rings. Tightening check. Adaptation to the rider's preferences. Check the fork clearance by braking the front wheel and gently pushing the stem forwards and backwards prior to disassembly. If there is clearance in the fork, send it to authorized SR SUNTOUR service center.



*Please note that all SR SUNTOUR cartridges and metal cases are subject to normal wear and their durability and proper functionality are very individual and depend on mileage, driving style, terrain and the environment in which you drive. Metal cases have a one-year limited warranty, plastic cases have a six-months warranty. We do not recommend using oils containing teflon on a fork with plastic bushings, there is a risk of etching the bushing.*

## ROCKSHOX suspension fork

### RockShox FS Judy Silver TK Solo Air 29"

(e-Fionna 9.8-S/ 9.8-M, e-Largo 9.8-S/ 9.8-M/9.8-L, ONE-Largo 9.8-S/ 9.8-M)

Stroke: 100 mm

Fork column: 1 1/8"

Suspension: Solo Air

Locking: from fork (crown)

Axis: RU 9 mm

### RockShox FS Paragon Gold RL Solo Air 700c

(e-Cross 9.8-S/ 9.8-M, ONE-OLI Cross 9.8-S/ 9.8-M, OLI Cross low 9.8-S/ 9.8-M, ONE-OLI Cross low 9.8-S/ 9.8-M)

Stroke: 65 mm

Fork column: 1 1/8"

Suspension: Solo Air

Locking: from fork (crown)

Axis: RU 9 mm

### RockShox FS Judy Silver TK Solo Air 27,5"

(e-Atland 9.8-S/ 9.8-M/ 9.8-L, e-Guera 9.8-S/ 9.8-M, ONE-Guera 9.8-S/ 9.8-M)

Zdvih: 100 mm

Sloupek vidlice: 1 1/8"

Průžení: Solo Air

Locking: from fork (crown)

Axis: RU 9 mm



Locking: from fork (crown)

## IMPORTANT SAFETY INFORMATION

1. It is very important to have the RockShox suspension fork installed correctly by a qualified bicycle mechanic. Improperly installed forks are extremely dangerous and can cause serious or fatal injuries.

2. The fork on your bike is designed for use by a single rider on mountain roads and similar terrain conditions. **It is not advisable to drive off-road when the fork is locked.**

3. Before driving, make sure that the brakes are properly installed and adjusted. Use the brakes carefully and familiarize yourself with their properties and braking performance in non emergency conditions. Hard braking or improper use of the front brake can cause you to fall. If the brakes are not properly adjusted or improperly installed, the rider can be seriously or fatally injured.

4. The fork may malfunction under certain circumstances. For instance if oil is lost, components or parts of the fork are bent or cracked. The fault in the fork may not be visible. Do not ride a bicycle if you notice bent or broken fork parts, oil loss, sounds due to excessive suspension, or other indications of a possible fork defect, such as loss of shock absorbing properties. Take your bike to a qualified dealer for inspection and repair. Damage to the fork may result in wheel damage or personal injury. Suspension forks and rear shock absorbers contain highly pressurized liquids and gases. The warnings in this manual must be followed to prevent injury or death. Never try to open the cartridge or the rear silencer, they are under a lot of pressure, as mentioned above. If you try to open the cartridge or the rear absorber, you risk serious injuries.

5. Always use genuine RockShox parts. The use of non-original spare parts will void the warranty and may cause a structural defect in the fork. A structural failure can cause you to lose control of your bicycle with possible serious or fatal injuries.

6. If you use a bike carrier on a car, the instructions for use of the bike carrier must be followed during any handling. If you are carrying the bike in a carrier on or behind the car in bad weather, you need to protect the bike from water with a suitable cover. Because when driving in the rain, e-bike is exposed to pressure of the water and it is equal to a pressure washing, which can seriously damage the bike.

7. The fork is designed to secure the front wheel with a quick release or thru-Axle . Make sure you understand which shaft your wheel has and how to handle it properly. Do not use a screw on the shaft. An incorrectly mounted wheel can allow the wheel to move or release, this can cause the damage to the bicycle and serious injury or death to the rider.

8. Follow all instructions in the user manual regarding care and maintenance of this product.

## INSPECTION AND MAINTENANCE

### Before each ride

If you find any cracks, dents, abrasions, deformations, or oil leaks on the fork or other components, contact a qualified mechanic to inspect the fork or e-bike.

Check air pressure. Load the fork with all your weight. If you find it soft, pump the fork to the requi-

red hardness. (For more information, see the section „Setting the air pressure“).

Check the wheel mounting and cable and bowdens routing - they must not restrict the movement of the handlebars.

#### **After each ride**

Clean all dirt. Do not use high-pressure cleaners - water may flow through the dusters into the fork. Lubricate the dust seals and fork legs. Do not use other oil than designed for forks lubrication. Consult your dealer for the use of a suitable oil.

#### **Every 25 hours of drive**

Oil inspection.

Check the correct tightening torque of the fork holders and other components.

Cleaning and lubrication of the outer cable and bowden cable.

#### **Every 50 hours of drive**

Removal of shock absorbers, cleaning / checking inserts and changing oil (if necessary).

Cleaning and lubrication of the air damper mounting kit.

#### **Every 100 hours of drive**

Complete cleaning of the fork inside and out, cleaning and lubrication of dust caps and cleaning rings, oil change in the damping system, tightening control and adjustment to the driver's preferences.

Prior to disassembly, check the fork clearance by braking the front wheel and gently pushing the stem forwards and backwards. If there is clearance in the fork, contact a qualified mechanic.

### **AIR PRESSURE ADJUSTMENT**

1. Unscrew the valve cap. Screw the pump inflator onto the valve.

2. Pump the fork to the required pressure. Never exceed the maximum permissible pressure from the manufacturer. The recommended pressure and maximum pressure can be found in the table below or on the **fork leg**.



*Use only pumps designed to inflate forks and shock absorbers to inflate RockShox forks. Using an unsuitable inflator can damage the fork! The fork must be unlocked when inflating, otherwise there is a risk of damage! Note that all Rock Shox forks are subject to normal wear and tear and that their durability and proper functioning are very individual and depend on the mileage, driving style, terrain and environment in which you ride. We do not recommend using oils containing Teflon on a fork with plastic bushings, there is a risk of etching the bushing.*

## Frame

Do not use a bent or cracked frame. You must never repair or straighten the frame under any circumstances. Consult your Crussis e-bike dealer for frame damage. Crussis frames have a mounting place for bottle holder. We recommend using side bottle holder (to remove the bottle to the side) to avoid breaking the screws.

## E-bike load

The e-bike load stated in the specifications of the individual models is the sum of the rider's weight and the weight of the bike and the weight of all currently attached accessories (carrier, fenders, child seat, bags ....) and cargo!

*Always keep all components clean.*

*If you wash the e-bike with water (do not use high-pressure cleaners to clean the e-bike or its parts) - always remove the battery from the e-bike before washing. Dry the e-bike before returning the battery. We recommend drying the e-bike after each ride, especially all electrical components. In winter, pay special attention to the maintenance of the e-bike, always clean the components from salt and moisture after riding. Perform maintenance at regular intervals. Information on the recommended tire pressure can be found directly on the side of the tire!*

*Attention! The metal parts of the e-bike can become hot after use and there is a risk of burns.*



This manual is universal for all BAFANG M400 and M500 drive systems.

System: **BAFANG M400 (MAXDRIVE)**

Torque: 80 Nm

Rated Power: 250 W

Weight: 3,9 kg

Resistance: IP65

Pedal sensor: Torque and speed sensor

System: **BAFANG M500**

Torque: 95 Nm

Rated Power: 250 W

Weight: 3,3 kg

Resistance: IP65

Pedal sensor: Torque and speed sensor



## ELECTRIC BIKE SYSTEM

The motor is activated by means of a torsion (pressure, force) sensor integrated into the central axis. The torsion sensor evaluates the frequency and force of pedaling, which it transmits to the control unit, which doses the motor power according to the force you pedal with. The e-bike motor switches on after about one turn of the pedal cranks. It switches off again after 1-2 sec. when you stop pedalling. The motor disengages when the speed reaches 25 km/h and re-engages when the speed drops below this limit. It thus complies with all European standards and is still a bicycle. The e-bike is equipped with an LCD panel that controls the electric drive. On the display (LCD panel) it is possible to select different modes of assistance 0 - 5. The highest assistance mode is 5, the 0 assistance mode is without the help of the electric motor. The LCD panel also contains a „walking assist“ function. In this mode the bike travels at speeds up to approx. 6 km/h without pedal assistance. The pedestrian assist helps when pushing or starting. The function is not intended for continuous riding.

