Operation and Maintenance

RIDGE | SIERRA

FANTIC

B0900214005
2026-00

Read this manual carefully before using the bicycle

TABLE OF CONTENTS

TABLE OF CONTENTS

INTRODUCTION

Dear Customer, thank you for purchasing our product. Our electric bicycle is a combination of innovation, design and comfort, and is entirely designed and manufactured in Italy. The innovative pedal-assist concept offers a new cycling experience. Pedal assistance improves riding comfort while preserving the natural feel of cycling. This bicycle has been manufactured using top-quality materials and components, in full compliance with all applicable standards.
Before using your new bicycle, we recommend that you read and familiarise yourself with the contents of this operation and maintenance manual.

For future reference, keep this booklet together with the booklet containing the safety warnings.

If in doubt about the operation or maintenance of any Fantic product, contact your dealer.

Fantic Motor

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www.fanticbikes.com

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SYMBOLS AND THEIR MEANING

Throughout the manual, there are symbols that are intended to draw attention to certain points of particular relevance. Their meaning is as follows:

PROHIBITION: indicates a prohibited action. Failure to comply with this warning may pose a risk to the safety of the user, third parties, and/or may cause damage to property or the vehicle.

DANGER: indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.

WARNING: indicates a potentially hazardous situation which, if not avoided, could result in serious injury.

CAUTION: indicates a potentially hazardous situation which, if not avoided, could result in damage to the rider and/or the vehicle.

NOTICE: indicates a situation that requires special attention to avoid possible damage to the vehicle or its components.

Information note on the procedure described and on the characteristics of the vehicle: it provides useful information to make the procedure easier and clearer.

Tightening torque: note showing one or more tightening torques values referred to the procedure described.
RESPECT THE PRESCRIBED TIGHTENING TORQUE: if this symbol is present, the correct tightening torque must be observed in order to ensure safety when using the vehicle. This is only possible using a torque spanner. If you do not have this tool, we recommend that you have qualified personnel carry out the work. Components installed with the incorrect torque can break or detach, causing serious falls. The correct torque is given on the last pages of this manual.

Measurement data: note showing the values of one or more measurements to be complied with or verified for the procedure described.

Equipment: note that informs the user of the need to use particular tools for the procedure described.

Disposal: This note informs the user that waste materials must be disposed of in accordance with environmental regulations.

VERSIONS

All Fantic electric bicycles are designed with technical characteristics and a preset maximum speed in accordance with the regulations in force in the country or region where they are marketed.

The table below shows the specific characteristics and the legally established speed limits:

Area	Brakes	Unit of Measurement	Speed Limit
EUROPE / others	front left and rear right	km	25 km/h (15.5 mph)
UNITED KINGDOM	front left and rear right	mi	15.5 mph (25 km/h)
USA	front left and rear right	mi	20 mph (32 km/h)
CANADA	front left and rear right	mi	20 mph (32 km/h)
CANARY ISLANDS	front left and rear right	km	25 km/h (15.5 mph)
CHILE	front left and rear right	km	32 km/h (20 mph)
NEW ZEALAND	front left and rear right	km	32 km/h (20 mph)
AUSTRALIA	front left and rear right	km	25 km/h (15.5 mph)
ARGENTINA	front left and rear right	km	32 km/h (20 mph)
ECUADOR	front left and rear right	km	25 km/h (15.5 mph)
GUATEMALA	front left and rear right	km	32 km/h (20 mph)
JAPAN	front left and rear right	km	25 km/h (15.5 mph)
SOUTH AFRICA	front left and rear right	km	25 km/h (15.5 mph)
BRAZIL	front left and rear right	km	32 km/h (20 mph)

Any modification or tampering with the speed limit of the electric bicycle is strictly prohibited. Such alterations will result in the loss of the vehicle warranty and the invalidation of its approval for road and public use.

INTRODUCTION

STANDARD EQUIPMENT

Your electric bicycle is supplied with the following standard equipment:

1. Right pedal
2. Left pedal
3. Battery charger
4. Battery charger power cable
5. LED lights
6. Front reflector
7. Rear reflector
8. Wheel reflectors
9. Cassette guard
10. “Use and maintenance” booklet

DOCUMENTATION SUPPLIED

Delivery certificate

When collecting the bicycle, make sure to check the following with your authorised Fantic dealer:

- That the delivery certificate has been fully completed in all its parts.
- That you have received all the documents listed in the delivery certificate.

If you have any questions regarding the care, maintenance or use of the product, please contact your authorised Fantic dealer.

Operation and maintenance manual

This Operation and Maintenance Manual contains all the information required to become familiar with your EPAC bicycle, understand its main components and related technology, and learn the precautions necessary for correct and safe use.

Consult and follow all instructions and warnings provided with the electric bicycle and its equipment.

The documentation supplied is an integral part of the bicycle and must be kept for the entire lifetime of the product.

If the bicycle is sold or transferred, all documentation must be handed over to the new user.

If this manual is lost or damaged, ask your dealer for a new copy.

Knowledge of and compliance with the warnings prevents the risk of accidents to yourself, other people, animals or property and allows you to use your bicycle in an environmentally friendly manner.

Any accident may result in loss of control of the bicycle, damage to the bicycle or its components and, most importantly, may expose the rider or bystanders to the risk of serious personal injury or death.

Accessory and equipment documentation

If accessories or compatible equipment have been purchased for your electric bicycle, make sure you have received from your authorised dealer all the related documentation supplied with them.

IDENTIFICATION PLATE

Each Fantic electric bicycle is equipped with an identification plate located on the underside of the frame.

It is recommended to note and communicate the serial number shown on the plate whenever requesting service or ordering spare parts.

INTENDED USE

This section provides all information regarding the intended use of your electric bicycle, including the types of terrain and road surfaces for which it is suitable, as well as the limits within which correct operation of the bicycle is permitted and guaranteed.

Classification and rideability according to road surface

Key:
√ Permitted.
X - Not permitted.
◊ Only if the additional equipment required by law is installed. Before using your EPAC bicycle on public roads, a qualified technician must install all optional devices required by traffic regulations (front and rear lights, horn, etc.).

Trip	Road surface	RIDGE TRAIL		RIDGE ALL MOUNTAIN		SIERRA			
		Sport	Race	Sport	Race	Sport Shimano	Sport SRAM	Race	Factory
Public road	Asphalt	√ ◊	√ ◊	√ ◊	√ ◊	√ ◊	√ ◊	√ ◊	√ ◊
Non-public road		√	√	√	√	√	√	√	√
Public path	Sand, gravel, soil, etc.	√ ◊	√ ◊	√ ◊	√ ◊	√ ◊	√ ◊	√ ◊	√ ◊
Non-public path		√	√	√	√	√	√	√	√
Off-road		√	√	√	√	√	√	√	√
Paved hiking trail	Easy terrain with slight to medium slopes fairly flat	√	√	√	√	√	√	√	√
Unpaved hiking trail	Ground with roots, steps, protrusions, etc.	√	√	√	√	√	√	√	√
Bike park	Dirt track with jumps on specially configured tracks	X	X	X	X	X	X	X	X
Downhill	Very steep downhills with specially configured slopes	X	X	X	X	X	X	X	X
Freeriding	Sports and artistic use, rapid descent on open terrain	X	X	X	X	X	X	X	X
Category According to **ASTM** Standards		**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**

MEANING OF THE DESIGNATIONS AND REGULATIONS

Meaning of "EPAC/Pedelec"

The acronym **EPAC** stands for **E**lectric **P**ower **A**ssisted **C**ycle, which is the English description of what is commonly referred to in Italian as a pedal-assisted electric bicycle.
To be classified as an **EPAC** (or **Pedelec**), an electric bicycle must comply with the provisions of the harmonised standard **EN 15194:2017** (Official Journal of the European Union, 19/03/2019) and with the requirements set out in the following machinery regulations:

- **2006/42/EC** (European Community).
- **Supply of Machinery (Safety) Regulations 2008** (United Kingdom and Canada).

In summary, to be classified as an EPAC, the electric bicycle must meet the following requirements:

- An auxiliary electric motor with a maximum continuous rated power of 0.25 kW;
- Electric propulsion assistance must stop when the rider stops pedalling;
- Progressive reduction of motor assistance as speed increases, with complete cut-off once the maximum speed of 25 km/h (15.5 mph) or 32 km/h (20 mph) is exceeded.

Interventions that alter the operating mode of your EPAC bicycle are prohibited and punishable by law.

In some states it may be necessary to verify that the vehicle characteristics meet the requirements of specific local regulations. Check the requirements before using the bicycle.

ASTM classification for bicycles

The acronym **ASTM** stands for **A**dvancing **S**tandards **T**ransforming **M**arkets, an independent international standards organisation operating in the industrial sector. This organisation defines standards for the classification and use of bicycles and mountain bikes.
This classification system is an international standard designed to define the different categories of bicycle use. It identifies the appropriate riding conditions, suitable terrain and intended use in order to determine and guarantee the suitability of a bicycle for specific applications.

The current classification standard is **ASTM F2043-13** (2018), which defines the following categories:

1. **Paved Roads (Road / Asphalt)**: Bicycles designed for use on smooth paved surfaces (asphalt), where the tyres must maintain continuous contact with the ground.
2. **Dirt and Gravel Roads (Gravel / CX)**: Includes the conditions of Category 1, but extends use to unpaved roads, gravel and trails with moderate gradients. Occasional contact with uneven terrain and brief loss of ground contact are permitted, with jumps or drops limited to a maximum of 15 cm (6 in).
3. **Rough Terrain (MTB XC / Trail)**: Includes the conditions of Categories 1 and 2, adding rough terrain, uneven trails and unimproved paths that require technical riding skills. Jumps and drops must be less than 61 cm (24 in).
4. **Very rough terrain (All-Mountain/Enduro)**: Includes the conditions of Categories 1, 2 and 3, as well as very rough trails and technical descents at speeds below 40 km/h (25 mph). Expected jumps must be less than 122 cm (48 in).
5. **Extreme terrain (Gravity/Downhill/Freeride)**: Includes the conditions of Categories 1, 2 and 4, as well as very rough trails and technical descents at speeds below 40 km/h (25 mph). There is no specific limit on jump height, and riding requires advanced technical skills.

STANDARDS OF LAW

Use the bicycle in accordance with its intended purpose.

All road users must comply with the traffic regulations in force in their country. In Italy and Germany, for example, no special permit or driving licence is required to ride an EPAC. An EPAC may be used on public roads and streets only if it is equipped with the devices required by law in the country of use (if these are not already installed on the bicycle). In both Italy and Germany, these requirements are regulated by the road vehicle approval regulations.

If your bicycle is not suitable for road use because it is not equipped with all the devices required by the regulations, it must be configured in accordance with the applicable legal requirements. To add all equipment, contact your dealer, they will be pleased to help you.

Who may ride this EPAC bicycle

The rider of the bicycle:

- In Europe, the minimum age is 15 years. In other countries, check the applicable local legislation where the bicycle is used.
- Must be able to ride a bicycle, meaning they must possess the basic knowledge required to operate a bicycle and have the necessary balance to ride and control it safely.
- Must have basic knowledge of the use of an electric bicycle and motor-assisted systems.
- When stationary, must be able to mount and dismount the bicycle safely.
- While seated, must be able to touch the ground with both feet.
- Must have a body size appropriate to the type and frame size of the bicycle.
- Must be physically and mentally capable of riding in road traffic, especially if the rider intends to use the bicycle on public roads and streets.

The bicycle cannot compensate for physical disabilities or a lack of physical fitness.

RULES OF USE

Proper use

Always wear an approved helmet and all appropriate protective clothing.

- Always wear a helmet of the correct size and keep the chin strap securely fastened.
- Use only bicycle helmets approved according to **ANSI**, **SNELL** or **CE** standards.
- Wear shoes that cannot slip off and that fit firmly on the pedals.
- Wear clothing that makes you visible and easily recognisable in traffic and that does not interfere with riding or with the operation of the bicycle.

It is important to become familiar with the use and maintenance of your electric bicycle.

- Read this manual carefully to learn how to operate all the controls of this bicycle.
- Check and follow the intended conditions of use for this bicycle (see the relevant section “Intended use” on page 5).
- Use only original Fantic spare parts or commercially available spare parts approved and recognised by Fantic. For further information, contact your authorised Fantic dealer.
- Always check with your authorised Fantic dealer which accessories are suitable and approved for installation on this bicycle.

Compliance with traffic regulations and the use of lighting devices are essential.

- When using the bicycle on public roads, check that all devices required by the regulations in force in the country of use are present and in proper working condition.
- For use on public roads at any time, install appropriate reflectors to meet the requirements of the **CPSC** (Consumer Product Safety Commission) or any other applicable local, state or federal regulations for bicycles.
- Always keep the lights switched on, even during the day, in order to increase visibility in traffic.

Improper use

Using the bicycle for purposes other than those intended may lead to dangerous riding situations, falls and accidents.

- Do not use the bicycle without the personal protective equipment required by law.
- Do not ride under the influence of alcohol or drugs.
- Do not wear sandals, high-heeled shoes, or any footwear that may interfere with pedalling.
- Do not ride the bicycle barefoot.
- Avoid wearing loose clothing that may become entangled in the bicycle’s moving parts.
- Never completely deflate the tyres, as this may cause damage and loss of traction.
- Never ride while wearing headphones or earphones. They may mask traffic noise and emergency vehicle sirens, distract you from your surroundings, and their cables may become caught in moving parts of the bicycle, causing loss of control.
- Do not install spare parts not approved by Fantic.
- Do not install accessories not approved by Fantic or not compatible with this bicycle.
- This bicycle is not approved for carrying a passenger. Do not attempt to carry another person.
- This bicycle is not approved for the installation of child seats. Do not attempt to install them and do not carry children on this bicycle.
- Never carry objects that may obstruct your vision, interfere with full control of the bicycle, or become entangled in its moving parts.

Under no circumstances should the bicycle be towed by another vehicle.

Modifications and tampering

Do not independently add equipment to the bicycle unless you have the necessary technical skills. Always rely on your authorised and qualified Fantic dealer.

The installation of spare parts, accessories or components that are not approved or recognised for your bicycle may cause damage to the bicycle and compromise its safe operation. This may result in dangerous riding situations, falls and accidents.

Do not attempt to modify or tamper with the frame or other structural parts of the bicycle.

Modifications that alter the geometry of the bicycle, or adjustments beyond the limits specified in this manual, may cause falls and serious damage.

Do not carry out adjustment, maintenance or repair operations without first consulting the “MAINTENANCE” chapter page 44 and contacting your authorised and qualified Fantic dealer.

Improperly performed adjustment and maintenance work may damage the bicycle, compromise its operation and create dangerous situations that may lead to falls and accidents.

Do not attempt to modify or tamper with the motor, battery or electronic control systems of this bicycle in order to alter the speed limit of the assistance system.

Such actions may cause serious accidents, falls and damage to persons or property, will invalidate the warranty, and may void the approval for use on public roads.

Users are strictly prohibited from connecting or using diagnostic or programming equipment on any electronic units of the bicycle (motor, battery or display).

Do not open or attempt to repair the battery, charger, electrical cables or drive unit yourself.

Such actions invalidate the warranty, and these components must be repaired exclusively by qualified technicians using only original spare parts.

Do not repaint or refinish the frame or other parts of the bicycle independently or improperly. Always rely on your authorised and qualified Fantic dealer.

Improper repainting may cause serious accidents and damage to persons or property.
Chemicals used during repainting may cause serious damage to the frame and bicycle materials, and may also conceal important structural damage.

Fire hazard

If flames or smoke are detected coming from the battery pack or motor, stop the bicycle immediately and notify the Fire Department at once.

- Keep the bicycle away from any heat source to prevent the battery components and the electric motor from overheating.
- Always store the bicycle in an environment with a temperature between −10°C and +50°C (14°F to 122°F).

Electrical hazards

The use of non-compliant, damaged or defective chargers and electrical cables may cause potentially fatal electric shocks.

- Use only the charger supplied with the bicycle.
- Do not disassemble the battery pack or the charger.
- Keep the bicycle and charger out of reach of children and animals.
- Avoid contact of the charger with water or other liquids.
- Never use the charger or batteries if they show any kind of damage.

RECOMMENDATIONS FOR SAFE RIDING

Basic information

- Ride in such a way that you always maintain full control of the bicycle.
- Carefully control your speed and allow greater stopping distance.
- Pedal in a way that allows you to be ready to brake at any time.

Do not perform tricks or stunts. Always ride carefully, prudently and at a reasonable speed, maintaining full control of the bicycle.

If possible, avoid riding when extremely tired, especially in bad weather conditions and low visibility, at dawn or dusk. Each of these conditions increases the risk of accidents.

- When riding a pedal-assist bicycle, make sure you are familiar with the starting behaviour, acceleration and manoeuvrability of the bicycle, which may differ significantly from those of a conventional bicycle without motor assistance.
- When you start pedalling, the power delivery may be sudden and unexpected. Sudden acceleration may catch you off guard and cause loss of control of the bicycle, increasing the risk of accidents.

During your first rides, consider the risks of falls and accidents resulting from the increased speed and greater weight of an electric bicycle.

While riding, do not focus your attention on the display, as this may lead to accidents.

- Adjust the display brightness so that important information such as speed or warning symbols can be clearly seen.

An incorrect display brightness setting may create hazardous situations.

Do not use the control unit as a handle.

If the eBike is lifted by holding the control unit, it may be irreparably damaged.

Do not place the eBike upside down, as the control unit or its mount may suffer irreparable damage.

Do not connect a charger to the eBike battery if the control unit or display indicates a critical error, as the battery may be damaged and could ignite, causing serious burns or other injuries.

- The use of the control unit with Wireless and/or Bluetooth® functions (if equipped) may cause interference with other devices and systems, including aircraft systems and medical devices (such as pacemakers or hearing aids). Possible harm to people or animals in the immediate vicinity cannot be completely ruled out.

Do not use the control unit with Wireless and/or Bluetooth® functions near medical devices, fuel stations, chemical plants, explosive environments or blasting areas.