## Optional driving programs

The number of assist level can be selected in the display settings menu. 100% of the motor power can be divided into 3, 5 or 9 stages. The default setting is 5 levels of assistance.

**0** without motor assistance (display records mileage data)

**1-2** low motor assistance

**3** medium motor assistance

**4-5** high motor assistance



*The motor assistance can vary depending on weather conditions, road conditions, the bicycle or driving style. The engine assistance modes are graded, i.e. ECO (lowest assistance) - HIGH (highest assistance) up to a speed of 25 km/h. The torsion sensor transmits information about the pedaling force, the more you pedal, the more the electric motor assists. Walk assist: the bike rides on its own at speeds up to approx. 6 km/h and helps when starting or pushing. This function is not intended for continuous riding! The speed and power of the walking assist is dependent on the gear (larger pinion less speed but more power, can be used on hills - smaller pinion more speed but less power, can be used on flat ground). We recommend using smaller pinions for proper function of the walking assist.*

**RECOMMENDED! ALWAYS turn off the e-bike after riding by pressing the button on the battery for 2 seconds.**

## BATTERY INFORMATION

Lithium-ion (Li-ion) batteries are the most commonly used batteries today. The advantage of these batteries is mainly their light weight and long life. Li-ion batteries have a very low self-discharge rate. From the first charge, the battery needs to be kept in its working cycle (discharge/charge), even when not in use, the battery discharges naturally. It is recommended to recharge the battery regularly even when not using the electric bike about once a month and store it charged to 60 - 80% capacity. Otherwise, the battery may be damaged, which may cause a shorter range or, in the worst case, complete non-functionality. By recharging regularly you extend the life of the battery. We recommend that you fully charge the battery before first use. Since batteries do not have a memory effect, they can be recharged at any time. The maximum capacity is reached after approx. 5 - 10 charges. Always keep the battery charged and recharge it after a ride, not before the next ride. Li-Ion batteries are 100% recyclable. You can drop off the battery at any collection point or directly at the dealer. The battery is recharged using the included 230/240V charger, charging time is approximately 5 - 9 hours (depending on battery capacity and state of discharge). The battery can be left on the bike while charging, or it can be removed. To remove the battery, turn the key and then remove the battery.

### General recommendations for switching on the system

#### If a situation arises where you need to switch the e-bike back on:

1. after approx. 0 - 7 hours, switch on the display.
2. after approx. 7 - 72 hours, first switch on the battery by briefly pressing the on/off button, then switch on the display
3. after more than 72 hours, revive the battery by connecting it to the charger.

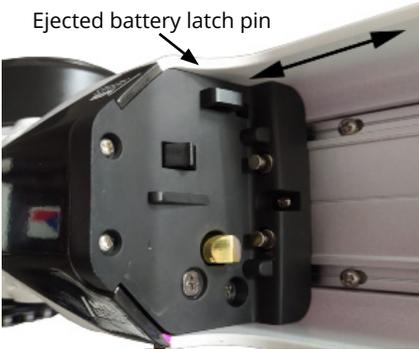
If you have turned the battery off by pressing the on/off button after driving, only points 2 and 3 apply.

Always switch off the e-bike system before charging the battery! Store the battery in a dry area at room temperature without direct sunlight. Never expose the battery to temperatures below 10 °C for long periods of time or to extremely high temperatures above 40 °C. The battery is the most expensive part of the electric bike. Pay particular attention to its storage, handling and charging. Never immerse the battery in water (any liquids), store it in a humid environment or disassemble it. Please make sure the battery is properly seated and locked before each ride. There are several types of batteries available with Crussis e-bikes. Unlock the battery by turning the key to the left and release by pressing the button (if equipped), lock by turning to the right. Or unlock the battery by turning the key to the right, lock by snapping the battery into the frame. Some models may also be equipped with a latch pin, see picture below. the latch pin must be pushed down towards the motor.



### Frame battery - fully integrated

Ejected battery latch pin



Battery indicator, power button



First, attach the connector then push the battery towards to the lock

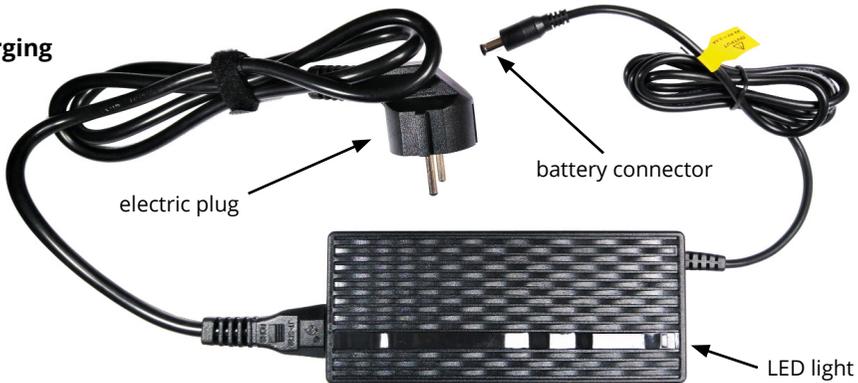


To switch on the battery, press and hold the button (approx. 2 seconds). By Pressing the button LED lights up for few seconds by color which represents the charge level of the battery. If the LED is blue, the battery chargé level is 100 - 75%. If the LED is green, the battery is 75 - 50% charged. If the LED is red, the battery capacity is less than 50%. The battery charge status display on the control panel is for reference only. If the motor stops running smoothly and runs intermittently, the battery charge level is too low. In this case, the electric drive system must be switched off. Continue driving without motor assistance and ensure that the battery will be recharged. When the battery charge drops to around 25%, the motor power will drop to the minimum assist level. This saves the battery power.



*The battery charge status shown on the control panel display is for reference only. In case of excessive overheating, the battery will automatically shut down. The battery is protected by a temperature sensor. Once the battery has cooled down to operating temperature, it is possible to continue driving. Overheating of the battery is a common phenomenon associated with battery operation. If you leave the e-bike in a public place, we recommend locking the battery with a key. We recommend separating the keys of the battery, do not carry them all in one bundle in case of loss.*

### Charging



Connect the charger to the battery and then plug the electrical plug into the electrical socket. Once the charger is connected to the electrical socket, the red LED on the charger lights up to indicate that the charging process has started. Charging stops automatically when the battery is fully charged. The charge status is indicated by a green LED. First disconnect the charger from the electrical socket, then from the battery. The battery charging time to 100% takes 5 - 9 hours (depending on the state of discharge). Interrupting the charging process does not damage the battery. The battery is a Li-ion type and its nominal voltage is 36V, it charges 42V, fully charged it reaches 42V, which can be measured about a second after disconnecting the charger. After that, it immediately drops to 41V and below. This is a standard behaviour of the battery.

*Recharge the battery at room temperature (approx. 20°C). Always keep the battery (e-bike) under supervision when charging.*

*Charging the battery at temperatures below 10°C and above 40°C can seriously damage the battery.*



*Only use the charger that came with your e-bike to charge the battery.*

*The battery is sensitive to accurate charging, using a different charger may result in damage to the battery or other parts of the e-bike.*

*If the charger (or its cables) is damaged, never connect it to the electric bike or el. socket.*

*Always switch off the battery and the e-bike system before charging!*

## FACTORS AFFECTING THE RANGE OF THE ELECTRIC BIKE

It is not possible to determine the range of an e-bike accurately because it is influenced by many factors.

- 1. Route profile and surface:** on flat terrain, the range is higher than when riding on long steep climbs and worse surfaces.
- 2. Rider and load weight:** higher rider and load weight means higher energy consumption.
- 3. Inflation and tire tread:** correct tire inflation is important. Riding on under-inflated tires reduces the range of the e-bike.
- 4. Battery condition:** a fully charged, new battery has a greater range than a battery that has been charged and discharged many times. The battery capacity also has an effect on the range. Higher capacity = higher range. The battery reaches its maximum capacity after 5-10 charges.
- 5. Assist mode:** more motor assistance means lower range.
- 6. Driving style and smoothness:** if you pedal a lot, the motor uses less energy. The smoothness of the drive also its influence, as frequent ride start reduces the range.
- 7. Weather conditions:** temperatures around 20°C and no wind are ideal. If the temperature is lower and there is a strong headwind, the range is reduced.

## ELECTRIC BIKE CONTROL (COLOR LCD DISPLAY)

Bafang control panel with high contrast LCD display. It provides all the important information, which it displays without problems even in direct sunlight. The control from the handlebar provides good feedback and ease of use. The user interface is clearly legible and intuitive. The control panel and display are protected against water and dirt ingress. Meets protection class IP 65. The system must be switched on when the e-bike is stationary (if the e-bike is not moving). If the system is switched on while driving, assistance may not work. The assistance is then switched on only when the e-bike is stopped and start move again.



*Photo is illustrative only*

### Model: DP C18

*model series 6.8, 7.8, 7.8-S, 7.8-M, 7.8-L, 9.8-S, 9.8-M, 9.8-L*

#### Specifications

|                        |                       |
|------------------------|-----------------------|
| Display type:          | LCD, 3.5"             |
| Weight:                | 202 g                 |
| Dimensions:            | 98x63x69 mm           |
| Handlebar holder Ø:    | 22.2 / 25.4 / 31.8 mm |
| Rated voltage:         | 36V / 43V / 48V       |
| Operating temperature: | -20 °C - + 45 °C      |
| Protection class:      | IP 65                 |
| USB:                   | 5V 500 mA             |

*Do not expose the LCD screen to prolonged sunlight when the e-bike is not in use.  
A USB connector is located at the bottom of the display. This can be used to charge electrical devices.*

*The USB connector must be closed with a rubber cap when not in use.*



*The output current is 500 mA.*

*If the e-bike is not used, the display will turn off automatically after 5 minutes.*

*A different time limit can be set in the display menu.*

*If you do not use the e-bike for a long time, the clock may be reset*

*The time will then need to be set again.*

# DISPLAY DESCRIPTION



**1 Time display\*:**

The time is displayed in 24-hour format and shows the current time. The time can be set in the Clock Settings menu.

**2 USB connection icon:**

When an external device is connected, the corresponding symbol appears on the display.

**3 Display illumination/backlight indicator:**

The icon is only displayed if it is active.

**4 Speed scale display:**

The value on the scale coincides with the digital speed value.

**5 Mode selection:**

Distance travelled (TRIP) → total kilometres travelled counter (cannot be cleared) ODO → maximum speed reached (MAX) → average speed (AVG) → remaining distance (RANGE) → your energy consumption (CALORIES) → time (TIME)

**6 Battery level display:**

Display the current battery level.

\* The Time Display and Energy Consumption functions are only additional functions and do not affect the rideability of the e-bike. If the time does not correspond to reality, you can manually adjust it as required.

**7 Voltage / percentage:**

Showing the current battery level in volts or in %, the display mode can be set in the (SOC View) you can choose between volts or %.

**8 Digital speed:**

Display of current speed. Speed units can be set in the menu (Unit).

**9 Power / current scale:**

It shows how many watts or amps „depending on whether you select watts or amperes in the display menu (Power View)“ the motor is currently helping you.

**10 Pedal assistant / walk assistant level:**

You can change the assistance level [(1-3), (1-5), (1-9)] by briefly pressing the + or - buttons. Pressing and holding the - button starts the Walking Assistant mode. The mode symbol appears on the display.

\* For model 9.7, it is necessary to use the - button to select the symbol (walking assistant) and then hold down - button to start the Walking Assistant.

**11 Data display mode:**

Displays the current data corresponding to the selected mode.

# BUTTON FUNCTIONS



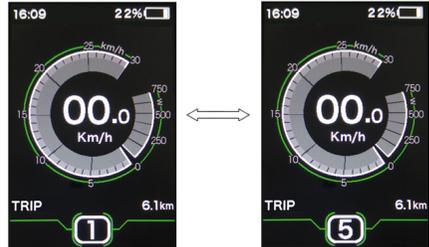
# OPERATION

## On/off button

Turn on the power (battery). Then press and hold the button  on the display for 2 seconds to turn on the display. Press and hold the button again to turn the display off. When the bike is not in use, the display will automatically turn off after 5 minutes. The off time can be set in the Auto Off menu. If a password is set on the display, it must be entered correctly before starting.

## Selecting the level of pedal assist

Press the + or - buttons briefly to set the desired level of pedal assist. The lowest level is 0, the highest level is 5. The default setting when the display is switched on is 1. Level 0 is the mode without motor assistance.

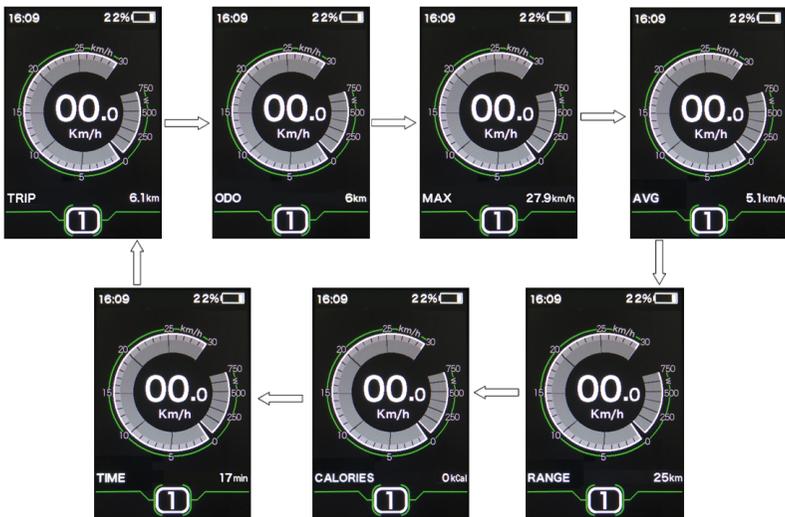


## Switching the data display mode

By briefly pressing the "i" button, you can switch between the individual modes in the following order: distance traveled (TRIP) → total distance (ODO) → maximum achieved speed (MAX) →

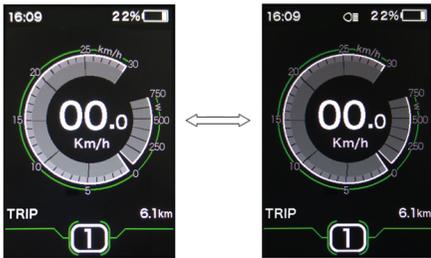
→ average speed (AVG) → remaining distance (RANGE) → power consumption (CALORIES) → time (TIME).

The units of power consumption in CALORIES mode are kCal.



## Turn on the display backlight

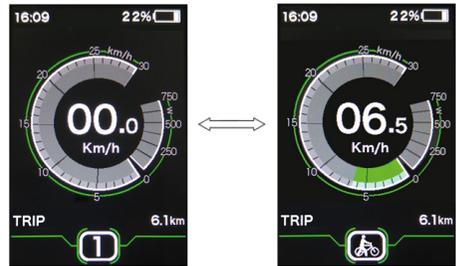
When the bike system is on and the display is lit, the display backlight adapts to the ambient light. A reflector symbol  appears on the display when the backlight is dimmed. The display offers 5 levels of sensor sensitivity adjustment from which you can choose to adjust the backlight brightness. This sensor works similarly to mobile phones and darkens or brightens the display according to the ambient light. This can be set in the display menu under (AI sensitivity). When auto-dimming is turned off, you can dim the display backlight by pressing and holding a button  on the display controller.