Do not use the control unit with Wireless and/or Bluetooth® functions inside aircraft. Avoid prolonged use in close proximity to the body.

- Moving wheel assemblies may cause injuries to the hands or other parts of the body.

Keep hands and other body parts away from moving wheel assemblies.

- When driving, especially on long trips or during frequent braking, the brake discs may overheat to the point of causing burns if touched.

Do not touch the brake discs immediately after riding. Allow them to cool down for at least 5 minutes before touching them.

Do not cool them by pouring water or other

liquids onto them, as the brake discs may be damaged.

Do not overload the bicycle, as this may lead to malfunctions, falls and accidents. Do not exceed the maximum permissible load (see section "Weight limit" on page 7).

Riding on public roads

Always comply with all road rules and local traffic laws.

- Pay close attention to other road users, including motorists, motorcyclists, pedestrians and other cyclists;
- Always ride defensively and assume that other road users may not see you;
- Look ahead and be ready to slow down, brake in advance and avoid obstacles, vehicles and people in your path;
- Respect right-of-way rules, follow the direction of traffic and comply with all applicable local regulations;
- Stop at stop signs and traffic lights. Slow down and look left and right at intersections;
- Prefer using bicycle lanes or cycle paths, or ride as close as possible to the edge of the road;
- Use standard hand signals when turning or stopping.
- Before riding on multi-lane roads or pedestrian paths, become familiar with the handling characteristics of the electric bicycle in a safe and open area, such as an empty parking lot.

Remember that in the event of an accident involving motor vehicles, the bicycle is the most vulnerable. Be prepared to yield the right of way, even when you have priority.

Do not weave through traffic or make sudden movements that may surprise other road users.

- Always keep in mind that roads may be damaged and may present obstacles such as edges, curbs, bumps or similar hazards. In such areas, proceed slowly and with particular caution.

Night riding

Riding at night requires the use of specific equipment and devices, including:

> Front light (white);
> Rear light (red flashing);
> Clothing and accessories with reflective materials, and/or a reflective vest with reflective bands for arms and legs;
> A flashing light mounted on the helmet, bicycle or rider's body, positioned so that it is clearly visible and attracts the attention of other road users;
> Bicycle reflectors mounted on the frame and wheels.

Check that all night riding equipment complies with the legal requirements and provides adequate visibility. Contact an authorised dealer for further information or clarification.

- Assume that drivers and other road users may not see the bicycle, and always ride with increased caution;
- When riding at night or in low-light conditions, reduce your speed, avoid areas with heavy traffic and prefer familiar routes;
- Check that all devices are correctly positioned and securely fastened to the bicycle and clothing;
- Make sure that all lighting and visibility devices are not obstructed by other objects while riding;

The use of front and rear lights is mandatory and cannot be replaced by reflectors.

Riding in the rain

- In rainy or very humid conditions, the braking performance is significantly reduced, as is tyre grip.

When riding in the rain or in adverse weather conditions, ride with extreme caution, reduce your speed and apply the brakes earlier and more gradually.

- Rain also reduces visibility, and you should assume that motorists and other road users may not see the bicycle.
- Use the lighting devices as you would when riding at night (see the "Night Riding" section).

Riding on rough terrain

Changing conditions and the risks associated with off-road riding require special attention and specific riding skills.

Before using the electric bicycle on rough terrain, carefully check that your model is suitable for the intended use (see section "Intended use" on page 5).

Using the electric bicycle outside its intended category may cause serious damage to persons or property and will void the warranty.

- Start slowly on easy terrain and gradually develop your riding skills;
- Learn to use the bicycle safely before increasing speed or attempting more difficult terrain;
- Always wear protective equipment appropriate for the type of riding;
- It is recommended not to ride alone in remote areas;
- Always inform someone of your route and expected return time, even when riding with other people;

It is recommended to always carry the following items:

> A document for personal identification;
> Sufficient water and food for the planned ride and its expected duration, as well as cash for possible refreshment stops;
> A mobile phone and a satellite positioning device, to handle any emergency with rescue services;

When riding in natural environments, always remember to:

- Comply with local laws regulating where and how off-road riding is permitted, and respect private property;
- Adopt a riding style that does not frighten or endanger other cyclists, hikers, riders or animals encountered on the trail;
- Always be prepared and properly equipped to deal with mechanical failures or breakdowns that may occur during off-road riding;
- Avoid contributing to soil erosion by riding recklessly in mud or causing unnecessary wheel spin;
- Avoid disturbing the ecosystem by shortening your route or taking shortcuts through vegetation or watercourses.

WEIGHT LIMIT

The weight limit indicates the maximum total load that the bicycle can carry and is defined and tested according to the structural capacity of the bicycle. This value includes the maximum weight of the rider, as well as any accessories or equipment attached to the structural parts of the bicycle.

Never exceed the maximum weight limits specified for your bicycle.

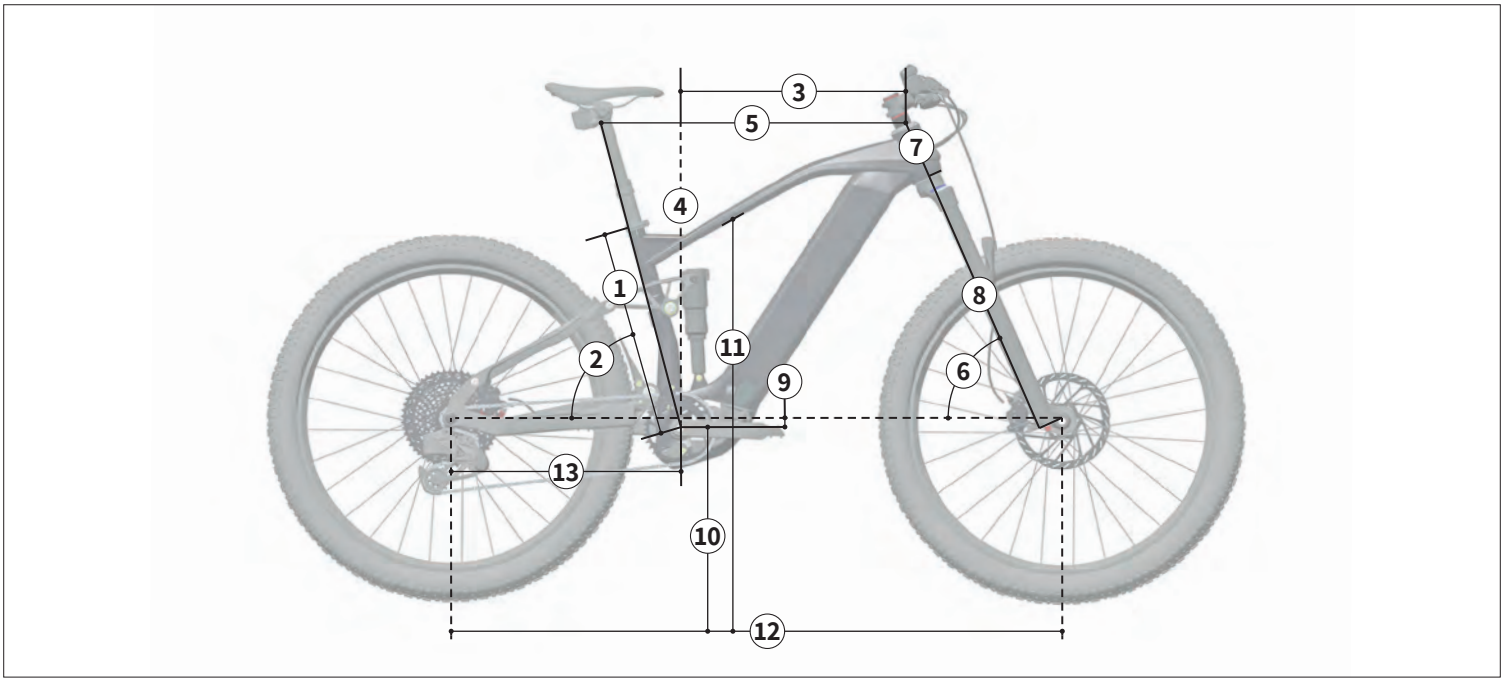
The installation of load-carrying accessories not approved by Fantic may pose risks and dangers, as the compatibility, reliability and safety of such accessories have not been tested on the bicycle. Failure to follow this warning may result in serious injury or death.

Weight limit for each model and version: 120 kg / 265 lb.

DESCRIPTION AND TECHNICAL DATA

DIMENSIONS AND GEOMETRY

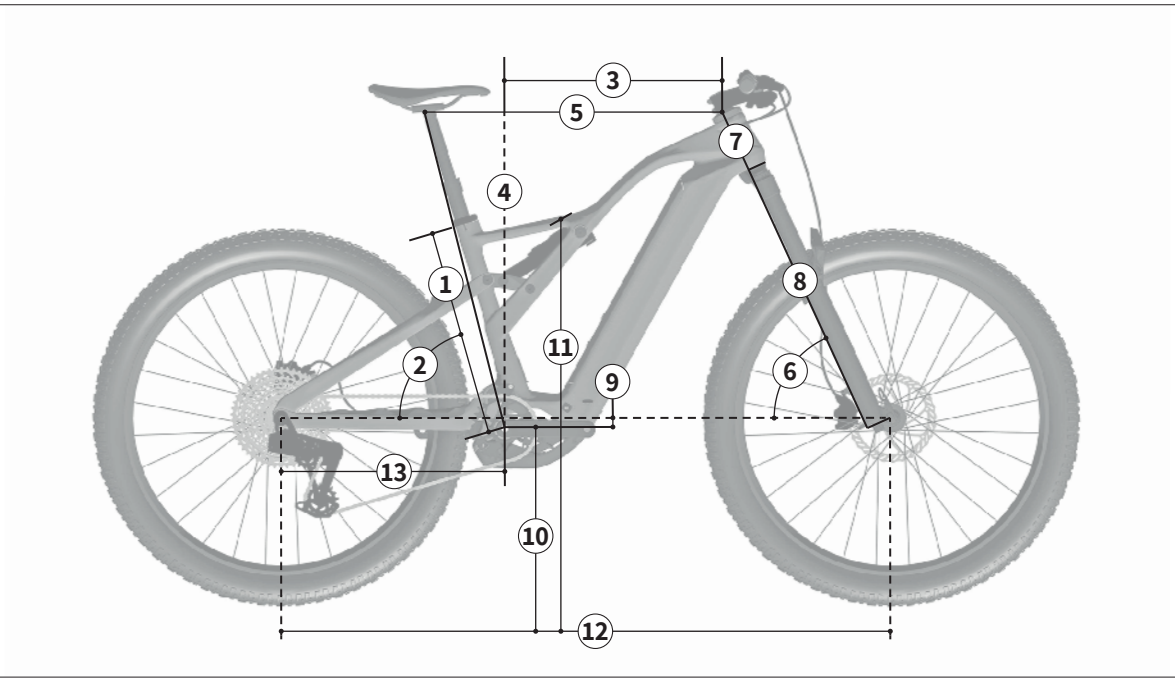
RIDGE Models



#	SIZE	UM	RIDGE TRAIL			RIDGE ALL MOUNTAIN		
			S	M	L	S	M	L
1	Seatpost length	mm	390	430	470	390	430	470
		inch	15.36	16.93	18.51	15.36	16.93	18.51
2	Seatpost angle	degrees	75.5	75.5	75.5	74.5	74.5	74.5
3	Reach	mm	428	462	486	417.5	449	475
		inch	16.86	18.19	19.14	16.44	17.68	18.71
4	Stack	mm	372	372	383	626	626	637.5
		inch	14.65	14.65	15.08	24.65	24.65	25.1
5	Top tube length	mm	586	620	646	586.5	618	649
		inch	23.08	24.41	25.44	23.1	24.34	25.56
6	Head tube angle	degrees	65.5	65.5	65.5	64.5	64.5	64.5
7	Head tube length	mm	110	110	120	110	110	120
		inch	4.34	4.34	4.73	4.34	4.34	4.73
8	Fork length	mm	569	569	569	592	592	592
		inch	22.41	22.41	22.41	23.31	23.31	23.31
9	Bottom bracket drop	mm	16.5	16.5	16.5	8.7	8.7	8.7
		inch	0.65	0.65	0.65	0.35	0.35	0.35
10	Bottom bracket height	mm	359.5	359.5	359.5	367	367	367
		inch	14.16	14.16	14.16	14.47	14.47	14.47
11	Stand-over height	mm	776	789	792	793	806	809
		inch	30.56	31.07	31.19	31.23	31.74	31.86
12	Wheel base	mm	1220	1253	1281	1226	1263	1291
		inch	48.04	49.34	50.44	48.27	49.73	50.83
13	Chainstay length	mm	472	472	472	472	472	472
		inch	18.59	18.59	18.59	18.59	18.59	18.59

DIMENSIONS AND GEOMETRY

SIERRA Models



#	SIZE	UM	SIERRA			
			S	M	L	XL
1	Seatpost length	mm	390	430	469	510
		inch	15.36	16.93	18.47	20.08
2	Seatpost angle	degrees	76.5	76.5	76.5	76.5
3	Reach	mm	429	449	477	501
		inch	16.88	17.66	18.78	19.73
4	Stack	mm	617	623	636	650
		inch	24.3	24.53	25.04	25.6
5	Top tube length	mm	576	597	629	656
		inch	22.68	23.51	24.77	25.83
6	Head tube angle	degrees	65	65	65	65
7	Head tube length	mm	105	110	125	140
		inch	4.14	4.34	4.93	5.52
8	Fork length	mm	571	571	571	571
		inch	22.49	22.49	22.49	22.49
9	Bottom bracket drop	mm	22	22	22	22
		inch	0.87	0.87	0.87	0.87
10	Bottom bracket height	mm	355	355	355	355
		inch	13.98	13.98	13.98	13.98
11	Stand-over height	mm	754	768	776	785
		inch	29.69	30.24	30.56	30.91
12	Wheel base	mm	1203	1225	1260	1290
		inch	47.37	48.23	49.61	50.79
13	Chainstay length	mm	448.5	448.5	448.5	448.5
		inch	17.66	17.66	17.66	17.66

DESCRIPTION AND TECHNICAL DATA

BICYCLE COMPONENTS

RIDGE Models

1. Front tire
2. Front disc brake
3. Front hub axle
4. Handlebar mount
5. Handlebar stem
6. Seat
7. Seatpost
8. Seatpost clamp
9. Rear shock absorber
10. Battery compartment
11. Battery compartment cover
12. Battery compartment lock
13. Charging port cover
14. Right pedal
15. Pedal crank
16. Left pedal
17. Front fork
18. Motor housing
19. Rim
20. Chain
21. Rear tire
22. Rear hub axle
23. Rear disc brake
24. Cassette
25. Gearshift group
26. Battery compartment cover release button

BICYCLE COMPONENTS

SIERRA Models

1. Front tire
2. Front disc brake
3. Front hub axle
4. Handlebar mount
5. Handlebar stem
6. Seat
7. Seatpost
8. Seatpost clamp
9. Rear shock absorber
10. Battery compartment
11. Battery compartment cover
12. Battery compartment lock
13. Charging port cover
14. Right pedal
15. Pedal crank
16. Left pedal
17. Front fork
18. Motor housing
19. Rim
20. Chain
21. Rear tire
22. Rear hub axle
23. Rear disc brake
24. Cassette
25. Gearshift group
26. Battery compartment cover retaining screw

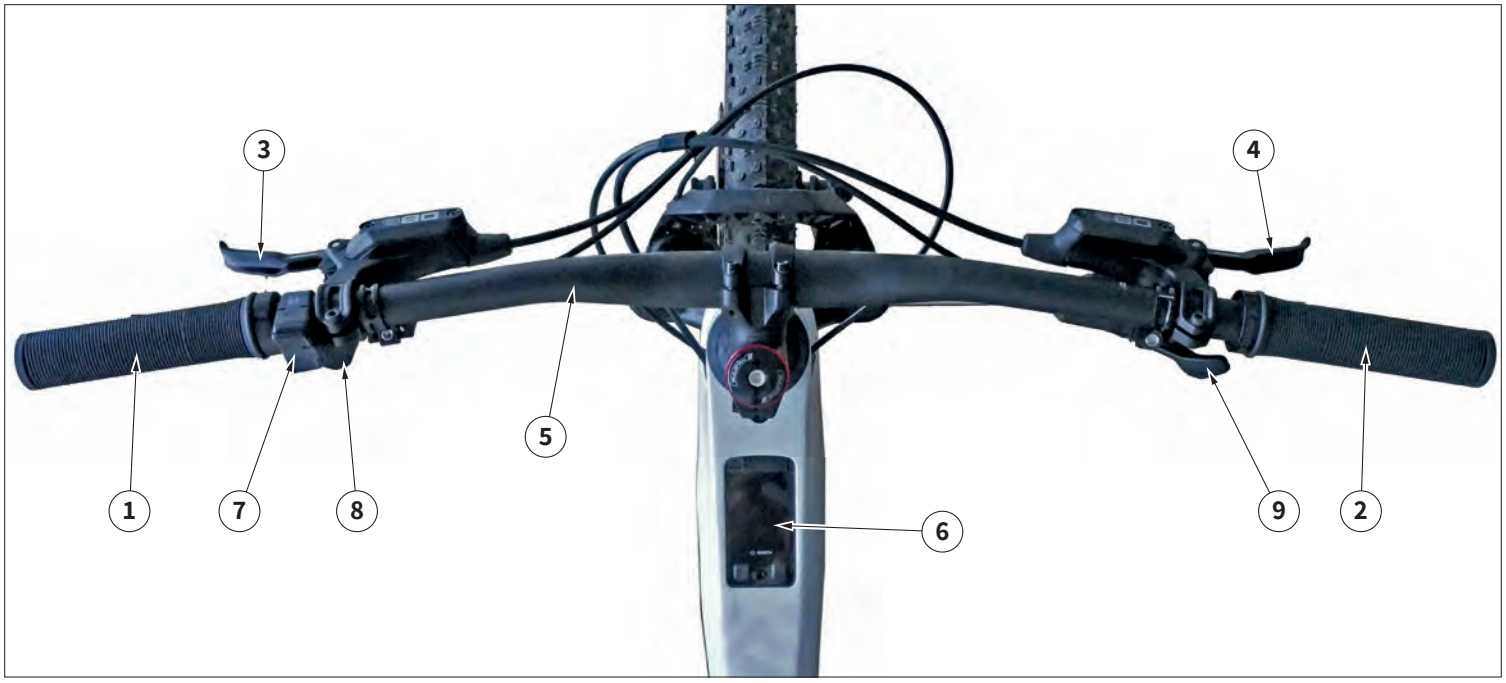
CONTROLS ON THE HANDLEBAR

RIDGE Models

1. Left knob
2. Right knob
3. Front brake lever
4. Rear brake lever
5. Handlebar
6. Display unit (dashboard)
7. Display control buttons
8. Seat height adjustment lever
9. Shifter

CONTROLS ON THE HANDLEBAR

SIERRA Models



1. Left knob
2. Right knob
3. Front brake lever
4. Rear brake lever
5. Handlebar
6. Display unit (dashboard)
7. Display control button pad
8. Seat height adjustment lever
9. Shifter

DESCRIPTION AND TECHNICAL DATA

TECHNICAL SPECIFICATIONS

Fantic reserves the right to make changes to the components, without prior notice, based on technical requirements and component availability on the market.