## Walking assistant mode

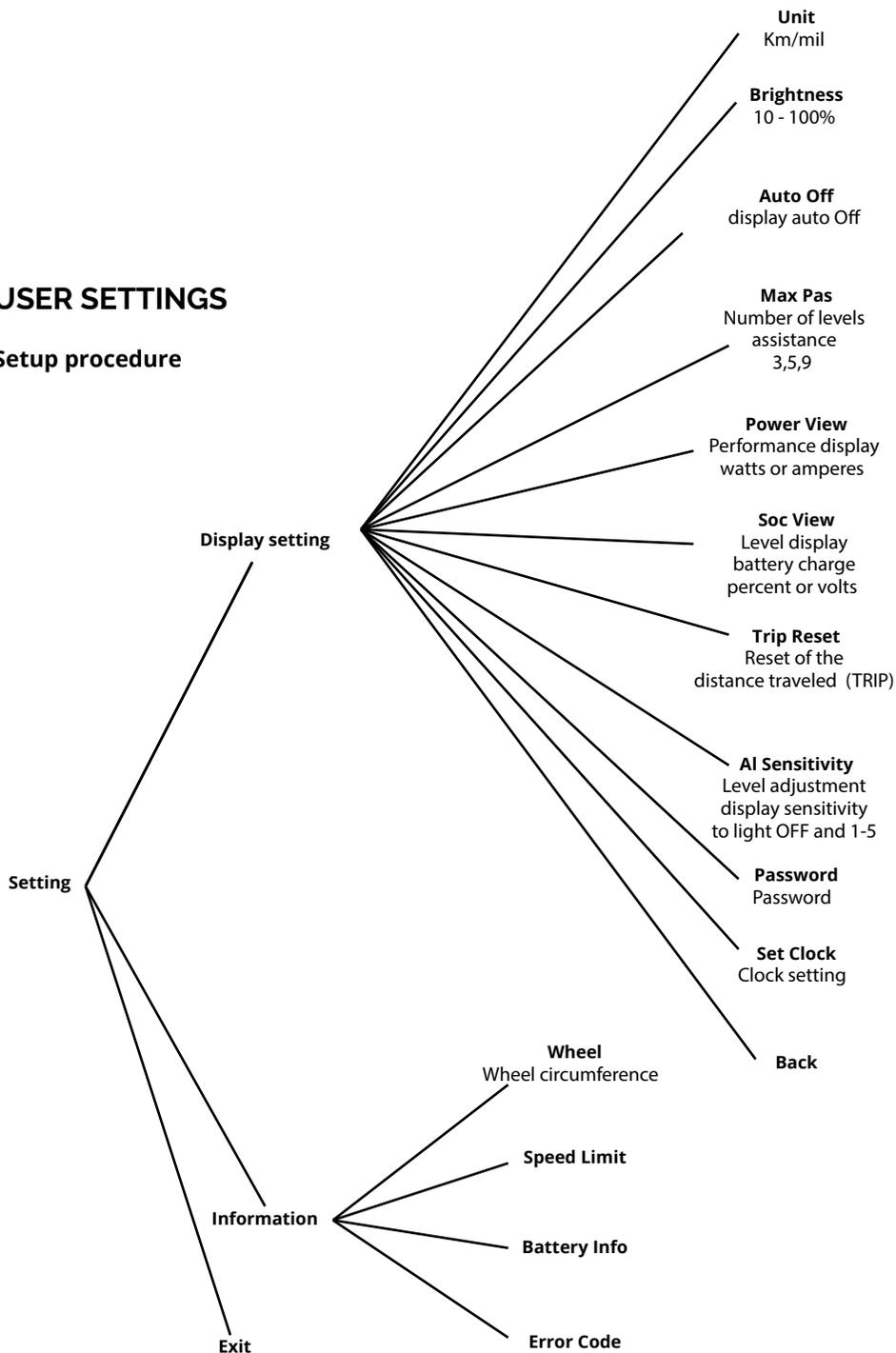
Pressing and holding the - button starts the Walking Assistant mode. The mode symbol  appears on the display. Release the - button to exit this mode. You can choose the speed at which the e-bike rides when pushing it by selecting the gear with the shifter lever.

\* For models 9.7, it is necessary to use the - button to select the symbol (walking assistant) and then hold it down button - to start the Walking Assistant.



# USER SETTINGS

## Setup procedure



## Access to the SETTINGS

After switching on the display, press the "i" key twice in quick succession and enter in to settings.

### SETTINGS:

The setting contains 3 menus:

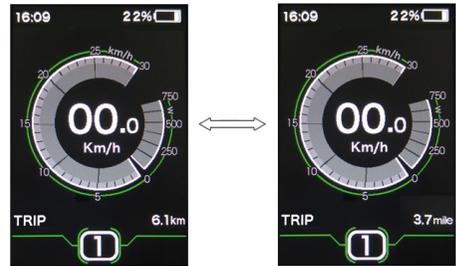
Display setting, Information and Exit. Briefly press the + or - button and select the desired menu. Briefly press the "i" button to confirm and enter the menu. Select the END option and briefly press the "i" key to exit the settings. Press the "i" button twice briefly to exit the settings. In both cases, the set data are saved when you leave. After more than 20 seconds of inactivity, the display will automatically return to the same state as when the system is turned on (Main Interface), no data will be saved.

### Entering the Display Setting

In the Settings menu, briefly press the + or - button and select Display settings. Briefly press the "i" button to confirm and enter the menu. There are 10 options in this interface.

### (1) Setting km / miles (Unit)

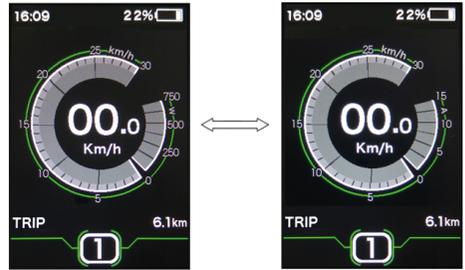
Briefly press the + or - button and select the Units menu. Briefly press the "i" button to confirm and enter the menu. Briefly press the + or - button and select between Metric (km) / Imperial (miles). Briefly press the "i" button to confirm and return to the Units menu. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.



Brightness menu. Briefly press the "i" button to confirm and enter the menu. Press the + or - button again briefly to select the desired value 100% / 75% / 50% / 30% / 10%. 100% indicates the highest brightness, 10% the lowest brightness. After selecting the value, briefly press the "i" button again to save the setting and return to the brightness setting. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.

### (3) Automatic off time setting (Auto Off)

Briefly press the + or - button and select the Auto Off menu. Briefly press the "i" button to confirm and enter the menu. Press the + or - button again briefly to select one of the options OFF / 9/8/7/6/5/4/3/2 / 1. The units are a minutes. After selecting the value, briefly press the "i" button again to save the setting and return to the Auto Power Off setting. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.



### (4) Setting assistance levels (MAX PAS)

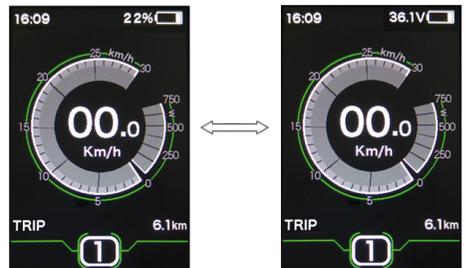
Briefly press the + or - button and select the max pas menu. Briefly press the "i" button to confirm and enter the menu. Press the + or - button again briefly to select the required number of levels 3, 5 or 9. After selecting the option, briefly press the "i" button again to save the settings and return to the Assistance Level Settings. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.

### (5) Power View settings

Briefly press the + or - button and select the Performance View menu. Briefly press the "i" button to confirm and enter the menu. Press the + or - button again briefly to select between Power or Current display modes. After selecting the option, briefly press the "i" button again to save the settings and return to the Performance Display settings. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.

### (6) The battery charge level display (Soc View)

Briefly press the + or - button and select the Soc View (Display battery level menu). Briefly press the "i" button to confirm and enter the menu. Press the + or - button again briefly to select between Percentage or Voltage display mode. After selecting an option, briefly press the "i" button again to save the setting and return to the Soc View. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.



**(7) TRIP, MAXS, AVG mileage reset setting (TRIP Reset)**

Briefly press the + or - button and select the TRIP reset menu. Briefly press the "i" button to confirm and enter the menu. Press the + or - button again briefly to select between YES or NO. The TRIP Reset menu includes the maximum MAXS distance traveled, the average AVG speed and the TRIP distance traveled. After selecting the option, briefly press the "i" button again to save the settings and return to the TRIP reset setting. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT. When the display is turned off or the power is turned off, the above data is not automatically reset.

**(8) Setting the sensitivity of the automatic display backlight (AL Sensitivity)**

Briefly press the + or - button and select the display light sensitivity menu. Short press "i" to confirm and you enter the menu. Press the + or - button again to select the desired light sensitivity level 0/1/2/3/4/5 / OFF. Off means the automatic display brightness change function is Off. Level 1 is the weakest light sensitivity, level 5 is the highest light sensitivity of the display. After selecting the desired sensitivity level, briefly press the "i" button again to save the setting and return to the AL Sensitivity setting. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.



**(9) Setting a power-on password**

Briefly press the + or - button and select the Password menu. Briefly press the "i" button to confirm and enter the menu. Briefly press the + or - button and select the Password menu. Briefly press the "i" button to confirm and enter the menu. Briefly press the + or - button to select OFF or ON as follows.

Login password:

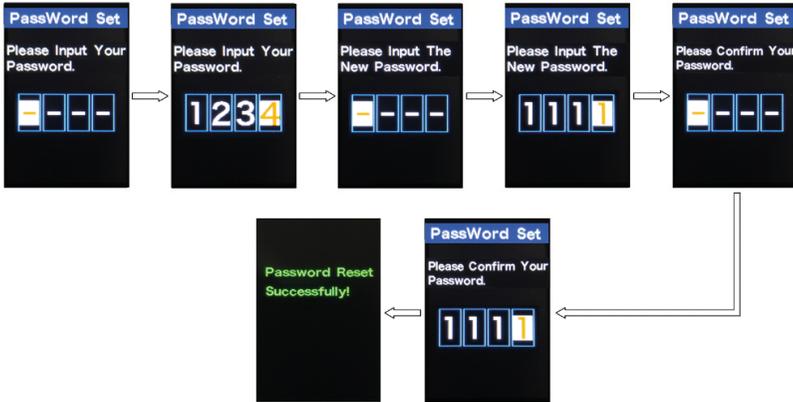
Enter the Password menu and select On. Briefly press the "i" key and the input password will appear on the display. Briefly press the + or - button to switch between

numbers 0-9. Press the "i" button briefly to confirm the option. After entering the password, the new password will be displayed in the interface again. Repeat the above procedure to enter a new password. If the new password matches the original password, the system notifies you that the password was entered successfully. Otherwise, you must repeat the first step to enter a new password and confirm the password again. After setting the password, the interface automatically returns to the original menu within 2 seconds. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.

### Changing the password:

After setting the password, another Reset Password option is added to the Password menu. Briefly press the + or - button and select the Reset Password menu. Briefly press the "i" button to confirm and enter the menu. At this point, the display prompts you to enter the current password in the interface. If you enter the wrong password ten times, the display will turn off automatically.

If you enter the correct password, the display prompts you to enter a new password. The next step is the same as entering the password. Once you have finished changing the password, the interface will automatically return to the original menu within 2 seconds. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.

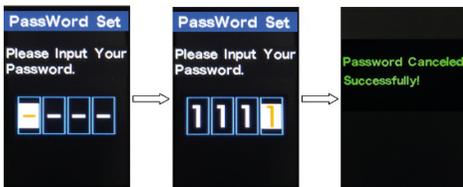


### Turn off password:

Enter the Password menu, select Off and briefly press the "i" key. At this point, the display prompts you to enter the current password in the interface. If you enter the wrong password ten times, the display will turn off automatically. If you enter the correct password, the display confirms the password and turns off the Input Password function. After 2 seconds, the display automatically returns to the original menu. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.

### (10) Set Clock

Briefly press the + or - button and select the Clock settings menu. Briefly press the "i" button to confirm and enter the menu. The time is displayed in 24-hour format. The cursor remains on the first digit of the hour. Briefly press the + or - button and select 0-2. Press the "i" button briefly to confirm the option. At this point, the cursor moves to the second hour digit. Briefly press the + or - button and select 0-9. Briefly press the "i" button to confirm the option. The cursor moves to the first digit of the minutes. Briefly press the + or - button and select 0-5. Briefly press the "i" button to confirm the option. The cursor moves to the second digit of the minutes. Briefly press the + or - button and select 0-9. After selecting the option, briefly press the "i" button again to save the settings and return to Clock Settings. Briefly press the "i" button twice (less than 0.5 s) to return to the main interface or select BACK → EXIT.



## Access to the Information menu

In the Settings menu, briefly press the + or - button and select the Information menu. Briefly press the "i" button to confirm and enter the menu. You can use the menu to view all information, but you cannot edit or interfere with it.

(1) **Wheel** - circumference, Informativ only cannot be modified.

(2) **Speed Limit** - Informativ only cannot be modified.

### (3) Battery info

| Content        | xplanation                  |
|----------------|-----------------------------|
| Temp           | Current temperature in (°C) |
| TotalVolt      | Voltage (V)                 |
| Current        | Discharge (A)               |
| Res Cap        | Remaining Capacity (A/H)    |
| Full Cap       | Total Capacity (A/h)        |
| RelChargeState | Default Loader Status %     |
| AbsChargeState | Instant charge (%)          |

### (4) Error codes

Briefly press the + or - button and select the Error Codes menu. Briefly press the "i" button to confirm and enter the menu. E-CODE, it displays information about the last 10 errors. E-CODE 1 displays information about the last error. E-CODE 10 displays information about the tenth error. A maximum of 10 entries can be stored in the memory. Error message 00 means that no error has occurred.

Briefly press the + or - button and select the Battery information menu. Short press the "i" buttons confirm the option and enter the menu. Select Next Page and confirm by briefly pressing the "i" button to enter the next menu. If no data is available because the battery does not support the Battery Info feature, -- appears on the display. You can see the individual information and its explanations in the table below:

| Content            | xplanation                                    |
|--------------------|---|
| Cycle Times        | Charging cycles (number)                      |
| Max Uncharge Time  | Maximum time in which no charge was made (Hr) |
| Last Uncharge Time | Last Uncharge Time                            |
| Total Cell         | Number (individual)                           |
| Cell Voltage 1     | Cell Voltage 1 (m/V)                          |
| Cell Voltage 2     | Cell Voltage 2 (m/V)                          |
| Cell Voltage n     | Cell Voltage n (m/V)                          |
| HW                 | Hardware Version                              |
| SW                 | Software Version                              |

See the error code table to find out what each code means.

The display may show e-bike faults. As soon as an error is detected, the corresponding symbol appears on the  display. Additionally, one of the following codes appears.

(see page 34)

# BLACK AND WHITE LCD DISPLAY

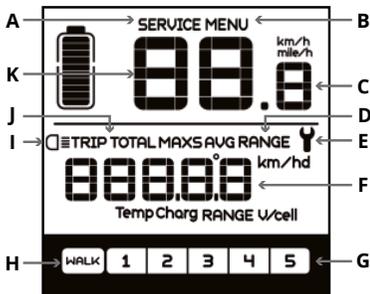


**Model: Model DP C07**  
*model series 5.8*

## Specifications

|                        |                       |
|------------------------|-----------------------|
| Display:               | LCD, 3"               |
| Weight :               | 185 g                 |
| Dimensions :           | 82x94x75 mm           |
| Handlebar holder Ø:    | 22,2 / 25,4 / 31,8 mm |
| Rated voltage:         | 36V / 43V / 48V       |
| Operating temperature: | -20°C - +45°C         |
| Protection class:      | IP 65                 |

## DISPLAY DESCRIPTION



- A** - maintenance warning
- B** - menu
- C** - speed display
- D** - display mode selection (TRIP, TOTAL, MAXS, AVG, RANGE, C)
- E** - error symbol
- F** - data display mode (TRIP, TOTAL, MAXS, AVG, RANGE, C)
- G** - assistance level (1 - 5)
- H** - walk assistant (WALK)
- I** - display illumination/backlight indicator (only displayed when active)
- J** - display mode selection (TRIP, TOTAL, MAXS, AVG, RANGE, C)
- K** - battery charge level (displays 10 levels at maximum charge; 1 level = 10% capacity)

## Key Definitions:



- A** - button + (increase assistance)
- B** - button - (decrease assistance)
- C** - switch on display illumination / backlight
- D** - on / off button
- E** - data display option (TRIP, TOTAL, MAXS, AVG, RANGE, C)

## OPERATION

### On / off button

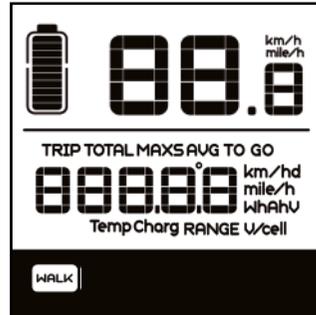
Turn on the power (battery), press and hold the button  for 2 seconds, and turn on the display. Press and hold the button again to turn off the display. If the bike is not used, the display will turn off automatically after 5 minutes. The switch-off time can be set in the Auto Power Off menu.