RIDGE Models

Component	RIDGE TRAIL		RIDGE ALL MOUNTAIN	
	Sport	**Race**	**Sport**	**Race**
Motor	Bosch Performance Line CX gen.5	Bosch Performance Line CX gen.5	Bosch Performance Line CX gen.5	Bosch Performance Line CX gen.5
Battery	Bosch PowerTube 800Wh	Bosch PowerTube 800Wh	Bosch PowerTube 800Wh	Bosch PowerTube 800Wh
Display	Bosch PURION 200	Bosch PURION 200	Bosch PURION 200	Bosch PURION 200
Frame	Aluminium, sizes: S - M - L	Aluminium, sizes: S - M - L	Aluminium, sizes: S - M - L	Aluminium, sizes: S - M - L
Fork	RockShox PSYLO SILVER RC e-bike - 29" 150mm	Suntour Auron 35 150mm	RockShox Zeb 170mm	RockShox Zeb Select 170mm
Rear shock	RockShox DELUXE Select 205X57,5 tr	RockShox DELUXE Select Plus 205X57,5 trunnion	RockShox DELUXE Select Plus 205X60 trunnion	RockShox SUPER DELUXE RC3 205X60 trunnion
Front chainring	Sram 34t T-Type	Sram 34t T-Type	Sram 34t X-Sync 2	Sram 34t X-Sync 2
Crank arms	FSA CK758/IS 165mm	FSA CK758/IS 165mm	FSA CK 762 WIDER 165mm	FSA CK 762 WIDER 165mm
Rear derailleur	Sram Eagle 70 T-Type 12V	Sram Eagle 90 T-Type 12v	Sram Eagle 70 T-Type 12V	Sram GX Eagle AXS 12v
Shifters	Sram Eagle 70 12V SINGLE CLICK MMX	Sram Eagle 90 12V SINGLE CLICK MMX	Sram Eagle 70 12V SINGLE CLICK MMX	Sram Pod AXS
Cassette	Sram Eagle 70/90 T-Type 12V 10-52T	Sram Eagle 70/90 T-Type 12V 10-52T	Sram Eagle 70/90 T-Type 12V 10-52T	Sunrace 12v 11-51T
Chain	Sram Eagle 70 T-Type 12V	Sram Eagle 70 T-Type 12V	Sram Eagle 70 T-Type 12V	Sunrace 12v
Front brake	Sram DB4	Sram Guide T	Sram DB6	Sram Code R
Rear brake	Sram DB4	Sram Guide T	Sram DB6	Sram Code R
Front disc	Sram CLEANSWEEP, 200mm - 6 bolt	Sram CLEANSWEEP, 200mm - 6 bolt	Sram CLEANSWEEP, 200mm - 6 bolt	Sram CLEANSWEEP, 200mm - 6 bolt
Rear disc	Sram CLEANSWEEP, 180mm - 6 bolt	Sram CLEANSWEEP, 180mm - 6 bolt	Sram CLEANSWEEP, 180mm - 6 bolt	Sram CLEANSWEEP, 180mm - 6 bolt
Front tyres	MAXXIS 29''x2.4'' REKON EXO	MAXXIS 29''x2.4'' REKON EXO	VITTORIA E MARTELLO 29X2.35	VITTORIA GOMA 29X2.4
Rear tyres	MAXXIS 29''x2.4'' REKON EXO	MAXXIS 29''x2.4'' REKON EXO	VITTORIA E MARTELLO 27.5X2.6	VITTORIA MORSA 27.5X2.6
Wheels	FANTIC RACING 29'' C27 Aluminum Tubeless Ready	DT Swiss H1900 29'' C30	FANTIC RACING 29''/27,5'' C30 Aluminum Tubeless Ready	Mavic e-Deemax 29''/27,5'' C30
Handlebar	PROMAX HB 318DB 760mm 31.8mm	PROMAX HB 318DB 760mm 31.8mm	FSA Comet 800mm-35 RISE15	FSA GRADIENT 800mm-35 RISE25
Handlebar mount	PROMAX DA205 60mm-31.8	PROMAX DA205 60mm-31.8	ZOOM 35mm-Ø35	FSA COMET 35mm-Ø35
Seatpost	Switch dropper seatpost – Ø 30.9 mm	Switch dropper seatpost – Ø 30.9 mm	Crankbrothers Highline 3 dropper seatpost – Ø 30.9 mm	SRAM Reverb AXS dropper seatpost – Ø 30.9 mm
Seat	Selle Italia Model-X Comfort superflow	Sella Italia NOVUS BOOST X CROSS	Selle Italia Model-X Comfort superflow	Selle Italia X-Bow Superflow
Grips	Switch Supergrip	Switch Supergrip	Switch Supergrip	Switch Supergrip
Use	Trail Full	Trail Full	All Mountain Full	All Mountain Full
Front inner tube	29” 2.0-3.0	29” 2.0-3.0	29” 1.95-2.5	29” 1.95-2.5
Rear inner tube	29” 2.0-3.0	29” 2.0-3.0	27.5” 2.5-3.0	27.5” 2.5-3.0

TECHNICAL SPECIFICATIONS

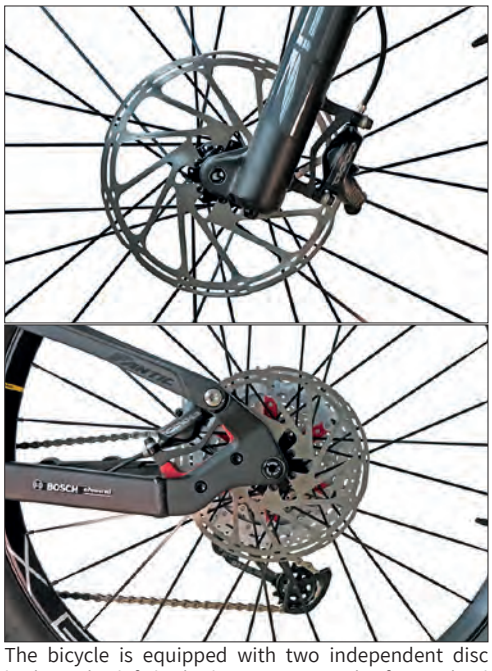
Fantic reserves the right to make changes to the components, without prior notice, based on technical requirements and component availability on the market.

SIERRA Models

Component	SIERRA			
	Sport Shimano	**Sport Sram**	**Race**	**Factory**
Motor	Bosch Performance Line CX gen.5	Bosch Performance Line CX gen.5	Bosch Performance Line CX gen.5	Bosch Performance Line CX gen.5
Battery	Bosch PowerTube 800Wh	Bosch PowerTube 800Wh	Bosch PowerTube 800Wh	Bosch PowerTube 800Wh
Display	Bosch System controller + Wireless Remote Mini	Bosch System controller + Wireless Remote Mini	Bosch KIOX400C + Wireless Remote Mini	Bosch KIOX400C + Wireless Remote Mini
Frame	Carbon frame, sizes: S - M - L - XL	Carbon frame, sizes: S - M - L - XL	Carbon frame, sizes: S - M - L - XL	Carbon frame, sizes: S - M - L - XL
Fork	RockShox PSYLO SILVER RC e-bike - 29" 160mm	RockShox PSYLO SILVER RC e-bike - 29" 160mm	RockShox LYRIK Select 160MM	RockShox LYRIK Ultimate 160MM
Rear shock	RockShox Deluxe Select T185x55 Air	RockShox Deluxe Select T185x55 Air	RockShox DELUXE SELECT+ T185X55	RockShox DELUXE SELECT+ T185X55
Front chainring	Shimano SM-CRE70 34T	Sram 34t T-Type	Sram 34t T-Type	Sram 34t T-Type
Crank arms	FSA CK 762 WIDER 165mm	FSA CK 762 WIDER 165mm	FSA CK758/IS 165mm	FSA CK758/IS 165mm
Rear derailleur	Shimano Deore 12v	Sram Eagle 70 T-Type 12V	Sram Eagle 90 T-Type 12v	Sram GX AXS 12v T-Type
Shifters	Shimano Deore 12v RAPIDFIRE PLUS	Sram Eagle 70 12V SINGLE CLICK MMX	Sram Eagle 90 12V SINGLE CLICK MMX	Sram Pod AXS MMX
Cassette	Shimano Deore 10-51T HYPER-GLIDE+	Sram Eagle 70/90 T-Type 12V 10-52T	Sram Eagle 70/90 T-Type 12V 10-52T	Sram GX AXS T-Type 12v 10-52
Chain	Shimano CN-M6100 12v	Sram Eagle 70 T-Type 12V	Sram Eagle 70 T-Type 12V	Sram GX T-Type 12v
Front brake	Shimano DEORE BL-M6200	Sram DB6	Sram Maven	Sram Maven Silver
Rear brake	Shimano DEORE BL-M6200	Sram DB6	Sram Maven	Sram Maven Silver
Front disc	Shimano SM-RT66 203mm - 6 bolt	Shimano SM-RT66 203mm - 6 bolt	Shimano SM-RT66 203mm - 6 bolt	Shimano SM-RT66 203mm - 6 bolt
Rear disc	Shimano SM-RT66 180mm - 6 bolt	Shimano SM-RT66 180mm - 6 bolt	Shimano SM-RT66 180mm - 6 bolt	Shimano SM-RT66 180mm - 6 bolt
Front tyres	MAXXIS 29''x2.4'' REKON EXO	MAXXIS 29''x2.4'' REKON EXO	MAXXIS 29''x2.4'' REKON EXO	MAXXIS 29''x2.4'' REKON 3C EXO
Rear tyres	MAXXIS 29''x2.4'' REKON EXO	MAXXIS 29''x2.4'' REKON EXO	MAXXIS 29''x2.4'' REKON EXO	MAXXIS 29''x2.4'' REKON 3C EXO
Wheels	FANTIC RACING 29'' C27 Aluminum Tubeless Ready	FANTIC RACING 29'' C27 Aluminum Tubeless Ready	DT Swiss H1900 29'' C30	FANTIC RACING 29'' C28 Carbon Tubeless Ready
Handlebar	Fantic Racing Aluminum 780mm-31.8 RISE15	Fantic Racing Aluminum 780mm-31.8 RISE15	Fantic Racing Aluminum 780mm-31.8 RISE15	FSA KFX UD Carbon 780mm-31.8
Handlebar mount	Fantic Racing Aluminum 60mm-31.8 RISE6°	Fantic Racing Aluminum 60mm-31.8 RISE6°	Fantic Racing Aluminum 60mm-31.8 RISE6°	FSA GRADIENT 50mm-31.8 RISE6°
Seatpost	Fantic Racing dropper seatpost Ø 31.6	Fantic Racing dropper seatpost Ø 31.6	Fantic Racing dropper seatpost Ø 31.6	Fantic Racing dropper seatpost Ø 31.6
Seat	Sella Italia Model-X EVO	Sella Italia Model-X EVO	SAN MARCO GROUND SHORT	SAN MARCO GROUND SHORT
Grips	Switch Supergrip	Switch Supergrip	Switch Supergrip	Switch Supergrip
Use	Trail Full	Trail Full	Trail Full	Trail Full
Front inner tube	29” 2.0-3.0	29” 2.0-3.0	29” 2.0-3.0	29” 2.0-3.0
Rear inner tube	29” 2.0-3.0	29” 2.0-3.0	29” 2.0-3.0	29” 2.0-3.0

BICYCLE DESCRIPTION

Brakes



The bicycle is equipped with two independent disc brakes. The left brake lever operates the front wheel brake, while the right brake lever operates the rear wheel brake.

Ride with extreme caution until the braking system has been properly bedded in.

The brakes must be bedded in before normal use. The general guideline is as follows: perform approximately 30 short braking actions until the bicycle comes to a stop, starting from a moderate speed of about 25 km/h (15.5 mph) or from the maximum speed indicated in section ..., depending on the country where the electric bicycle is marketed."Versions" on page 3

Once the braking system has been properly bedded in, very high braking performance will be available.

Excessively forceful use of the brake levers may cause the wheels to lock, increasing the risk of a fall.

Gear system

The bicycle is equipped with a chain drivechain, a single-chainring crankset and a 12-speed cassette (see "Technical specifications"). The gearshift offers the best ratio for each speed and helps to climb the slopes more easily.

Do not shift gears while the motor is under load. Reduce the pressure on the pedals before shifting, otherwise the chain may break.

Frame and fork

The bicycle is equipped with a frame featuring a rear shock and an integrated suspension fork.
Both the rear shock and the front fork are equipped with adjustment and lockout functions, as well as an air valve for adjustment according to the rider's weight. The suspension can be almost completely locked out.

Wheel assemblies

The wheel assemblies are referred to as "front wheel" and "rear wheel".

The units are composed of:

- hub;
- freewheel (also called cassette) (rear hub only);
- disc brake;
- spokes;
- rim;
- rim tape;
- tyre;
- inner tube with valve;
- wheel reflectors (optional).

Motor

The **Bosch®** drive unit of the system generation "**the smart system**" is designed exclusively to power the eBike and must not be used for any other purpose.

In addition to the functions described in this manual, software updates may be introduced at any time in order to correct possible errors or modify certain functions.

Motor noise emissions

The A-weighted sound emission level of the drive unit during normal operation is **< 70 dB(A)**. If the eBike is moved without authorisation, the drive unit emits an alarm sound as part of the **<eBike Alarm>** service. This alarm sound may exceed the emission level of **70 dB**(A) and reaches **80 dB**(A) at a distance of 2 m from the drive unit. The alarm sound is available only after activation of the **<eBike Alarm>** service and can be deactivated again via the **eBike Flow** app.

Drive Unit Performance Line CX (Gen. 5)	
Data	**Value**
Product code	BDU3840
Rated continuous power	250W
Max. torque	85(A)
Rated voltage	36 V
Operating temperature	-5°C ... +40°C 23°F ... +104°F
Storage temperature	+10°C ... +40°C +50°F ... + 104°F
Protection rating	IP55
Approximate weight	2.8 Kg
Bicycle lighting(B)	
Approximate voltage	12 V
Maximum power	18W

(A) : The preset value can be modified via the **eBike Flow** app. The maximum torque may vary depending on the specifications of the bicycle manufacturer.
The Bosch eBike system uses **FreeRTOS** (see www.freertos.org).
(B) : According to legal regulations, this function may not be available in all country-specific versions via the eBike battery. Using an incorrect type of lamp may cause irreparable damage.

BATTERY RANGE

The range may vary significantly depending on operating conditions and the age of the battery.

Factors affecting range

It is not possible to calculate the exact range before or during a ride, as the range is influenced by many different factors. Enter these factors in the Range Assistant to obtain a more accurate estimate of their effect on the range.

Scan this code to access the Range Assistant.

DEVICES AND SERVICES PROVIDED

Additional services

Bosch® control units are designed to control the electric bicycle and, where available, operate a display.
If you wish to use a smartphone as a display, **Bosch®** control units allow this through the **"eBike Flow"** app. To use all the functions of the control unit, a compatible smartphone with the **"eBike Flow"** app installed is required.

Bosch® control units can be connected to a smartphone via **Bluetooth®**.

Depending on the smartphone operating system, the **"eBike Flow"** app can be downloaded free of charge from the **Apple App Store** or the **Google Play Store**.

Scan this code with your smartphone to download the **"eBike Flow"** app directly.

Declaration of Conformity

Hereby, **Robert Bosch GmbH – Bosch eBike Systems** declares that the wireless system used in the control units available for this bicycle complies with **Directive 2014/53/EU**. The full text of the **EU Declaration of Conformity** is available at the following website:
www.bosch-ebike.com/conformity

Technical Specifications – Bosch® PURION 200 Control Unit

Available as standard equipment on all RIDGE models.

RIDGE models are equipped as standard with the Bosch® Purion 200 control unit with integrated controls.

Purion 200 Control Unit	
Data	**Value**
Model code	BRC3800
Maximum USB charging current (A)	600 mA
Charging voltage (A) USB port	5 V
USB charging cable (B)	USB Type-C® (C)
Charging temperature	0°C ... +40°C +32°F ... +104°C
Operating temperature	-5°C ... +40°C +23°F ... +104°C
Storage temperature	+10°C ... +40°C +50°F ... +104°C
Diagnostic interface	USB Type-C® (C)
Internal lithium battery	3.7 V 75 mAh
Protection rating	IP55
Dimensions (unit only)	85 x 54 x 60 (mm) 3.35 × 2.13 × 2.36 (in)
Weight	49 g 1.73 oz
Bluetooth®	Low Energy 5.0
BT: Frequency	2400 – 2480 MHz
BT: Transmission power	1mW

Certification information

The certification numbers (e-label) can be found in the status screen under: **<Settings>** » **<Information>** » **<Certificates>**. Browse through the available e-labels by briefly pressing the right scroll button .