### Pedal assistant assistance level selection:

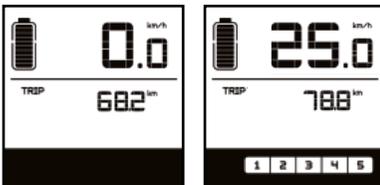
In manual mode, briefly press the  or  buttons and set the desired pedal assist level. The lowest level is 0, the highest level 5. The default setting after turning on the display is 1. Level 0 is the motorless mode.

### Walking assistant mode

Pressing and holding the  button starts the Walking Assistant mode. The **WALK** mode symbol appears on the display. Release the  button to exit this mode.



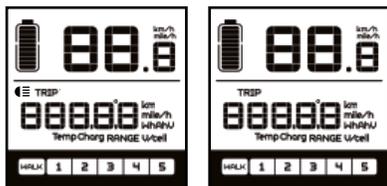
Walking assistant mode



Pedal assistant level

## Turn on the display backlight and lights

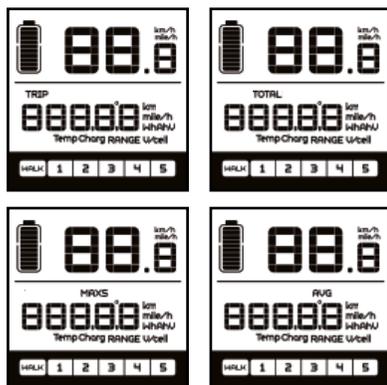
Press and hold the button  for 2 seconds to turn on the backlight and lights. Press and hold the button again to turn off the backlight and lights. If the display is turned on in a dark environment, the display backlight and lights turn on automatically. If the display backlight and light are turned off manually, they must be turned on again manually. To turn on the light, the e-bike must be equipped with lighting that is powered by the e-bike's battery.



Display backlight / light on and off.

## Switching the data display mode

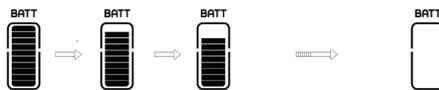
By briefly pressing the  button, you can switch between the individual modes in the following order: distance traveled (TRIP) → total distance (TOTAL) → maximum achieved speed (MAXS) → average speed (AVG) → remaining distance (RANGE) → energy consumption Calories (C).



Data display

## Battery charge indicator

The battery charge level (displays **10** bars at maximum charge; **1 bar = 10% of capacity**). If it is discharged, the outline of the battery will start flashing. The battery must be charged immediately.



| Number of Segments | Charge in Percentage | Number of Segments | Charge in Percentage | Number of Segments | Charge in Percentage |
|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|
| 10                 | ≥90%                 | 6                  | 50%≤C<60%            | 2                  | 15%≤C<25%            |
| 9                  | 80%≤C<90%            | 5                  | 45%≤C<50%            | 1                  | 5%≤C<15%             |
| 8                  | 70%≤C<80%            | 4                  | 35%≤C<45%            | flashing           | C<5%                 |
| 7                  | 60%≤C<70%            | 3                  | 25%≤C<35%            |                    |                      |

Number of bars / Battery capacity in percent

## The parameter settings

After switching on the display, press the  button twice briefly (at 0.3 second intervals) and enter in the SETTINGS menu, in the same way (pressing the  button twice) you will leave the settings menu.



## Adjustable parameters:

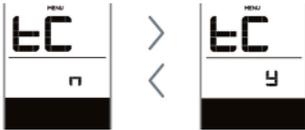
- Data reset TRIP, MAXS, AVG (**tC**)
- Km / mile setting (**S7**)
- Setting the sensitivity of the automatic display Backlight (**bLO**)
- Display brightness (**bLI**)
- Automatic display off (**OFF**)
- Maintenance warning (**nnA**)

## Locked parameters:

- Wheel diameter check (LUd)
- Speed limit check (SPL)
- Battery information (B01)
- Error codes (E00 - E09)

### Data reset TRIP, MAXS, AVG (tC)

Press the  button twice (at 0.3 second intervals) to enter the settings and set the value (tC) - TRIP, MAXS, AVG data reset. Briefly press the  or  button and select „n” (no) or „y” (yes). Briefly press  to confirm the selection and proceed to the next parameter setting. If „y” is selected, the data will be deleted, except for the total distance traveled (TOTAL). If the data is not deleted manually, the values will be saved.



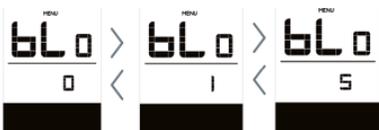
### Setting km/mile units (S7)

Briefly press the  or  button and select km/h for km or mile/h for miles. Briefly press  to confirm the selection and go to the setting of the next parameter.



### Setting the sensitivity of the automatic display backlight (bL0)

Briefly press the  or  key and select 0 - 5. Level 0 - off, level 1 is the lowest light sensitivity and level 5 is the highest light sensitivity level of the display. Briefly press  to confirm the selection and go to the setting of the next parameter.



### Display brightness (bLI)

Briefly press the  or  button and select a value from 1 to 5. Level 1 is the lowest brightness and level 5 is the highest brightness of the display. Briefly press  to confirm the selection and go to the setting of the next parameter.



### Automatic display off (OFF)

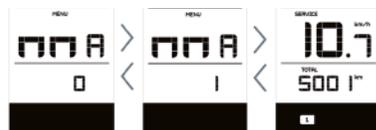
Briefly press the  or  button and select the value 0 - 9. Level 0 - off (display does not turn off automatically), level 1 (1 minute) - level 9 (9 minutes). Briefly press  to confirm the selection and go to the setting of the next parameter.



### Maintenance warning (nnA)

Briefly press the  or  button and select 0 (off) or 1 (on). Briefly press  to confirm the selection and go to the setting of the next parameter.

If the total distance traveled is 5,000 km (can be adjusted by the manufacturer), the display shows the **SEVICE** symbol. As soon as the display is switched on, the total mileage information will flash for 4 seconds, indicating the maintenance required.



### Wheel diameter check (LUd)

Information display cannot be modified.  
Press  to move to the next parameter setting.



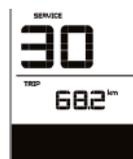
### Speed limit check (SPL)

Information only cannot be modified.  
Press  to move to the next parameter setting.



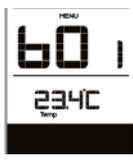
### Error code history (E00 - E09)

Displays information about the last 10 errors.  
E00 displays the latest error and E09 displays the oldest error. Press  to go to the next error. Press  after the last error E09 to go to the setting of the next parameter Data reset TRIP, MAXS, AVG (tC).



### Battery information (B01)

The battery does not support the Battery Info feature. Press  to move to the next parameter setting.



| Error | Declaration   | solution  |
|-------|---|---|
| 07    | Overvoltage protection  | 1. Remove the battery.<br>2. Re-Insert the battery.<br>3. If the problem persists, please contact your retailer.      |
| 08    | Error with the hall sensor signal inside the motor  | Please contact your retailer.   |
| 09    | Error with the motor phase's  | Please contact your retailer.   |
| 10    | The temperature inside the motor has reached its maximum protection value                 | 1. Turn off the system and allow the motor to cool down.<br>2. If the problem persists, please contact your retailer. |
| 11    | The temperature sensor inside the motor has an error                                      | 1. Turn off the system and allow the motor to cool down.<br>2. If the problem persists, please contact your retailer. |
| 12    | Error with the current sensor in the controller   | Please contact your retailer.   |
| 14    | The protection temperature inside the controller has reached its maximum protection value | 1. Turn off the system and let the motor cool down.<br>2. If the problem persists, please contact your retailer.      |
| 15    | Error with the temperature sensor inside the controller                                   | Please contact your retailer.   |
| 21    | Speed sensor Error  | Check the magnet position<br>If the problem persists, please contact your retailer.                                   |
| 22    | BMS Battery Error   | please contact your retailer.   |
| 23    | Control unit error  | Control unit must be replaced. Please contact your retailer.  |
| 24    | Unspecified error   | Please contact your retailer.   |
| 25    | Torque signal Error   | The torque sensor must be changed.<br>Please contact your retailer.   |
| 26    | Speed signal of the torque sensor has an error  | The torque sensor must be changed.<br>Please contact your retailer.   |
| 27    | Overcurrent from controller   | The control unit must be changed. Please contact your retailer.   |
| 30    | Communication problem   | Please contact your retailer. The connectors between display and the motor must be checked.                           |
| 35    | Detection circuit for 15V has an error  | Please contact your retailer.   |
| 36    | Circuit on the keypad has an error  | Please contact your retailer.   |
| 37    | WDT circuit is faulty   | Contact your retailer.<br>The control unit must be checked.   |

## MAINTENANCE AND STORAGE



*Never immerse the battery, charger or other electrical components in water (any liquids). Store the battery and e-bike in a well-ventilated and dry place, out of direct sunlight and other heat sources. Optimal temperature for storing e-bikes, especially batteries is 20 ° C.*

*Perform e-bike maintenance at regular intervals to ensure long product life. Always keep all components clean. If you wash the bike with water, always remove the battery from the e-bike before washing. We recommend drying the bike after each ride, especially all electrical components. If you use the e-bike in the winter, always clean the battery contacts from salt and moisture after riding. Before driving, always check that all bolts, nuts and pedal center are properly tightened. Also check brake function and tire pressure.*



*Do not dispose of the battery yourself. There is a risk of fire, explosion, electric shock and toxic substances may be released.*

*Do not store the battery in temperatures below 10 ° C and in extremely high temperatures above 40 ° C.*

*Do not transport the e-bike on a car carrier in heavy rain, higher speeds result in higher water pressure. We recommend using a bicycle transport case.*

*Bright colors incline more to fading. We recommend that you do not expose the e-bike to long-term sunlight, as the color may change.*

## SAFETY WARNING

Failure to observe safety warnings may result in damage to you or another person, your property or the property of others.

Always follow the safety warnings to avoid the risk of fire, electric shock and injury.

Before using the product, read the instruction manual of the electric bicycle thoroughly.

Always check for loose or damaged connections before riding. Check brake function and tire pressure.

In case of damage to electronic parts, seek professional service.

Neither the manufacturer nor the importer is liable for incidental or consequential damages or for damage caused directly or indirectly by the use of this product.

The following statement: the weighted emission sound pressure level-A to the driver's ears is less than 70 db (A).

The CRUSSIS e-bike user manual is legally obliged to be attached to each product.

The e-bike meets the requirements of EN 14619 (class A).

## NOTICE!



*Information on the disposal of electrical and electronic equipment*  
*The symbol on the product or in the accompanying documentation means that used electrical or electronic products must not be disposed of with communal waste. In order to dispose of the products correctly, please take the products to the designated collection points where they will be accepted free of charge. By disposing of products properly, you will help conserve valuable natural resources and help prevent potential negative impacts on the environment and human health that could result from improper disposal of waste. Improper disposal of this type of waste may result in fines in accordance with national regulations.*

## TROUBLESHOOTING



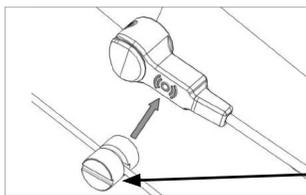
*If the e-bike is not working, first check if you can fix the problem yourself. Never interfere with the motor, battery or electrical connections. In this case visit a service center.*

### 1. The range of the e-bike is low even though the battery is fully charged.

The range of an e-bike is affected by many factors such as the battery capacity, the motor used, the route profile, the level of assistance used, the weight of the rider and his/her load, the rider's fitness condition, the style and smoothness of the ride, tire inflation and weather conditions. If the range of the e-bike is short in the long term, have the battery capacity measured.

### 2. The motor does not respond even when the system is turned on.

The motor does not respond even when the system is turned on. Check that the sensing magnet is in the correct position, see picture. Check the display cable. If the error persists, visit a service center.



The position of the magnet can be easily adjusted, there is a groove for a screwdriver on the magnet. It is loosened counterclockwise. After loosening, the magnet can be moved along the spoke. After reaching the correct position, tighten it again clockwise with a screwdriver.

The magnet on the spoke must be positioned exactly against the speed sensor as it is on the picture.

### 3. The e-bike cannot be turned on using the display controller

Turn on the battery with the battery button.  
Check the display cable connectors.  
If the error persists, visit a service center.

### 4. The charger does not charge the battery.

Verify that the charger is properly connected to the el. socket.  
Check for damage to the cables. If so, the charger must be replaced.

## E-BIKE WARRANTY

### Warranty inspection

It is recommended to perform a warranty inspection after driving about 100 - 150 km, at the latest within 3 months from the purchase of the e-bike. During the warranty service, the whole e-bike is checked: adjustment

brakes, gears, wheel alignment, bolt tightening check and electrical system check. The warranty inspection will be carried out at the dealer where you purchased the e-bike. The dealer will confirm the warranty service on the warranty card. If the warranty inspection is not carried out, the permanent damage to the e-bike may occur. In this case, the warranty may not be accepted.

### Complaint procedure

Always make a complaint of your e-bike or its components at the dealer where you bought the e-bike. When making a claim, please present the proof of purchase, the warranty card with the frame serial numbers filled in and battery, confirmed by a warranty inspection. Please also state the reason for the claim and a description of the fault.

### Warranty conditions

24 months frame and components of the e-bike - covers manufacturing, hidden and accidental material defects beyond normal wear and tear of use.

6 months battery life - the rated capacity of the battery will not drop below 70% of its total capacity within 6 months of the sale of the e-bike.

The warranty period is extended by the time the product has been under warranty repair.

**The warranty applies to the first owner only.**

### Warranty Terms and Conditions

The e-bike must be properly stored and maintained according to the attached manual. The product can be used only for the purpose for which it was manufactured. Please recharge the battery at regular intervals and store it in normal and customary conditions, as specified in the enclosed manual.

### The warranty expires

Expiry of the warranty period. If the product is damaged through the user's own fault (accident, improper handling or intervention in the electric bicycle, poor storage or use) or through normal wear and tear during use (wear and tear of brake pads/ brake blocks, chain, cassette/ freewheel, tyres, fork, etc.).

*Like all mechanical components, e-bikes are subject to wear and tear and high stress. Different materials and components may react differently to wear or fatigue stresses. If the design lifespan has been exceeded, the component or the e-bike as a whole may fail suddenly and cause injury to the rider. Any form of cracks, grooves or discolouration in the stressed area indicates that the lifespan of the component has been reached and it must be replaced.*

*In the event of any collision with a component, the user must have either the part or the entire e-bike checked by a qualified workshop or dealer.*



# EU PROHLÁŠENÍ O SHODĚ

## EU DECLARATION OF CONFORMITY - č. 2

### Souhrnné ujištění o vydání EU prohlášení o shodě dle požadavku směrnice 2006/42/ES

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a) **Identifikační údaje o osobě pověřené sestavením technické dokumentace:**

Obchodní firma: CRUSSIS electrobikes s.r.o.