If you wish to access the e-label information for the Purion 200, make sure that the eBike Flow app is not running on your smartphone (if installed).

Technical Specifications – Bosch® System Controller

Available as standard equipment for the SIERRA Sport models.

The SIERRA Sport models are equipped as standard with the Bosch® System Controller control unit and the Bosch® Remote Mini wireless controller.

System Controller Control Unit	
Data	**Value**
Model code	BRC3100
Operating temperature	-5°C ... +40°C +23°F ... +104°C
Storage temperature	+10°C ... +40°C +50°F ... +104°C
Internal lithium battery	3.7 V 75 mAh
Protection rating	IP55
Dimensions (unit only)	88 x 28 x 27 (mm) 3.46 × 1.1 × 1.06 (in)
Weight	35 g 1.23 oz
Bluetooth®	Low Energy 5.0
BT: Frequency	2400 – 2480 MHz
BT: Transmission power	≤ 1mW

Remote Mini wireless controller	
Data	**Value**
Model code	BRC3300
Operating temperature	-5°C ... +40°C +23°F ... +104°C
Storage temperature	+10°C ... +40°C +50°F ... +104°C
Battery	3 V 1x CR1620
Protection rating	IP55
Dimensions (unit only)	40 x 39 x 22 (mm) 1.57 × 1.54 × 0.87 (in)
Weight	16 g 0.56 oz
Bluetooth®	Low Energy 5.0
BT: Frequency	2400 – 2480 MHz
BT: Transmission power	≤ 1.9mW

DESCRIPTION AND TECHNICAL DATA

Technical Specifications – Bosch® KIOX400C Control Unit

Available as standard equipment for the SIERRA Race and SIERRA Factory models.

The SIERRA Race and SIERRA Factory models are equipped as standard with the Bosch® KIOX400C control unit and the Bosch® Remote Mini wireless controller.

Control unit KIOX400C	
Data	**Value**
Model code	BRC3200
Maximum USB charging current (A)	2 A
USB output voltage	5 V
USB charging cable (B)	USB Type-C® (C)
USB charging connection	USB Type-C® (C)
Charging temperature	0°C ... +40°C +32°F ... +104°C
Operating temperature	-5°C ... +40°C +23°F ... +104°C
Storage temperature	+10°C ... +40°C +50°F ... +104°C
Internal lithium battery	3.7 V 75 mAh
Protection rating	IP55
Dimensions (unit only)	44 x 86 x 20 (mm) 1.73 × 3.39 × 0.79 (in)
Weight	57 g 2.01 oz
Bluetooth®	Low Energy 5.0
BT: Frequency	2400 – 2480 MHz
BT: Transmission power	1mW

Remote Mini wireless controller	
Data	**Value**
Model code	BRC3300
Operating temperature	-5°C ... +40°C +23°F ... +104°C
Storage temperature	+10°C ... +40°C +50°F ... +104°C
Battery	3 V 1x CR1620
Protection rating (D)	IP55
Dimensions (unit only)	40 x 39 x 22 (mm) 1.57 × 1.54 × 0.87 (in)
Weight	16 g 0.56 oz
Bluetooth®	Low Energy 5.0
BT: Frequency	2400 – 2480 MHz
BT: Transmission power	≤ 1.9mW

(A) : Indicator for charging external devices.
(B) : Not included in the standard equipment.
(C) : USB Type-C® and USB-C® are registered trademarks of the **USB Implementers Forum**.
(D) : Valid only when the protective cover of the charging connection is closed.

Certification information

The certification numbers (e-label) can be found in the status screen under: **<Settings>** » **<Information>** » **<Certificates>**. Browse through the available e-labels by briefly pressing the selection button ▣ .

If you wish to access the e-label information for the Kiox 400C, make sure that the eBike Flow app is not running on your smartphone (if installed).

Technical Specifications – Bosch® PowerMore 250 Range Extender

Available as an optional accessory for all models and versions.

Range Extender PowerMore 250	
Data	**Value**
Product code	BBP3620
Rated voltage	36 V
Rated capacity	6.7 Ah
Energy	250 Wh
Operating temperature	-5°C ... +40°C +23°F ... +104°C
Storage temperature	+10°C ... +40°C +50°F ... +104°C
Permitted charging temperature	0°C ... +40°C +32°F ... +104°C
Weight	1.5 Kg 3.3 lb
Protection rating	IP55

FIRST USE

The bicycle can be used both in the traditional way and with pedal assistance. The electric motor of EPAC bicycles provides assistance only when the pedal-assist system is switched on and the rider begins pedalling. If pedalling stops, the motor automatically stops providing assistance.

For further information and recommendations regarding the intended use of your bicycle and the correct rules for use, refer to sections "Intended use" on page 5 and "Rules of use" on page 6.

For more information on using pedal assistance and to become familiar with the specific controls, refer to the chapter "USING PEDAL ASSIST". page 20.

Riding tips

Below are some recommendations for managing the electric bicycle during riding:

- Pay attention to the entry speed when approaching a corner and stop applying force to the pedals well in advance to adjust your speed. Otherwise, the speed may become excessive, causing loss of control and falls.
- Pedal at a comfortable and efficient cadence and look ahead.
- Adjust the gear ratio to remain within an optimal cadence range. Shift to a lower gear before stopping.
- Braking while changing direction may reduce your ability to control the bicycle.

Always keep your feet on the pedals and both hands on the handlebar while riding.

Remember that an electric bicycle is significantly heavier than a conventional bicycle without pedal assistance.

- Pay particular attention during different phases of use, such as stopping and parking, lifting or pushing the bicycle, and loading or unloading it from a car or bicycle rack.

Looking at and operating the display while riding may cause distraction and lead to accidents. Do not perform adjustments or configuration changes while riding.

BEFORE EACH USE

Before every ride it is recommended to perform the following checks:

- Verify that the saddle and seatpost adjustments are still correct for your body (see section page 40);
- Check that the handlebar is straight and correctly adjusted;
- Make sure the pedals rotate freely and are properly secured to the crank arms;
- If quick-release mechanisms are present, verify that they operate correctly and that the locking and release mechanism functions smoothly, without abnormal resistance;
- Check that the controls on the handlebar are positioned so they can be operated easily;
- Verify the correct operation of the electric assist system (control unit, display and motor);
- Verify the correct operation of the brakes;
- Check that the suspension responds properly;
- Check that the wheels rotate freely without friction or unusual noises. The rotation must be smooth and free from lateral wobble.

In addition, it is recommended to regularly perform the following mechanical safety checks:

- Carry out a visual inspection of all bicycle components to detect the presence of notches, fractures, deep cracks, mechanical damage or signs of abnormal wear;
- Check that the wheel fastening devices are not loose (see section page 37);
- Check that the tyres are in good condition (see section page 37) and inflated to the correct pressure (see section page 37).

If issues or visible damage are detected, contact your authorised dealer immediately.

Do not use the electric bicycle if visible damage or abnormal behaviour of the electric assist system is present.

AFTER EACH USE

At the end of every ride it is recommended to perform the following checks:

- Make sure that the moving parts of the bicycle are not wet or excessively dirty. If they are, the bicycle should be cleaned (see section page 43).

STORING THE BICYCLE

How to store the bicycle correctly:

- Store the bicycle in a dry place on a flat and stable surface;
- Lower the side kickstand and carefully lean the bicycle until it reaches a stable position, keeping the handlebar slightly turned toward the kickstand side;
- Check that the bicycle is stable;

Take care to store the bicycle in a suitable place away from people, children and animals, in order to avoid accidental impacts and possible damage.

- Alternatively, store it using one of the following supports:
  - › a floor bicycle stand;
  - › a wall mount for the frame.

Using a wall mount that suspends the bicycle by the front wheel is not recommended, as it may damage the bicycle.

WHAT TO DO AFTER A FALL

Pay special attention to the procedures to follow after a fall or accident.

If you are unsure how to proceed, contact your authorised dealer immediately for assistance.

- After a fall, invisible damage may occur to the electrical components, particularly to the motor and the battery pack;
- Check that the motor and battery pack of the bicycle show no deformation or abnormal heat on the surface of the components.
- Place the bicycle at a safe distance from any flammable materials and wait until these components have cooled down.

If flames, unpleasant odours or smoke are detected coming from the battery pack, move the bicycle to a safe distance and alert the fire department immediately.

- Afterwards, contact your authorised dealer to have a complete inspection of the bicycle carried out.

If the bicycle is repaired independently, failure to replace damaged components or replacement with non-approved components may lead to dangerous riding conditions, falls, accidents, personal injury or death, and damage to property, as well as voiding the warranty.

- After the bicycle has been properly restored and inspected by an authorised dealer, it is recommended to ride with particular caution for an initial period.

TRANSPORTING THE BICYCLE

Prepare the electric bicycle for transport by carrying out the following steps:

- Remove the battery pack and install the protective cover of the battery compartment (see section page 40);

Store the battery inside the vehicle in a dry place, not exposed to direct sunlight or other heat sources, and not in direct contact with other objects;

- Remove any optional accessories attached to the frame or handlebar;
- Remove the Range Extender (optional) from its frame mount;
- Remove any other objects (for example: water bottles, saddle covers, smartphone holders, seatpost-mounted racks, etc.);
- To transport the bicycle correctly and reduce its overall dimensions, it may be necessary to remove the front and/or rear wheel (see section page 39).

Transport inside a vehicle:

- Make sure that the drivetrain components (pedals, chain, brake rotors, etc.) are positioned so they are protected from movement, impacts or accidental damage;
- Do not place heavy objects on top of the electric bicycle.

Transport using an external bicycle carrier:

- Verify that the carrier is certified for electric bicycles;
- Check that the minimum load capacity of the carrier is at least **30 kg** (**66.1 lb**).

Using a roof-mounted bicycle carrier is not recommended, as the high weight of the electric bicycle may make lifting difficult and could cause damage, even serious, to property or persons.

- Use all the original load-securing systems provided by the bicycle carrier manufacturer;
- Check that the support arm does not press against delicate parts of the bicycle (e.g. cables, battery cover, motor covers, etc.).

In the case of long-distance transport or commercial shipping (air transport, train, ship or similar shipments), consider the following:

Lithium batteries are classified as dangerous goods (according to UN-T 3480 regulations) and require specific preparation before shipping.

- Check with your authorised dealer what requirements must be met to organise the shipment, specifying the type of transport to be used.
- Check with the third-party carrier responsible for the shipment regarding the availability of suitable packaging.
- Ensure that the battery is shipped separately from the electric bicycle with a charge level **not exceeding 30%**.

GEAR SHIFTING

Shift gears only after reducing the pressure on the pedals, in order to prevent the motor torque from damaging the chain while shifting from one sprocket to another.

The bicycle is equipped with a chain drivetrain with mechanical or electronic derailleurs. With each gear change, the chain moves onto a different sprocket.

Gear shifting can only be performed while riding.

- Shifting to a larger sprocket results in a lower gear ratio, reducing pedalling resistance and lowering the achievable speed, but making it easier to climb hills.
- Shifting to a smaller sprocket results in a higher gear ratio, increasing pedalling resistance and allowing higher speeds.

Depending on the bicycle model and version, different types of gear shifters may be installed.

It is recommended to check the technical specifications of your specific model.

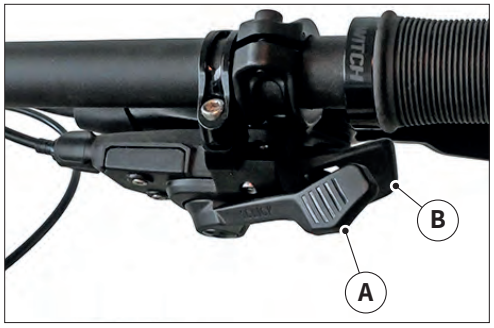
Below are the operating instructions according to the type of gear shifter.

Sram Eagle 70/90 12V SINGLE CLICK MMX

The SRAM Eagle 70 and SRAM Eagle 90 shifters are mechanical types.

They are installed as standard equipment on the following models:

Shifter	Model and version
SRAM Eagle 70	RIDGE Trail Sport
	RIDGE All Mountain Sport
	SIERRA Sport Sram
SRAM Eagle 90	RIDGE Trail Race
	SIERRA Race



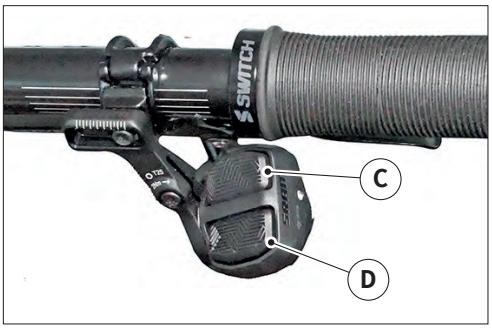
- Briefly press (one click) the shift lever “A” to shift to a larger sprocket (closer to the wheel) on the cassette. To shift across multiple gears, press the lever fully; the chain will move up by two or more sprockets.
- Briefly press (one click) the release lever “B” to shift to a smaller sprocket (further from the wheel) on the cassette. To shift across multiple gears, press the lever fully; the chain will move down by two or more sprockets.

Sram Pod AXS MMX

The SRAM Pod AXS MMX is an electronic shifter.

It is installed as standard equipment on the following models:

> RIDGE All Mountain Race
> SIERRA Factory



- Press the button “C” to shift to a larger sprocket (closer to the wheel) on the cassette. Press and hold to perform multiple shifts.
- Press the button “D” to shift to a smaller sprocket (further from the wheel) on the cassette. Press and hold to perform multiple shifts.

After a prolonged period of inactivity, the Pod controller must be reactivated.

- Briefly press the power button “E” on the shifter.

Shimano Deore RAPIDFIRE PLUS

The Shimano Deore RAPIDFIRE PLUS is a mechanical shifter.

It is installed as standard equipment on the following model:

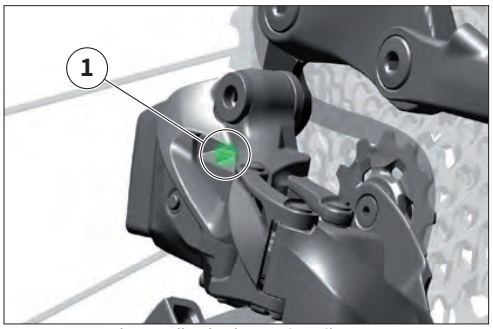
> SIERRA Sport Shimano

- Briefly press (one click) the shift lever “F” to shift to a larger sprocket (closer to the wheel) on the cassette. To quickly shift two gears, press the lever fully; the chain will move up by two sprockets.
- Briefly press (one click) the release lever “G” to shift to a smaller sprocket (further from the wheel) on the cassette. To quickly shift two gears, press the lever fully; the chain will move down by two sprockets.

DRIVECHAIN POWER SUPPLY

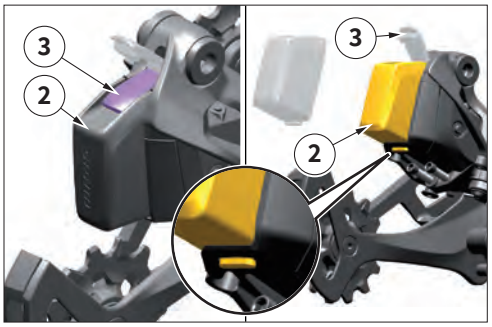
Sram GX Eagle AXS

The **SRAM GX Eagle AXS** drivetrain uses a rechargeable battery “2” mounted on the rear derailleur.
When the drivetrain is switched on, the LED “1” on the rear derailleur lights up and indicates the battery charge level depending on its colour.



GREEN: 5-25 hours (high charge level);
RED: 1.5-5 hours (medium charge level);
RED (flashing): <1.5 hours (recharge the battery as soon as possible).

- To recharge the battery, lift latch "3" and remove battery "2" from its housing.

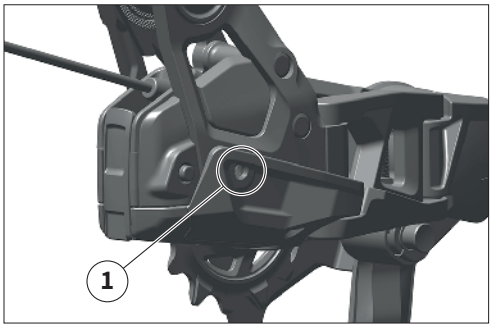


Use only the SRAM battery charger supplied with the bicycle.

- To install the battery, engage the lower part and then close the latch.

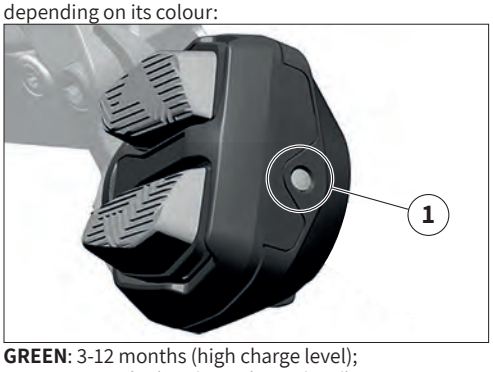
Sram GX AXS T-Type

The **SRAM GX AXS T-Type** drivetrain is directly connected to the main battery of the bicycle.
When the drivetrain is switched on, the LED “1” on the rear derailleur lights up, indicating the overall operating status and connection with the wireless shifter.



Sram Pod AXS MMX

The shifter uses a **NON**-rechargeable **CR2032** coin cell battery.
When the shifter is switched on, the LED “1” on the control unit lights up and indicates the battery charge level depending on its colour:



GREEN: 3-12 months (high charge level);
RED: 1-3 months (medium charge level);
RED (flashing): <1 month (replace the battery as soon as possible).

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Battery replacement

To replace the shifter battery, proceed as follows:

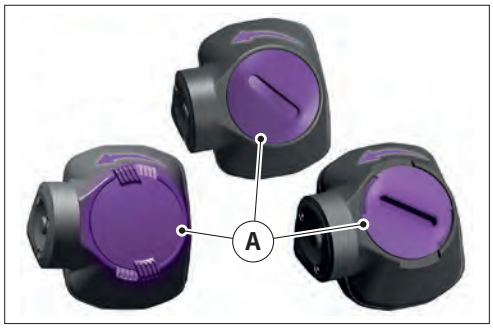
Make sure that the controller is clean before opening the battery cover. Use a damp cloth to remove dirt and debris from the controller. Clean components only with water and mild soap. Rinse thoroughly with water and allow all parts to dry completely before opening.

Refer to the battery manufacturer's website for instructions on proper use and handling.

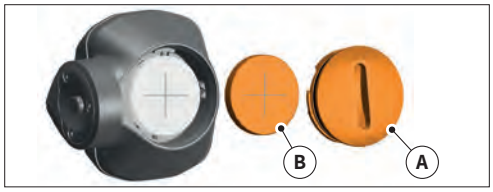
Keep the battery out of reach of children. Do not place the battery in your mouth. If swallowed, seek medical attention immediately.

Do not use sharp objects to remove the battery.

– Use your finger or a coin (if a slot is present on the battery cover "A") to turn the cover counterclockwise and open the battery compartment.



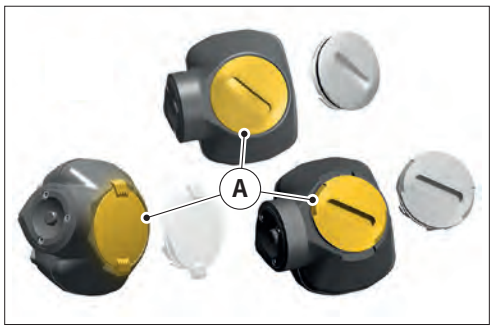
– Remove the cover "A" and the battery "B" from the shifter.



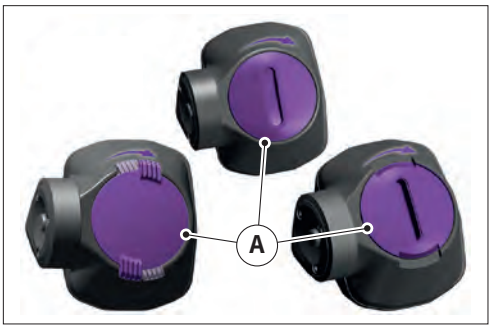
– Insert a new battery type **CR2032**, taking care to insert the positive pole inside the cover.

To prevent damage caused by moisture, do not remove the O-ring "C" from the battery cover and make sure it is correctly fitted on the cover.

– Insert the battery cover into its seat on the shifter.



– Turn the battery cover clockwise until it stops, using a finger or a coin, depending on whether a slot is present.



SRAM AXS SYSTEM

Bicycle models equipped with a **SRAM AXS series** drivetrain and a **Pod** controller can be customised and managed via the **SRAM AXS** app.

SRAM AXS App

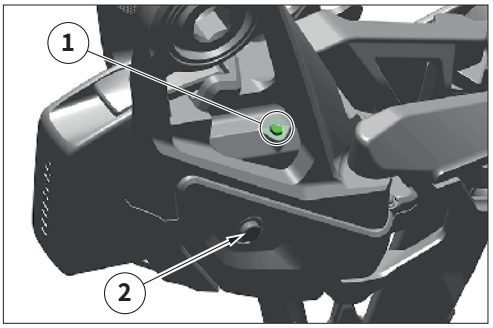
You can download the **SRAM AXS** app free of charge from any app store and create a personal **SRAM** account to register your bicycle components and customise your riding experience.
Through the app, you can:

– Connect components via Bluetooth to the **SRAM AXS** app;
– Create and customise multiple bike profiles;
– Monitor performance and system status;
– Customise component behaviour according to your riding style;
– Assign custom actions to the controls;
– Update **SRAM AXS** component firmware.

Pairing the Drivetrain with the Pod Controller

To pair the AXS drivetrain with the Pod shifter, follow this procedure:

– Press and hold the button "1" on the drivetrain until the LED "2" flashes slowly, then release it.



– Press and hold the button "4" on the Pod controller until the LED "3" (green) flashes rapidly, then release it.

– Briefly press the button "2" on the drivetrain to complete the pairing procedure, or wait 30 seconds.
– The LED "1" and LED "3" stop flashing;
– Check that the shifter operates correctly.

If one of the components does not respond, repeat the pairing procedure.

Do not perform the pairing procedure if the batteries of the devices have been removed and/or replaced.

Perform the pairing procedure only when replacing one of the system components.

USE OF BRAKES

To operate a brake, pull the corresponding lever towards the handlebar.

Maximum braking performance is achieved by applying both brake levers simultaneously. Approximately 65% of the total braking force is provided by the front brake. It is important to become familiar with the braking system:

– Start riding slowly and apply the brake levers with moderate pressure.
– Carry out this procedure on flat, traffic-free roads.
– Distribute the braking force by using both levers simultaneously.
– Pay particular attention when using the front brake lever: the presence of sand, gravel or similar surfaces may cause the front wheel to slip, increasing the risk of a fall.

Applying the brakes too forcefully can cause the wheels to lock, leading to skidding or overturning, and may result in falls and accidents.

Disc brakes develop their full braking performance only after a bedding-in period.
The general guideline is as follows:

– The brakes are considered bedded in after performing at least 30 complete and rapid stops, starting from a moderate speed (approximately 25 km/h).

Once the braking system is bedded in, greater braking performance is achieved.

USING PEDAL ASSIST

INTRODUCTION

This electric bicycle is equipped with a pedal-assist system that controls the vehicle's operating functions.
This section summarises the most important information for the correct use of this system.

The functions of the various system interfaces described in this chapter may vary depending on the version of the electric bicycle and are subject to change.

Fantic reserves the right to modify the functions at any time without prior notice, including the modification, removal and/or addition of features.

Basic information

- The electric bicycle motor assists pedalling only while the pedals are being turned;
- When the pedals are not being turned, assistance is inactive;
- The level of assistance always depends on the force applied and the pedalling cadence, not on the selected assistance level;
- The motor automatically disengages once the maximum speed prescribed for the country of use is exceeded (see details in section "Versions" on page 3);
- The electric bicycle can still be used without pedal assistance or if the system is not functioning.

Recommendations for proper use

- Regardless of the type of drivetrain fitted to your electric bicycle, it is recommended to briefly reduce pressure on the pedals before shifting;
- Selecting the correct gear improves motor response, speed and range for the same level of effort;
- Especially during initial use, it is recommended to try all pedal assistance levels and understand how the bicycle responds to your riding style and pedalling cadence.
- Become familiar with the system and its range under different conditions, starting with easy and relatively short routes.

BATTERY CHARGING

FIRE HAZARD! Use only the charger and cables supplied with the bicycle.

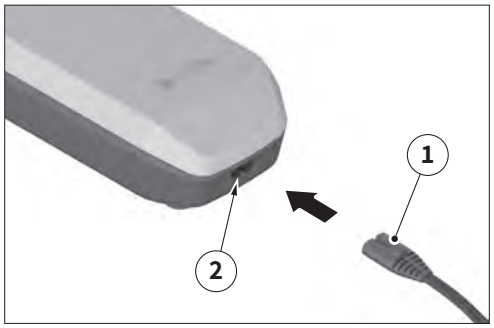
The supplied charger is the Bosch® BPC3400 model (4 A).

The supplied battery pack is the Bosch® BBP3880 PowerTube 800.

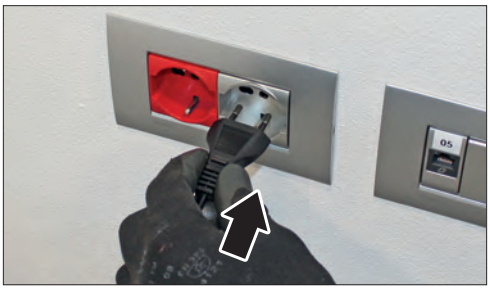
Do not use battery packs, chargers or power cables other than those supplied, as this may result in fire or personal injury.

Use the supplied charger only to charge the provided lithium-ion battery pack. It is not suitable for lead-acid, NiCd, NiMH batteries or other types of commercial batteries.

- Insert the connector "1" of the power cable into the socket "2" on the charger.



- Connect the power cable to the mains outlet.



Make sure that the mains voltage matches the voltage on the nameplate of the charger.

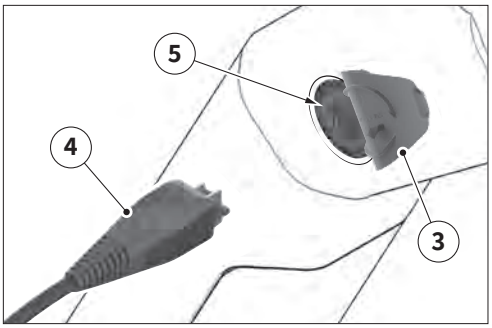
The battery can be charged either while installed on the bicycle or when removed.

Connection to the battery installed on the bicycle

- Clean the charging port cover "3".

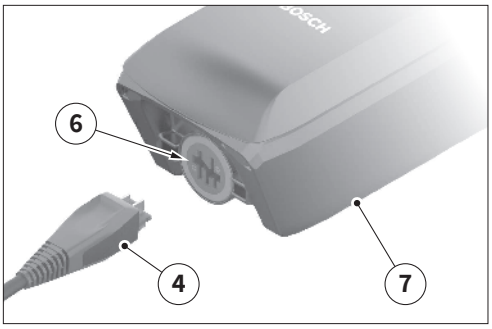
Avoid connecting the charger in the presence of moisture, wet parts or dirt.

- Lift the charging port cover "3" and insert the charging connector "4" into the charging socket "5".



Connection to the removed battery

- Connect the charging connector "4" to the charging socket "6" on the battery pack "7".



Charging procedure

The charging process begins as soon as the charger is connected to the mains and the battery.
Charging is possible only if the battery temperature is within the following operating range:

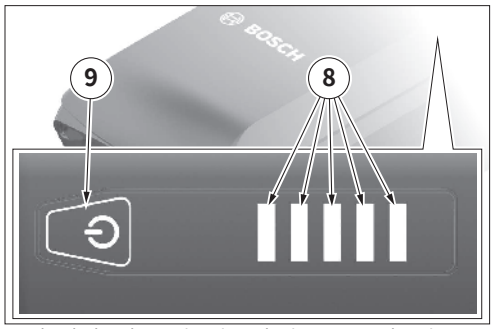
0°C – 40°C (32°F – 104°F)

Charging performance may be reduced if the battery and/or charger overheats.

During the charging process, the electric bicycle motor is deactivated.

The charging progress and the battery charge level can be monitored via the display, if available on your model and with the battery installed on the bicycle (see the relevant section). Once the battery is fully charged, the display switches off.
Alternatively, with the battery removed from the bicycle, the charge level can be checked using the dedicated indicator "8" on the battery pack.
During the charging process, the LEDs of the charge indicator "8" light up in sequence: each LED lit with a steady light corresponds to approximately 20% charge. A flashing LED indicates the next 20% currently being charged. Once the battery is fully charged, the LEDs switch off.

- This indicates that the charging process is complete.

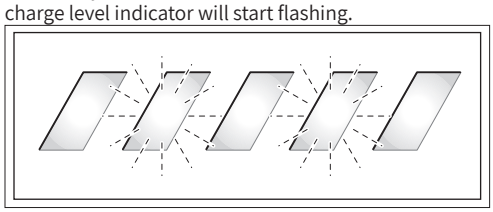


To check the charge level on the battery pack indicator, press button "9" for **5 seconds**.

During charging, avoid contact with sockets and the charger unless appropriate protection is used.

Never turn the pedals while the battery is charging.

If a battery fault occurs, the two indicated LEDs on the charge level indicator will start flashing.



In the event of a detected fault and/or other malfunction of the battery pack, do not attempt to open, tamper with or repair it, but contact an authorised dealer.

Disconnecting the charger

- Disconnect the charger from the mains supply and from the charging socket (on the bicycle or on the removed battery pack).

The control system and the battery pack of the electric bicycle switch off automatically once disconnected from the charger.

- If the battery was charged while installed, carefully close the charging port cover "3".

Charger storage

Store the charger and power cables in a dry, clean place, out of reach of children and animals

Keep the charger clean: dirt on the contacts may cause electric shock and damage to the bicycle's electronic components.

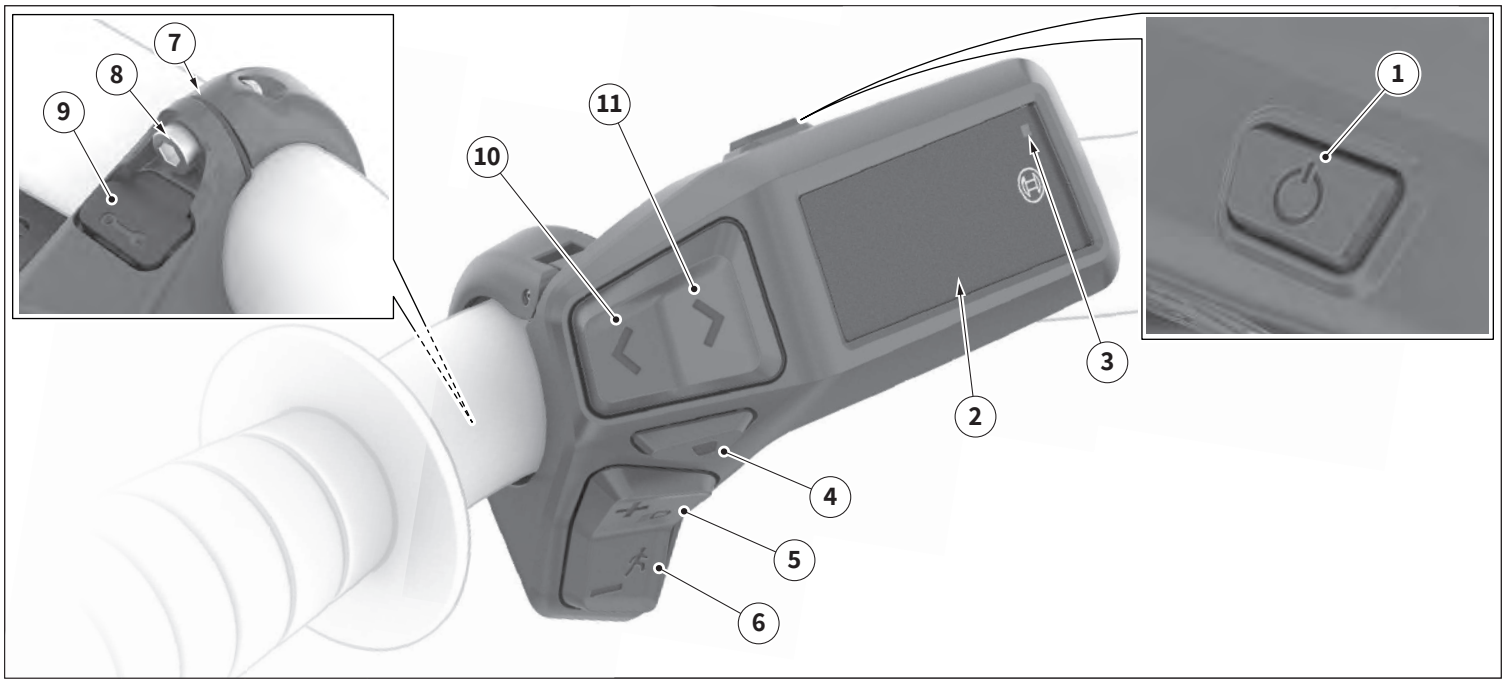
It is strictly forbidden for the user to connect or use diagnostic or programming equipment on the battery or charger.

In case of fault and/or malfunction of the charger, contact an authorised dealer.

For further information and details, refer to paragraph "Charger cleaning and storage" on page 44.

CONTROL SYSTEM (RIDGE VERSIONS)

All RIDGE versions are equipped as standard with the **Bosch® PURION 200** control system.



1. On/Off button
2. Display
3. Ambient light sensor
4. Selection button
5. (+) Button – Increase pedal assistance level / Bicycle lights
6. (–) Button – Decrease pedal assistance level / Walk assist / Hill start assist
7. Control unit mount
8. Fixing screw
9. Diagnostic port (for maintenance purposes only)
10. Left scroll button
11. Right scroll button

Requirements

The eBike can be switched on only if the following conditions are met:

– The battery is sufficiently charged (see section page 20);
– The speed sensor is correctly connected.

Software updates continuously introduce improvements and new features. Therefore, the illustrations and functions shown here may differ from the actual display.

Before initial use

To ensure full functionality of the control unit, remove the protective film from the display before first use. Leaving the protective film on the display may result in reduced functionality and performance of the control unit.

Before riding, make sure that the buttons of the control unit are easily reachable. It is recommended to position the plus/minus buttons almost vertically relative to the ground.

To align the **Purion 200** control unit, slightly loosen the fixing screw “8” of the mount “7” until the unit can be rotated on the handlebar. Align the control unit and tighten the fixing screw “8” carefully.

Control unit power supply

If a sufficiently charged eBike battery is inserted into the eBike and the system is switched on, the internal battery of the control unit is powered and recharged.

If the internal battery of the control unit has a very low charge level, it can be recharged using a power bank or another suitable power source via the diagnostic port “9”, using a USB Type-C® cable (charging voltage **5 V**; max. charging current **600 mA**).

The internal battery of the control unit is charged via an external power supply that complies with **ES1** and **PS2** limit values according to **IEC 62368-1**.

Always close the cover of the diagnostic port “9” to prevent the ingress of dust and moisture.

Switching the eBike On and Off

To switch on the eBike, briefly press the On/Off button “1”. After the start-up animation, the eBike is ready to ride.

The display brightness is adjusted automatically by the ambient light sensor “3”. Do not cover the ambient light sensor “3”.

The drive unit activates as soon as you start pedalling (except in **OFF** mode). The motor output depends on the selected riding mode.

During normal operation, assistance is automatically cut off when you stop pedalling or when a speed of **25 km/h** is reached (or the maximum speed permitted by local regulations; see section page 3). The drive unit automatically reactivates as soon as you resume pedalling and the speed falls below **25 km/h**.