Sídlo: K Březince 227/18, 182 00 Praha 8 - Březiněves

IČO: 248 19 671

b) **Popis elektrického zařízení:**

**Název:** Elektrokola, velikost rámu: 14"/15"/17"/18"/19"/20"/22"

**Modely:** e-Guera, e-Atlant, e-Fionna, e-Largo, e-Savela, e-Gordo, e-Cross, e-Cross low, e-Country, ONE-Guera, ONE-Largo, ONE-Cross, ONE-Cross low (výrobní číslo se neuvádí) s motory BAFANG M400 –MAX DRIVE (modely konstrukčně odpovídají modelům e-

Atlant 9.6, e-Guera 9.6, e-Largo 9.6, e-Fionna 9.6)

**Určeno k následujícímu použití:** Elektrokolo je určeno k rekreačním účelům pro spotřebitelské využití.

c) **Odkaz na harmonizované normy:** EN 15194:2019, EN ISO 12100, EN ISO 13849-1, EN 614-1 EN 55014-1, EN 55014-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN ISO 4210-2, EN 62321

d) **Odkaz na specifikace a právní předpisy:**

Zákon č. 90/2016 Sb. o posuzování shody stanovených výrobků při jejich dodávání na trh v platném znění.

Nařízení vlády č. 118/2016 Sb., o posuzování shody elektrických zařízení určených pro používání v určitých mezích napětí při jejich dodávání na trh (Směrnice 2014/35/EU).

Nařízení vlády č. 117/2016 Sb., o posuzování shody výrobků z hlediska elektromagnetické kompatibility při jejich dodávání na trh (Směrnice 2014/30/EU).

Nařízení vlády č. 176/2008 Sb. o technických požadavcích na strojní zařízení v platném znění (Směrnice 2006/42/ES).

Zákon č. 22/1997 Sb. o technických požadavcích na výrobky v platném znění.

Nařízení vlády č. 481/2012 Sb. o omezení používání některých nebezpečných látek v elektrických a elektronických zařízeních (Směrnice 2011/65/EU).

Výše uvedené strojní zařízení splňuje veškerá příslušná ustanovení směrnice 2006/42/ES včetně dalších výše specifikovaných evropských směrnic.

**Dvojčíslí roku, v němž byl stanovený výrobek opatřen označením CE: 22**

**Doplňující informace:**

Shoda posouzena na základě certifikátu č. MD-J-01906-21 ze dne 12.11. 2021 vydaného Strojírenským zkušebním ústavem, s.p., Hudcova 424/56b, Medlánky, 621 00 Brno (Identifikační číslo notifikované osoby: 1015). Podkladem pro vydání certifikátu je závěrečný protokol č. 31-10663/JZ ze dne 11.11. 2021 vydaný totožným zkušebním místem. Dále pak shoda posouzena dle výrobní a technické dokumentace. Výše popsany předmět EU prohlášení o shodě je ve shodě s výše uvedenými nařízeními vlády včetně nařízení vlády č. 481/2012 Sb. o omezení používání některých nebezpečných látek v elektrických a elektronických zařízeních. Toto EU prohlášení o shodě vydal na vlastní odpovědnost výrobce. Výše uvedený předmět EU prohlášení o shodě je ve shodě s příslušnými harmonizačními předpisy společenství.

V Praze dne: 20.09. 2022

Petr Výkruta  
Jednatel společnosti



# EU PROHLÁŠENÍ O SHODĚ

## EU DECLARATION OF CONFORMITY - č. 4

### Souhrnné ujištění o vydání EU prohlášení o shodě dle požadavku směrnice 2006/42/ES

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a) **Identifikační údaje o osobě pověřené sestavením technické dokumentace:**

**Obchodní firma:** CRUSSIS electrobikes s.r.o.

**Sídlo:** K Březince 227/18, 182 00 Praha 8 - Březiněves

**IČO:** 248 19 671

b) **Popis elektrického zařízení:**

**Název:** Elektrokola, velikost rámu: 15"/17"/18"/19"/20"/22"

**Modely:** e-Guera, e-Atland, e-Fionna, e-Largo, e-Cross, e-Cross low, ONE-Guera, ONE-Largo, ONE-Cross, ONE-Cross low (výrobní číslo se neuvádí) s motory BAFANG M500 (modely konstrukčně odpovídají modelům e-Largo 9.6, e-Guera 9.6, e-Atland 9.6, e-Fionna 9.6, e-Atland 11.6.)

**Určeno k následujícímu použití:** Elektrokolo je určeno k rekreačním účelům pro spotřebitelské využití.

c) **Odkaz na harmonizované normy:** EN 15194:2019, EN ISO 12100, EN ISO 13849-1, EN 614-1 EN 55014-1, EN 55014-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN ISO 4210-2, EN 62321

d) **Odkaz na specifikace a právní předpisy:**

Zákon č. 90/2016 Sb. o posuzování shody stanovených výrobků při jejich dodávání na trh v platném znění.

Nařízení vlády č. 118/2016 Sb., o posuzování shody elektrických zařízení určených pro používání v určitých mezích napětí při jejich dodávání na trh (Směrnice 2014/35/EU).

Nařízení vlády č. 117/2016 Sb., o posuzování shody výrobků z hlediska elektromagnetické kompatibility při jejich dodávání na trh (Směrnice 2014/30/EU).

Nařízení vlády č. 176/2008 Sb. o technických požadavcích na strojní zařízení v platném znění (Směrnice 2006/42/ES).

Zákon č. 22/1997 Sb. o technických požadavcích na výrobky v platném znění

Nařízení vlády č. 481/2012 Sb. o omezení používání některých nebezpečných látek v elektrických a elektronických zařízeních (Směrnice 2011/65/EU).

Výše uvedené strojní zařízení splňuje veškerá příslušná ustanovení směrnice 2006/42/ES včetně dalších výše specifikovaných evropských směrnic.

**Dvojitě číslo roku, v němž byl stanoven výrobek opatřen označením CE: 22**

**Doplňující informace:**

Shoda posouzena na základě certifikátu č. MD-J-01906-21 ze dne 12.11. 2021 vydaného Strojírenským zkušebním ústavem, s.p., Hudcova 424/56b, Medlánky, 621 00 Brno (Identifikační číslo notifikované osoby: 1015). Podkladem pro vydání certifikátu je závěrečný protokol č. 31-10663/JZ ze dne 11.11. 2021 vydaný totožným zkušebním místem. Dále pak shoda posouzena dle výrobní a technické dokumentace. Výše popsaný předmět EU prohlášení o shodě je ve shodě s výše uvedenými nařízeními vlády včetně nařízení vlády č. 481/2012 Sb. o omezení používání některých nebezpečných látek v elektrických a elektronických zařízeních. Toto EU prohlášení o shodě vydal na vlastní odpovědnost výrobce. Výše uvedený předmět EU prohlášení o shodě je ve shodě s příslušnými harmonizačními předpisy společenství.

V Praze dne: 20.09. 2022

Petr Výkruta  
Jednatel společnosti



# Notes

# Service records

**DONE:**

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**DAY:**

**STAMP AND SIGNATURE:**

**DONE:**

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**DAY:**

**STAMP AND SIGNATURE:**

**DONE:**

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**DAY:**

**STAMP AND SIGNATURE:**

**DONE:**

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**DAY:**

**STAMP AND SIGNATURE:**

# Warranty card

CRUSSIS electrobikes s.r.o., K Březince 227, 182 00 Praha 8

**E-BIKE MODEL:** .....

**FRAME SERIAL NUMBER:** .....

**Customer name:** .....

**Customer address:** .....

**Battery serial number:** .....

**DATE OF SALE:**

**SELLER'S STAMP AND SIGNATURE:**

## WARRANTY INSPECTION:

We recommend to visit the warranty service after the first 100 - 150 km,  
no later than 3 months after the purchase of the e-bike.

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**DATE OF WARRANTY INSPECTION**

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**SELLER**



# **CRUSSIS**

**We wish you a lot of  
pleasant and safe  
kilometers on your new  
e-bike!**

**Your CRUSSIS team**

**CRUSSIS electrobikes s.r.o.  
K Březince 227, 182 00 Praha 8  
IČO: 24819671**

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**[www.crussis.com](http://www.crussis.com)**