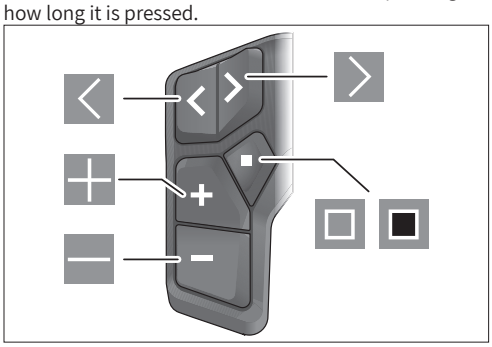
To switch off the eBike, briefly press (< 3 s) the On/Off button “1”.

If no power is requested from the drive unit for approximately **10 minutes** (e.g. when the eBike is stationary) and no button is pressed, the eBike switches off automatically.

Operation

The following overview shows the functions of the buttons on the **Purion 200** control unit.

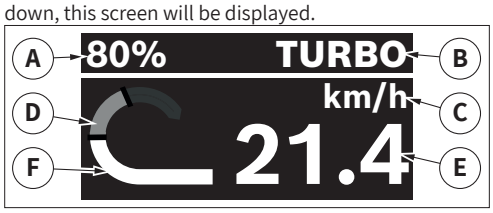
The selection button has two functions depending on how long it is pressed.



> Scroll left
> Scroll right
> Increase pedal assistance level / scroll up
> Decrease pedal assistance level / scroll down
> Selection button / Settings menu opening from the status screen (short press)
> Quick menu opening (from any screen except the status screen) (long press > 1 s)

The button can also be used to confirm error codes.

Home screen
If no other screen was selected before the last shutdown, this screen will be displayed.



A. eBike battery charge level (configurable)
B. Riding mode
C. Speed unit of measurement
D. Rider power
E. Speed
F. Drive unit power

By pressing the buttons ◁ or ▷ it is possible to access additional screens. These screens display statistical data and the eBike battery range.

Quick menu
The quick menu allows you to view selected settings, which can also be modified while riding.
The quick menu can be accessed by pressing and holding (> 1 s) the selection button ■ .

Access from the status screen is not possible.

The following settings can be configured in the quick menu:

> **Trip**
  › All data relating to the current trip is reset.
> **eShift** (optional)
  › The settings depend on the specific drivetrain installed. Here you can, for example, set your preferred cadence, provided the drivetrain supports this function.
> **Navigation** (optional)
  › Here you can select recent destinations as a new destination and/or end the current navigation session.

Depending on the equipment of your eBike, additional functions may be available.

Status screen
On the home screen, press the ◁ button to access the status screen.

A. eBike battery charge level (configurable)
B. Riding mode
G. Bicycle lights
H. Smartphone connection
I. Connection status
J. Settings menu
K. Time

Accessing the Settings Menu
The Settings menu can be accessed from the status screen. Briefly press the button ■ to open the Settings menu.

The Settings menu cannot be accessed while riding.

The **<Settings>** menu contains the following items:

> **My eBike**
  › The following menu items are available here:
  › **Reset**
    » Resets the range value.
  › **Auto trip reset**
    » Sets the time interval for automatically resetting the trip odometer.
  › **Wheel circumference**
    » Adjusts the rear wheel circumference or resets it to the default value.
  › **Service**
    » Displays the next service interval, if set by the bicycle dealer.
  › **Components**
    · Displays the installed components and their version numbers.
> **App connect**
  › Displays the connection status to the **eBike Flow** app.
> **My Purion**
  › The following menu items are available here:
  › **Status bar**
    » Selects one of the following displays: **<Battery>**, **<Time>**, **<Speed>** or **<eShift>** (optional).

<eShift> is available only in combination with a compatible eShift system.

  › **Shift recommendation**
    » Enables or disables the gear recommendation display.
  › **Time**
    » Sets the time.
  › **Format**
    » Selects between 12-hour and 24-hour formats.
  › **Brightness**
    » Adjusts the display brightness.
  › **Language**
    » Selects the preferred language: German, English, French, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Norwegian, Polish, Czech, Japanese, Traditional Chinese (Taiwan), Korean.
  › **Units**
    » Selects between metric and imperial measurement systems.
  › **Reset settings**
    » Resets all system settings to their default values.
> **Information**
  › Displays the following menu items:
  › **Contacts**
    » Displays contact information for Bosch eBike Systems.
  › **Certificates**
    » Provides access to certificates and e-labels.

Exiting the Settings Menu
Press the button ■ briefly to save the settings and exit the Settings menu.
Press and hold the button ■ (> 1 s) or press the button ◁ to exit the **<Settings>** menu without saving the settings.

Display configuration
<Display configuration> is available in the **eBike Flow** app under **<Settings>** » **<My eBike>**. The eBike must be switched on and the smartphone must be connected.
Through **<Display configuration>**, it is possible to customise the display content:

– Change the order of the screens
– Add new screens
– Modify or delete existing screens
– Add new screens after an update

Further information on **<Display configuration>** is available in the **eBike Flow** app.

Selecting the riding mode

Using the + button “5” (increase assistance level) and the – button “6” (decrease assistance level) on the control unit, the level of motor assistance during pedalling can be set. The riding mode can also be changed while riding and is displayed in colour.
Additional riding modes can be activated via the **eBike Flow** app or by an authorised dealer, provided they are supported by the bicycle manufacturer.

The available riding modes depend on the drive unit installed.

Riding mode	Warnings:
OFF	Motor assistance is deactivated. The eBike can be ridden like a conventional bicycle.
ECO	Provides assistance at maximum efficiency for maximum range.
ECO+	Range-optimised riding mode that activates motor assistance only above a certain riding input, for a natural riding feel and maximum range.
TOUR	Provides consistent assistance for long-distance rides.
TOUR+	Dynamic assistance for a natural and sporty riding experience.
eMTB	Optimised assistance for all terrains, with sporty start-up, improved dynamics and maximum performance.
eMTB+	Maximum dynamic assistance, perfectly balanced, with up to 100% more “Extended Boost” for an even more enjoyable ride.
SPORT	High-level assistance for sporty riding on hilly terrain and in urban traffic.
TURBO	Maximum assistance, even at high pedalling cadences, for sporty riding.
AUTO	Assistance automatically adapts to the riding conditions.
RACE	Maximum assistance for eMTB riding, with very direct response and maximum “Extended Boost” for the best performance in racing conditions.
CARGO	Powerful and consistent assistance for safely transporting heavy loads.
SPRINT	Dynamic assistance based on pedalling cadence, for sporty riding on eGravel and eRoad, with rapid acceleration and frequent climbs.

Riding mode adjustment

Allows limited adjustment of riding modes via the **eBike Flow** app. Enables adaptation of the eBike to individual needs.
Custom riding modes cannot be created. Only riding modes enabled by the bicycle manufacturer can be adjusted.
Depending on local regulations, adjustment of riding modes may not be permitted.
The following parameters can be adjusted:

– Pedal assistance level relative to the base value of the riding mode (within legal limits)
– Drive unit response
– Adjustment speed (within legal limits)
– Maximum torque (within the limits of the drive unit)

Note: the modified riding mode retains the same position, name and colour on all displays and control units.

Interaction between drive unit and drivetrain

Use the gears on the eBike in the same way as on a conventional bicycle. Regardless of the type of drivetrain, it is recommended to briefly reduce pressure on the pedals during gear shifting. This makes gear shifting easier and reduces drivetrain wear.
Selecting the correct gear allows higher speed and increased range with the same level of effort.
Follow the gear shift recommendations displayed on the screen.

Switching the bicycle lights On/Off

Before riding, always check that the bicycle lights are functioning correctly.
To **switch on** the lights, press button “5” for more than 1 second.

Activating/deactivating walk assist

The walk assist function can help when pushing the eBike. The walk assist speed is limited to a maximum of **4 km/h**. The value set by the bicycle manufacturer may be lower and, if necessary, can be adjusted by a specialised workshop.

– **The walk assist function must be used only when pushing the eBike.** Using walk assist when the

B0900214005 | 2026-00

wheels are not in contact with the ground may result in injury.
– **If the selected gear is too high, the drive unit may not be able to move the eBike or activate the rollback protection system.**

To **start** walk assist, press and hold the walk assist button “6” for more than 1 second, keep it pressed and follow the instructions displayed on the screen.
To **activate** walk assist, perform one of the following actions within 10 seconds:

– Push the eBike forward.
– Push the eBike backward.
– Move the eBike sideways in a rocking motion.

After activation, the drive unit starts providing assistance and the display indication changes.
When the walk assist button “6” is released, the function is paused. Walk assist can be reactivated within 10 seconds by pressing the walk assist button “6” again.
If not reactivated within 10 seconds, it switches off automatically.
Walk assist is always interrupted when:

– The rear wheel locks;
– Threshold limits cannot be exceeded;
– The crankset is blocked;
– An obstacle causes the crankset to rotate;
– Pedalling starts;
– press the pedal-assist increase + / bicycle lights button “5”, or press the On/Off button “1”.

The walk assist function includes a rollback protection system: even after use, the drive unit actively prevents backward movement of the eBike for a few seconds. As a result, the eBike cannot be pushed backwards without significant effort.
The rollback protection system is immediately deactivated by pressing the (+) button / lights button “5”.
The operation of the walk assist function is subject to country-specific regulations and may therefore differ from the description above or be disabled entirely.

Hill start assist activation/deactivation

The hill start assist function facilitates starting on inclines.
To activate hill start assist, place one foot on the pedal so that the eBike detects the intention to start. Then press and hold the hill start assist button “6” for more than 1 second.

Follow the correct sequence when activating hill start assist. If the hill start assist button “6” is pressed before placing a foot on the pedal, the walk assist function is activated instead.

Once hill start assist has been successfully activated, release the hill start assist button “6”. After a safe start, hill start assist deactivates automatically and riding continues in the selected riding mode. Hill start assist can be terminated at any time by removing the foot from the pedal.
It can then be reactivated within 10 seconds by placing the foot back on the pedal. Reactivation is indicated on the display.
It is not necessary to press the hill start assist button “6” again. If the hill start assist button “6” is pressed within 10 seconds, the countdown is reset, providing a new 10-second hill start assist activation window.
Hill start assist includes a rollback protection system: even after use, the drive unit actively prevents backward movement of the eBike for a few seconds, avoiding unintended rollback.

The operation of hill start assist is subject to country-specific regulations and may therefore differ from the description above or be disabled.

ABS – Anti-lock braking system (optional)

If the eBike is equipped with a Bosch eBike ABS **the smart system**, the ABS symbol lights up when the eBike is switched on.
After start-up, the ABS performs an internal function check and the symbol switches off.
In the event of a fault, the ABS symbol lights up and a warning message is displayed on the control unit. This indicates that the ABS is not active. The error can be confirmed using the selection button “4”, and the warning message will be cleared. The ABS symbol remains visible in the status bar, providing additional information about the deactivation of the ABS.

For further details on ABS and its operation, refer to the ABS user manual supplied with the bicycle.

Connecting a smartphone

To use the following eBike functions, a smartphone with the **eBike Flow** app is required.
The connection to the app is established via Bluetooth®.

Switch on the eBike and wait for the start-up animation. Do not start riding.

Start Bluetooth® pairing by pressing and holding the On/Off button “1” (> 3 s). Release the On/Off button “1” as soon as the pairing status is displayed.
Confirm the connection request in the app.

Activity tracking
To record activities, registration or login to the **eBike Flow** app is required.
To enable activity tracking, consent to the storage of location data in the app is required. Only then can activities be recorded in the app. Recording location data requires login with a user account.

eBike Lock

<eBike Lock> can be configured for each eBike via the **eBike Flow** app under **<Settings>** » **<My eBike>** » **<Lock & Alarm>**. A key is stored on the smartphone to unlock the eBike.
<eBike Lock> is activated automatically in the following cases:

– When the eBike is switched off via the control unit
– In case of automatic shutdown of the eBike

If the eBike is switched on and the smartphone is connected via Bluetooth®, or if the previously defined display is inserted into the mount, the eBike is unlocked.
<eBike Lock> is linked to the user account.
If the smartphone is lost, access can be restored by logging in via another smartphone using the **eBike Flow** app and the user account, and the eBike can be unlocked.
If the display is lost, all digital keys can be reset via the **<Lock & Alarm>** menu in the **eBike Flow** app.

If a setting is selected in the app that may affect <eBike Lock> (e.g. deleting the eBike or the user account), warning messages will be displayed first. Read the warnings carefully and follow the instructions provided (e.g. before deleting the eBike or the user account).

Configuring <eBike Lock>
The following conditions must be met to configure **<eBike Lock>**:

– The **eBike Flow** app must be installed.
– A user account has been created.
– No update is in progress on the eBike.
– The eBike is connected to the smartphone via Bluetooth®.
– The eBike is stationary
– The smartphone is connected to the internet.
– The eBike battery is sufficiently charged and the charging cable is not connected

<eBike Lock> can be configured in the eBike Flow app under the menu item **<Lock & Alarm>**.
The eBike drive unit provides assistance only if, when the eBike is switched on, the smartphone is connected via Bluetooth® or the display is inserted into the mount.
If the smartphone is used as a key, Bluetooth® must be enabled on the smartphone and the **eBike Flow** app must be running in the background. If **<eBike Lock>** is activated, the eBike can still be used without pedal assistance via the drive unit.

Compatibility
<eBike Lock> is compatible with all Bosch drive units of the smart system generation.

Operation
In combination with **<eBike Lock>**, the smartphone and display function as a key for the drive unit.
<eBike Lock> is activated when the eBike is switched off. When switched on, the eBike checks for the availability of a previously defined key. This is indicated on the **Purion 200** control unit by a lock symbol.

<eBike Lock> is not an anti-theft system, but an addition to a mechanical lock. <eBike Lock> does not activate any mechanical locking mechanism, but only disables assistance from the drive unit. As long as the smartphone is connected via Bluetooth® or the display is inserted in the mount, the drive unit remains unlocked.

If temporary or permanent access to the eBike is granted to third parties, share one of the previously defined digital keys (display/smartphone). In this way, <eBike Lock> remains active. If the eBike is to be serviced, disable <eBike Lock> in the eBike Flow app under <Settings>.

If the eBike is to be sold, remove the eBike from the user account in the **eBike Flow** app under **<Settings>**.
When the eBike is switched off, the drive unit emits a locking signal (**one** acoustic signal) to indicate that pedal assistance is disabled.
When the eBike is switched on, the drive unit emits two unlocking signals (**two** acoustic signals) to indicate that pedal assistance is enabled again.
The locking signal helps to identify whether **<eBike Lock>** is active. By default, the acoustic confirmation signal is enabled, but it can be disabled in the **eBike Flow** app under **<Lock sound>**, by selecting the eBike lock symbol.

If <eBike Lock> can no longer be configured or deactivated, contact an authorised service centre.

Replacement of eBike Components and eBike Lock

Smartphone replacement

1. Install the **eBike Flow** app on the new smartphone.
2. Log in using the same user account used to activate **<eBike Lock>**.
3. In the **eBike Flow** app, **<eBike Lock>** appears as configured.

Further instructions are available in the eBike Flow app or in the Bosch eBike Help Center on the website:
www.bosch-ebike.com/help-center

Battery Lock

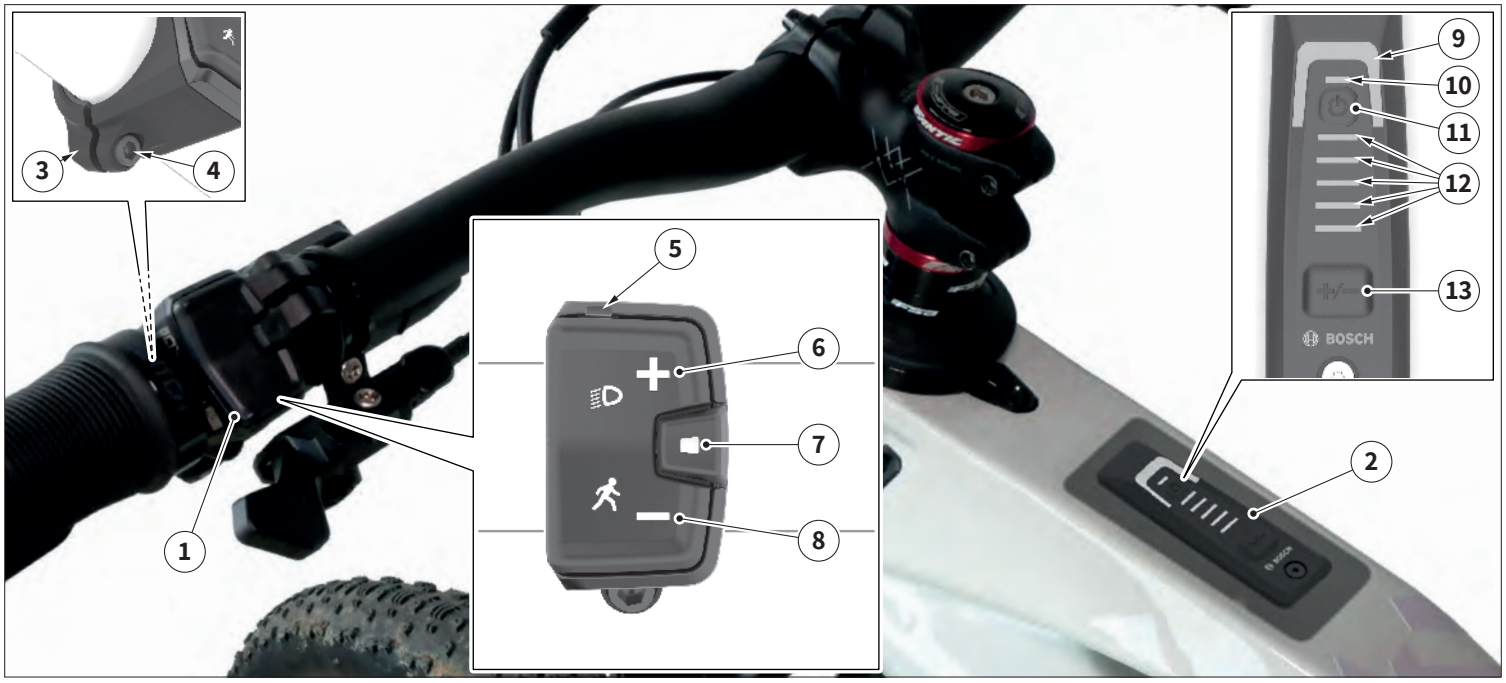
The **<Battery Lock>** can be configured for each eBike via the **eBike Flow** app under **<Settings>** » **<My eBike>** » **<Lock & Alarm>**.
In addition to the drive unit, **<Battery Lock>** allows the eBike battery to be locked when the eBike is switched off.
The eBike battery is unlocked as soon as the previously defined key (e.g. smartphone) is available when the eBike is switched on.
Activation of **<Battery Lock>** requires a **Flow+** subscription. Additional costs may therefore apply.
Further information on the **Flow+** subscription and details on individual services are available in the eBike Flow app or in the Bosch eBike Help Center on the website.
www.bosch-ebike.com/help-center

Software updates

Software updates must be started manually in the **eBike Flow** app.
Updates are transferred in the background from the app to the control unit as soon as it is connected. During the update process, follow the indications shown on the **Purion 200** control unit. The eBike is then restarted.
Software updates are managed via the **eBike Flow** app.

CONTROL SYSTEM (SIERRA SPORT VERSIONS)

All SIERRA Sport versions are equipped as standard with the **Bosch® System Controller** and the **Bosch® Remote Mini** wireless control unit.



1. **Bosch® Remote Mini** control unit
2. **Bosch® System Controller** control unit
3. Support
4. Mount fixing screw
5. LED indicator
6. (+) button – Increase assistance level / bicycle lights
7. Selection button
8. (–) button – Decrease assistance level / walk assist / hill start assist
9. Riding mode LED
10. ABS LED (optional) / ambient light sensor
11. On/Off button
12. eBike battery charge level indicator
13. Mode button

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Requirements

The eBike can be switched on only if the following conditions are met:

- The battery is sufficiently charged (see section page 20);
- The speed sensor is correctly connected.

Software updates continuously introduce improvements and new features. Therefore, the illustrations and functions shown here may differ from the actual display.

Control unit power supply

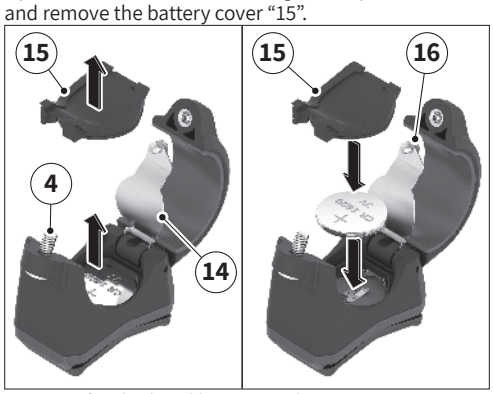
If a sufficiently charged eBike battery is inserted into the eBike and the system is switched on, the internal battery of the control unit is powered and recharged.
If the internal battery of the control unit is defective, contact a specialised workshop.

Remote Mini power supply

The **Remote Mini** wireless control unit is powered by a **CR1620** coin cell battery.

Coin Cell Replacement (Remote Mini)

When the coin cell battery of the **Remote Mini** control unit "1" is nearly depleted, the LED indicator "5" flashes orange.
To replace the coin cell battery open the mount fixing screw "4" using a 3 mm hex key and remove the **Remote Mini** from the handlebar.
Open the metal cover "14" using a Phillips screwdriver and remove the battery cover "15".



Remove the depleted battery and insert a new **CR1620** battery, ensuring that the marking faces upwards. If the battery is inserted correctly, the LED indicator "5" flashes green.
Close the battery compartment with the battery cover "15". Ensure that the battery cover "15" is correctly seated to guarantee proper sealing of the battery compartment.
Close the metal cover "14" and tighten the fixing screw "16" (0.15 Nm) carefully. Finally, refit the **Remote Mini** control unit on the handlebar.

Tighten the fastening screw for the support "4" carefully (0.6 Nm).

The connection to the System Controller is not interrupted when replacing the coin cell battery.

Switching the eBike On/Off

To **switch on** the eBike, briefly press the On/Off button "11" on the **System Control unit**. After the start-up animation, the eBike battery charge level is displayed in colour via the charge level indicator "12", and the selected assistance level via indicator "9". The eBike is ready to ride.
The display brightness is adjusted by the ambient light sensor "10". Do not cover the ambient light sensor "10".
The drive unit activates as soon as you start pedalling (except in **OFF** mode). The motor output depends on the selected riding mode.
During normal operation, assistance is automatically cut off when you stop pedalling or when a speed of **25 km/h** is reached (or the maximum speed permitted by local regulations; see section page 3). The drive unit automatically reactivates as soon as you resume pedalling and the speed falls below **25 km/h**.
To **switch off** the eBike, briefly press (< 3 s) the On/Off button "11". The battery charge level indicator "12" and the assistance level LED "9" switch off.
If no power is requested from the drive unit for approximately **10 minutes** (e.g. when the eBike is stationary) and no button is pressed, the eBike switches off automatically.

eBike battery charge level indicator

On the battery charge level indicator "12", each blue bar corresponds to 20% capacity, and each white bar corresponds to 10% capacity. The top bar indicates maximum capacity.

Example: if there are 4 blue bars and one white bar, the charge level is between 81% and 90%.

When the battery charge level is low, the two lower indicators change colour:

Bars	Charge level
2 × orange	30% ... 21%
1 × orange	20% ... 11%
1 × red	10% ... reserve
1 x flashing red	Reserve ... empty

If the eBike battery is being charged, the top bar of the eBike charge level indicator "12" flashes.
Outside the eBike, the battery charge level is indicated by the LEDs on the eBike battery.

Selecting the riding mode

Using the control units, the level of assistance provided by the drive unit during pedalling can be set.

- **Remote Mini** : Briefly press (< 1 s) the (+) button "6" to increase the assistance level or the (–) button "8" to decrease the assistance level.
- **System Controller** : Press the mode button "13" briefly (< 1 s) to increase the level of pedal assist.

Press the mode button "13" for more than 1 s to decrease the level of pedal assist.
The pedal assist level can be changed at any time, including while riding, and is displayed in colour.
Additional riding modes can be activated via the **eBike Flow** app or by an authorised dealer, provided they are supported by the bicycle manufacturer.

The available riding modes depend on the drive unit installed.

Riding mode	Warnings:
OFF	Motor assistance is deactivated. The eBike can be ridden like a conventional bicycle.
ECO	Provides assistance at maximum efficiency for maximum range.
ECO+	Range-optimised riding mode that activates motor assistance only above a certain riding input, for a natural riding feel and maximum range.
TOUR	Provides consistent assistance for long-distance rides.
TOUR+	Dynamic assistance for a natural and sporty riding experience.
eMTB	Optimised assistance for all terrains, with sporty start-up, improved dynamics and maximum performance.
eMTB+	Maximum dynamic assistance, perfectly balanced, with up to 100% more "Extended Boost" for an even more enjoyable ride.
SPORT	High-level assistance for sporty riding on hilly terrain and in urban traffic.
TURBO	Maximum assistance, even at high pedalling cadences, for sporty riding.
AUTO	Assistance automatically adapts to the riding conditions.
RACE	Maximum assistance for eMTB riding, with very direct response and maximum "Extended Boost" for the best performance in racing conditions.
CARGO	Powerful and consistent assistance for safely transporting heavy loads.
SPRINT	Dynamic assistance based on pedalling cadence, for sporty riding on eGravel and eRoad, with rapid acceleration and frequent climbs.

Riding mode adjustment

Allows limited adjustment of riding modes via the **eBike Flow** app. Enables adaptation of the eBike to individual needs.
Custom riding modes cannot be created. Only riding modes enabled by the bicycle manufacturer can be adjusted.
Depending on local regulations, adjustment of riding modes may not be permitted.
The following parameters can be adjusted:

- Pedal assistance level relative to the base value of the riding mode (within legal limits)
- Drive unit response
- Adjustment speed (within legal limits)
- Maximum torque (within the limits of the drive unit)

Note: the modified riding mode retains the same position, name and colour on all displays and control units.

Interaction between drive unit and drivetrain

Use the gears on the eBike in the same way as on a conventional bicycle. Regardless of the type of drivetrain, it is recommended to briefly reduce pressure on the pedals during gear shifting. This makes gear shifting easier and reduces drivetrain wear.
Selecting the correct gear allows higher speed and increased range with the same level of effort.
Follow the gear shift recommendations displayed on the screen.

Switching the bicycle lights On/Off

Before riding, always check that the bicycle lights are functioning correctly.
To switch the bicycle lights on or off, press the bicycle lights button "6" for more than 1 s.

Activating/deactivating walk assist

The walk assist function can help when pushing the eBike. The walk assist speed is limited to a maximum of **4 km/h**. The value set by the bicycle manufacturer may be lower and, if necessary, can be adjusted by a specialised workshop.

- The walk assist function must be used only when pushing the eBike. Using walk assist when the wheels are not in contact with the ground may result in injury.
- If the selected gear is too high, the drive unit may not be able to move the eBike or activate the rollback protection system.

To **activate** walk assist, press and hold the walk assist button "8" for more than 1 s. The eBike battery charge level indicator "12" switches off, and a white forward light indicates availability.
To **activate** walk assist, perform one of the following actions within 10 seconds:

- Push the eBike forward.
- Push the eBike backward.
- Move the eBike sideways in a rocking motion.

After activation, the drive unit starts to provide assistance and the white bars turn blue.
When the walk assist button "8" is released, the function is paused. Walk assist can be reactivated within 10 seconds by pressing the walk assist button "8" again.
If not reactivated within 10 seconds, it switches off automatically.
Walk assist is always interrupted when:

- The rear wheel locks;

– Threshold limits cannot be exceeded;
– The crankset is blocked;
– An obstacle causes the crankset to rotate;
– Pedalling starts;
– the assist increase + / bicycle lights button “6” is pressed, or the On/Off button “11” is pressed.

The walk assist function includes a rollback protection system: even after use, the drive unit actively prevents backward movement of the eBike for a few seconds. As a result, the eBike cannot be pushed backwards without significant effort.
The rollback protection system is immediately deactivated by pressing the + button / lights button “6”.
The operation of the walk assist function is subject to country-specific regulations and may therefore differ from the description above or be disabled entirely.

Hill start assist activation/deactivation

The hill start assist function facilitates starting on inclines.
To **activate** hill start assist, place one foot on the pedal so that the eBike detects the intention to start. Then press and hold the hill start assist button “8” for more than 1 second.

⚠ **Follow the correct sequence when activating hill start assist. If the hill start assist button “8” is pressed before placing a foot on the pedal, the walk assist function is activated instead.**

Once hill start assist has been successfully activated, release the hill start assist button “8”. After a safe start, hill start assist deactivates automatically and riding continues in the selected riding mode. Hill start assist can be terminated at any time by removing the foot from the pedal.
It can then be reactivated within 10 seconds by placing the foot back on the pedal. Reactivation is indicated on the display. It is not necessary to press the hill start assist button “8” again. If the hill start assist button “8” is pressed within 10 seconds, the countdown is reset, providing a new 10-second hill start assist activation window.
Hill start assist includes a rollback protection system: even after use, the drive unit actively prevents backward movement of the eBike for a few seconds, avoiding unintended rollback.
The operation of hill start assist is subject to country-specific regulations and may therefore differ from the description above or be disabled.

ABS – Anti-lock braking system (optional)

If the eBike is equipped with a Bosch eBike ABS **the smart system**, the ABS LED “10” lights up when the eBike is switched on.
After start-up, the ABS performs an internal function check and the ABS LED “10” switches off.
In the event of a fault, the ABS LED “10” lights up together with the pedal assist level LED “9”, which flashes orange. The error can be cleared by pressing the selection button “7” on the **Remote Mini** control unit “1” or the mode button “13” on the **System Controller** “2”. The flashing pedal assist level LED “9” then switches off. As long as the ABS LED “10” remains lit, the ABS is not active.

ⓘ **For further details on ABS and its operation, refer to the ABS user manual supplied with the bicycle.**

Connecting a smartphone

To use the following eBike functions, a smartphone with the **eBike Flow** app is required.
The connection to the app is established via Bluetooth®.

⚠ **Switch on the eBike and wait for the start-up animation. Do not start riding.**

Start Bluetooth® pairing by pressing and holding the On/Off button “11” (> 3 s). Release the On/Off button “11” as soon as the upper bar of the eBike battery charge level indicator “12” flashes blue, indicating that pairing is in progress.
Confirm the connection request in the app.

Activity tracking

To record activities, registration or login to the **eBike Flow** app is required.
To enable activity tracking, consent to the storage of location data in the app is required. Only then can activities be recorded in the app. Recording location data requires login with a user account.

eBike Lock

<eBike Lock> can be configured for each eBike via the **eBike Flow** app under **<Settings>** » **<My eBike>** » **<Lock & Alarm>**. A key is stored to unlock the eBike via the smartphone.
<eBike Lock> is activated automatically in the following cases:

– When the eBike is switched off via the control unit
– In case of automatic shutdown of the eBike

If the eBike is switched on and the smartphone is connected via Bluetooth®, or if the previously defined display is inserted into the mount, the eBike is unlocked.
<eBike Lock> is linked to the user account.
If the smartphone is lost, access can be restored by logging in via another smartphone using the **eBike Flow** app and the user account, and the eBike can be unlocked.
If the display is lost, all digital keys can be reset via the **<Lock & Alarm>** menu in the **eBike Flow** app.

⚠ **If a setting is selected in the app that may affect <eBike Lock> (e.g. deleting the eBike or the user account), warning messages will be displayed first. Read the warnings carefully and follow the instructions provided (e.g. before deleting the eBike or the user account).**

Configuring <eBike Lock>

The following conditions must be met to configure **<eBike Lock>**:

– The **eBike Flow** app must be installed.
– A user account has been created.
– No update is in progress on the eBike.
– The eBike is connected to the smartphone via Bluetooth®.
– The eBike is stationary
– The smartphone is connected to the internet.
– The eBike battery is sufficiently charged and the charging cable is not connected

<eBike Lock> can be configured in the **eBike Flow** app under the menu item **<Lock & Alarm>**.
The eBike drive unit provides assistance only if, when the eBike is switched on, the smartphone is connected via Bluetooth® or the display is inserted into the mount. If the smartphone is used as a key, Bluetooth® must be enabled on the smartphone and the **eBike Flow** app must be running in the background. If **<eBike Lock>** is activated, the eBike can still be used without pedal assistance via the drive unit.

Compatibility

<eBike Lock> is compatible with all Bosch drive units of the smart system generation.

Operation

In combination with **<eBike Lock>**, the smartphone and display function as a key for the drive unit. **<eBike Lock>** is activated when the eBike is switched off. When the eBike is switched on, it checks for the availability of a previously defined key. This is indicated on the **System Controller** control unit by a white flashing signal and on the display by a padlock symbol.

⚠ **<eBike Lock> is not an anti-theft system, but an addition to a mechanical lock. <eBike Lock> does not activate any mechanical locking mechanism, but only disables assistance from the drive unit. As long as the smartphone is connected via Bluetooth® or the display is inserted in the mount, the drive unit remains unlocked.**

If temporary or permanent access to the eBike is granted to third parties, share one of the previously defined digital keys (display/smartphone). In this way, <eBike Lock> remains active. If the eBike is to be serviced, disable <eBike Lock> in the eBike Flow app under <Settings>.

If the eBike is to be sold, remove the eBike from the user account in the **eBike Flow** app under **<Settings>**.
When the eBike is switched off, the drive unit emits a locking signal (one acoustic signal) to indicate that pedal assistance is disabled.
When the eBike is switched on, the drive unit emits two unlocking signals (two acoustic signals) to indicate that pedal assistance is enabled again.
The locking signal helps to identify whether **<eBike Lock>** is active. By default, the acoustic confirmation signal is enabled, but it can be disabled in the **eBike Flow** app under **<Lock sound>**, by selecting the eBike lock symbol.

⚠ **If <eBike Lock> can no longer be configured or deactivated, contact an authorised service centre.**

Replacement of eBike components and <eBike Lock>

Smartphone replacement

1. Install the **eBike Flow** app on the new smartphone.
2. Log in using the same user account used to activate **<eBike Lock>**.
3. In the **eBike Flow** app, **<eBike Lock>** appears as configured.

Further instructions are available in the **eBike Flow** app or in the Bosch eBike Help Center on the website: www.bosch-ebike.com/help-center

Battery Lock

The **<Battery Lock>** can be configured for each eBike via the **eBike Flow** app under **<Settings>** » **<My eBike>** » **<Lock & Alarm>**.

In addition to the drive unit, **<Battery Lock>** also allows the eBike battery to be locked when the eBike is switched off.

The eBike battery is unlocked as soon as the previously defined key (e.g. smartphone) is available when the eBike is switched on.

Activation of **<Battery Lock>** requires a **Flow+** subscription. Additional costs may therefore apply.

Further information on the **Flow+** subscription and details on individual services are available in the **eBike Flow** app or in the Bosch eBike Help Center on the website.

www.bosch-ebike.com/help-center

Software updates

Software updates must be started manually in the **eBike Flow** app.

Updates are transferred in the background from the app to the control unit as soon as it is connected. The software update process is indicated by the green flashing of the eBike battery charge level indicator “12”. The eBike is then restarted.

Software updates are managed via the **eBike Flow** app.

Pairing the System Controller with the Remote Mini

The connection between the **System Controller** and the **Remote Mini** control unit is established via a Bluetooth® connection.

Switch on the eBike without starting to ride.

If the **Remote Mini** control unit has not yet been connected to the **System Controller** by the dealer, proceed as follows:

1. First connect the smartphone to the System Controller via the eBike Flow app.
2. In the **eBike Flow app, select: <Settings>** » **<My eBike>** » **< Pass eBike >** » **<Components>** » **<Add new device>**. Then select **<Mini Remote / Mini Remote Dropbar>**.
3. **Remote Mini**: start the pairing process by pressing any button until pairing is indicated by a blue flashing LED “5”.
4. Follow the instructions in the **eBike Flow** app.

Successful pairing is indicated within 30 seconds on the **Remote Mini** control unit by three green flashes of LED “5”.

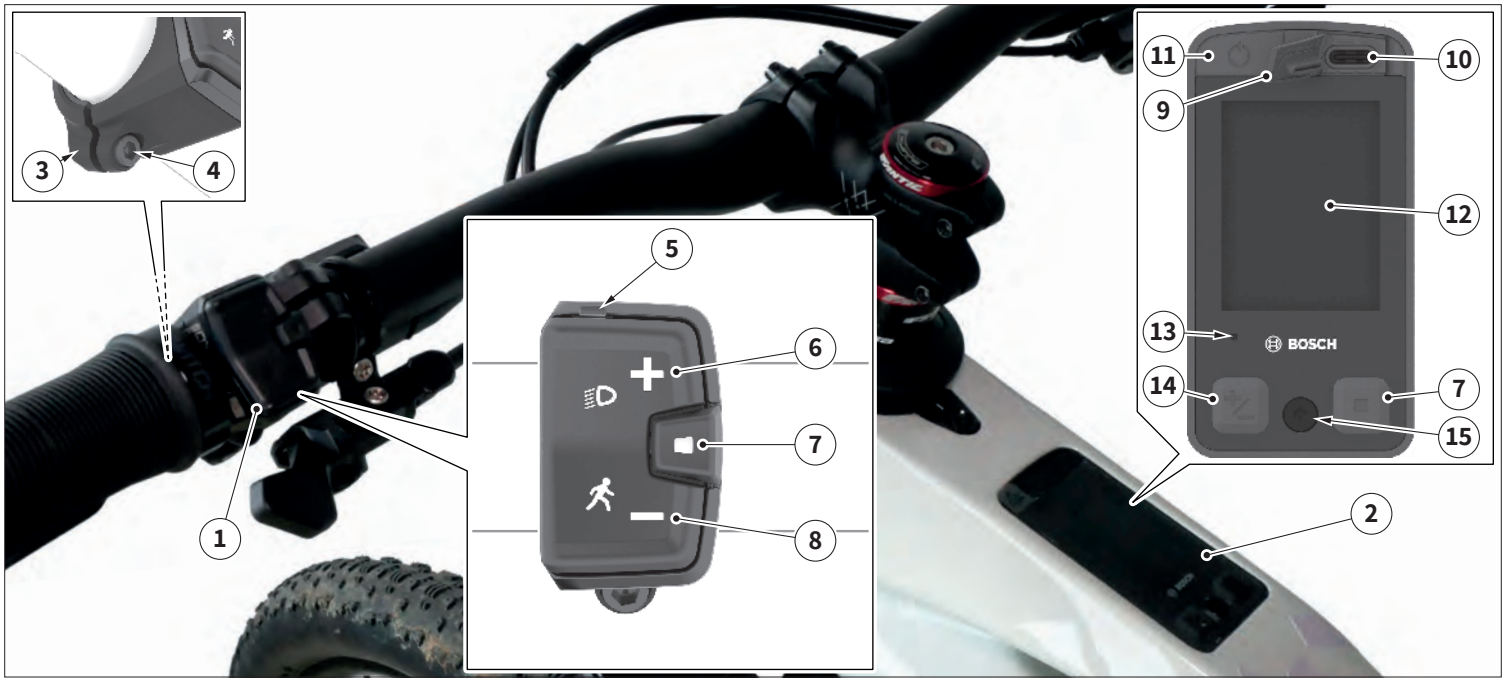
If the connection is not established, this is indicated by three red flashes of LED “5”. Repeat the process.

To connect the **Remote Mini** control unit to a **System Controller** of another eBike, proceed as follows:

1. First connect the smartphone to the System Controller via the eBike Flow app.
2. In the **eBike Flow app, select: <Settings>** » **<My eBike>** » **< Pass eBike >** » **<Components>** » **<Add new device>**. Then select **<Mini Remote / Mini Remote Dropbar>**.
3. **Remote Mini**: Remove the coin cell battery from the **Remote Mini** control unit and wait at least 30 seconds. Reinsert the battery and wait until LED “5” flashes green.
4. Within the next 10 seconds, press and hold the pedal-assist decrease – / walk assist button “8” for 5 seconds. The pairing process is indicated for 30 seconds by a blue flashing indicator light LED “5”.
5. Follow the instructions in the **eBike Flow** app. Successful pairing is indicated within 30 seconds on the **Remote Mini** control unit by three green flashes of LED “5”. If the connection is not established, this is indicated by three red flashes of LED “5”. Repeat the process.

CONTROL SYSTEM (SIERRA RACE AND SIERRA FACTORY VERSIONS)

All SIERRA Race and Factory versions are equipped as standard with the **Bosch® Kiox 400C** and the **Bosch® Remote Mini** wireless control unit.



1. **Bosch® Remote Mini** control unit
2. **Bosch® Kiox 400C** control unit
3. Support
4. Mount fixing screw
5. LED indicator
6. Assist level increase button + / bicycle lights
7. Selection button
8. Assist level decrease button – / walk assist / hill start assist
9. Charging port protective cover
10. Charging port
11. On/Off button
12. Display
13. Ambient light sensor
14. Mode button
15. **Bosch® Kiox 400C** fixing screw

Requirements

The eBike can be switched on only if the following conditions are met:

– The battery is sufficiently charged (see section page 20);
– The speed sensor is correctly connected.

Software updates continuously introduce improvements and new features. Therefore, the illustrations and functions shown here may differ from the actual display.

Before initial use

To ensure full functionality of the control unit, remove the protective film from the display before first use. Leaving the protective film on the display may result in reduced functionality and performance of the control unit.

Control unit power supply

If a sufficiently charged eBike battery is inserted into the eBike and the system is switched on, the internal battery of the control unit is powered and recharged.
If the internal battery of the control unit has a very low charge level, it can be recharged using a power bank or USB charger via the charging port “10” with a USB Type-C® cable.

Charging external devices

The charging port “10” is also intended for charging compatible external devices.

Depending on the configuration and components installed on the eBike, the ability to charge external devices via the charging port may be unavailable or limited.

Switch on the eBike, open the protective cover “9” of the charging port “10” and connect the device.

– The USB Type-C® cable may become entangled in the front wheel during riding. This may cause accidents with unpredictable consequences. Before riding, ensure that all cables are properly stowed.

During charging, observe the following instructions:

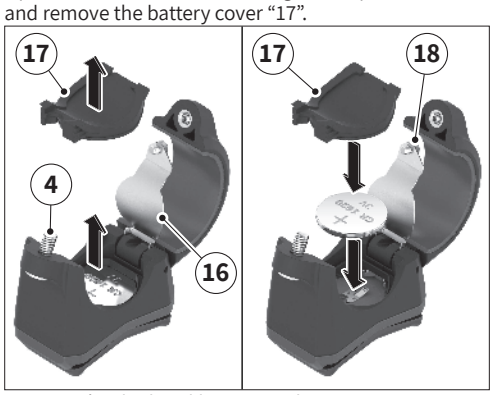
– Charge only in a dry environment.
– Charge only one device at a time.
– Before connecting, ensure that the charging port is clean.
– Ensure that the connected device is compatible with the specified voltage and current values.
– Connected devices may affect the eBike range, depending on their power consumption.
– Always close the charging port protective cover “9” of the charging port “10” when it is not in use, in order to prevent the ingress of dust and moisture.

Remote Mini power supply

The **Remote Mini** control unit is powered by a **CR1620** coin cell battery.

Coin Cell Replacement (Remote Mini)

When the coin cell battery of the **Remote Mini** control unit “1” is nearly depleted, the LED indicator “5” flashes orange.
To replace the coin cell battery open the mount fixing screw “4” using a 3 mm hex key and remove the **Remote Mini** from the handlebar.
Open the metal cover “16” using a Phillips screwdriver and remove the battery cover “17”.



Remove the depleted battery and insert a new **CR1620** battery, ensuring that the marking faces upwards.
If the battery is inserted correctly, the LED indicator “5” flashes green.
Close the battery compartment with the battery cover “17”. Ensure that the battery cover "17" is correctly seated to guarantee proper sealing of the battery compartment.
Close the metal cover “16” and tighten the fixing screw “18” (0.15 Nm) carefully. Finally, refit the **Remote Mini** control unit on the handlebar.

Tighten the fastening screw for the support “4” carefully (0.6 Nm).

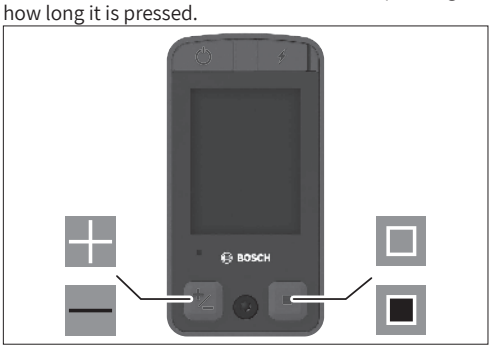
The connection to the Kiox 400C will not be interrupted when replacing the coin cell battery.

Switching the eBike On/Off

To switch on the eBike, briefly press the On/Off button “11” on the **system control unit**. After the start-up animation, the eBike is ready to ride.
The display brightness is adjusted automatically by the ambient light sensor “13”. Do not cover the ambient light sensor “13”.
The drive unit activates as soon as you start pedalling (except in **OFF** mode). The motor output depends on the selected riding mode.
During normal operation, assistance is automatically cut off when you stop pedalling or when a speed of **25 km/h** is reached. The drive unit automatically reactivates as soon as you resume pedalling and the speed falls below **25 km/h**.
To switch off the eBike, briefly press (< 3 s) the On/Off button “11”.
If no power is requested from the drive unit for approximately **10 minutes** (e.g. when the eBike is stationary) and no button is pressed, the eBike switches off automatically.

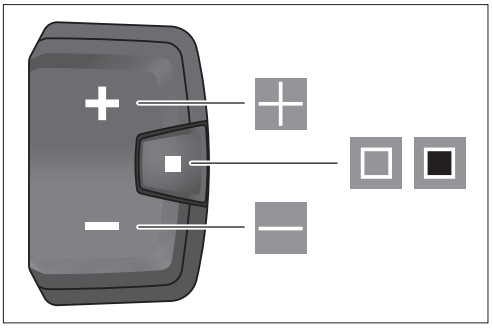
Operation

The following overview shows the functions of the buttons on the **Kiox 400C** control unit and the **Remote Mini** control unit:
The selection button has two functions depending on how long it is pressed.



> ⊞ Increase pedal-assist level (short press < 1 s)
> ⊟ Decrease pedal-assist level (long press > 1 s)
> ▣ Confirm selection / scroll right (short press < 1 s)
> ■ Open quick menu (long press > 1 s)

3-button control unit



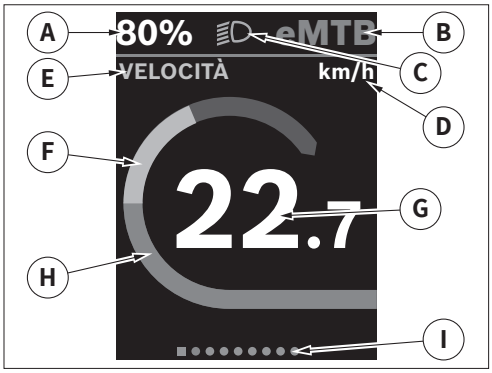
> ⊞ Increase pedal assistance level / scroll up
> ⊟ Decrease pedal assistance level / scroll down
> ▣ Selection button / screen navigation (short press)
> ■ Selection button / open menu (long press > 1 s)

The button ▣ can also be used to confirm error codes.

Software updates continuously introduce improvements and new features. Therefore, the illustrations and functions shown here may differ from the actual display.

Home screen

If no other screen was selected before the last shutdown, this screen will be displayed when the eBike is switched on.



A. eBike battery charge level (configurable)
B. Riding mode
C. Bicycle lights
D. Speed unit indicator
E. Display header
F. Rider power
G. Speed
H. Drive unit power
I. Orientation bar

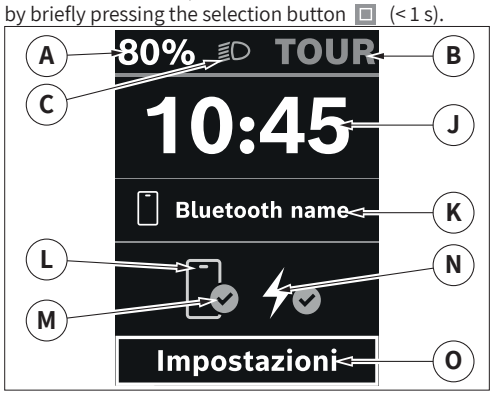
The indicators **A ... C** form the status bar and are displayed on every screen.
The orientation bar briefly indicates the current screen.
If a screen other than the start screen was active when the eBike was switched off, the same screen will be displayed again when the eBike is switched on.
From the start screen, additional screens can be accessed. These screens display statistical data, eBike range, and average values.
Press the selection button ▣ briefly to scroll through the
screens.

Quick menu

The quick menu allows you to view selected settings, which can also be modified while riding.
The quick menu can be accessed by pressing and holding (> 1 s) the selection button ■ .
Access from the status screen is not possible.
The following settings can be configured in the quick menu:

> **Trip**
  › All data relating to the current trip is reset.
> **eShift**
  › The settings depend on the specific drivetrain installed. Here you can, for example, set your preferred cadence, provided the drivetrain supports this function.
> **Navigation** (optional)
  › Here you can select recent destinations as a new destination and/or end the current navigation session.

Status screen
From the start screen, the status screen can be accessed by briefly pressing the selection button ▣ (< 1 s).



A. eBike battery charge level (configurable)
B. Riding mode
C. Bicycle lights
J. Time
K. Smartphone connection status
L. Smartphone connection
M. Connection status
N. Charging indication for external devices
O. Settings menu

Accessing the Settings Menu
The Settings menu can be accessed from the status screen.
Press and hold the selection button ▣ > 1 s) to display the **Settings** menu.

⚠ **The Settings menu cannot be accessed while riding.**

The **<Settings>** menu contains the following items:

> My eBike
  › The following menu items are available here:
  › **Reset**
    » Resets the range value.
  › **Auto trip reset**
    » Sets the time interval for automatically resetting the trip odometer.
  › **Wheel circumference**
    » Adjusts the rear wheel circumference or resets it to the default value.
  › **Service**
    » Displays the next service interval, if set by a specialised workshop.
  › **Components**
    » Displays the installed components and their version numbers.
> App connect
  › Displays the connection status to the eBike Flow app.
> My Kiok
  › The following menu items are available here:
  › **Status bar**
    » Selects one of the following displays: **<Battery>**, **<Time>**, **<Speed>** or **<eShift>** (optional).

⚠ **<eShift> is available only in combination with a compatible eShift system.**

  › **Tones**
    » Adjusts the acoustic signal volume **<High>**, **<Medium>**, **<Low>** or switches it **<Off>**.
  › **Shift recommendation**
    » Enables or disables the gear recommendation display.
  › **Trip summary**
    » Enables or disables the display of ride summary information when the eBike is switched off.
  › **Time**
    » Sets the time.
  › **Format**
    » Selects between 12-hour and 24-hour formats.
  › **Brightness**
    » Adjusts the display brightness.
  › **Language**
    » Selects the preferred language: German, English, French, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Norwegian, Polish, Czech.
  › **Units**
    » Selects between metric and imperial measurement systems.
  › **Reset settings**
    » Resets all system settings to their default values.
> Information
  › Displays the following menu items:
  › **Contacts**
    » Displays contact information for Bosch eBike Systems.
  › **Certificates**
    » Provides access to certificates and e-labels.

Exiting the Settings Menu
Press the selection button ▣ briefly to save the settings and exit the Settings menu.
Press and hold the selection button ▣ (> 1 s) to exit the Settings menu without saving the settings.

Display configuration
<Display configuration> is available in the **eBike Flow** app under <Settings> » **<My eBike>**. The eBike must be switched on and the smartphone must be connected.
Through **<Display configuration>**, it is possible to customise the display content:

– Change the order of the screens
– Add new screens
– Modify or delete existing screens
– Add new screens after an update

Further information on **<Display configuration>** is available in the **eBike Flow** app.

Selecting the riding mode
Using the control units, the level of assistance provided by the drive unit during pedalling can be set.
Remote Mini: Briefly press (< 1 s) the **+** button “6” to increase the pedal-assist level or the **–** button “8” to decrease the pedal-assist level.
Kiox 400C: Press the mode button “14” briefly (< 1 s) to increase the pedal-assist level.
Press the mode button “14” for more than 1 s to decrease the level of pedal assist.
The pedal assist level can be changed at any time, including while riding, and is displayed in colour.
Additional riding modes can be activated via the **eBike Flow** app or by an authorised dealer, provided they are supported by the bicycle manufacturer.

ⓘ **The available riding modes depend on the drive unit installed.**

Riding mode	Warnings:
OFF	Motor assistance is deactivated. The eBike can be ridden like a conventional bicycle.
ECO	Provides assistance at maximum efficiency for maximum range.
ECO+	Range-optimised riding mode that activates motor assistance only above a certain riding input, for a natural riding feel and maximum range.
TOUR	Provides consistent assistance for long-distance rides.
TOUR+	Dynamic assistance for a natural and sporty riding experience.
eMTB	Optimised assistance for all terrains, with sporty start-up, improved dynamics and maximum performance.
eMTB+	Maximum dynamic assistance, perfectly balanced, with up to 100% more “Extended Boost” for an even more enjoyable ride.
SPORT	High-level assistance for sporty riding on hilly terrain and in urban traffic.
TURBO	Maximum assistance, even at high pedalling cadences, for sporty riding.
AUTO	Assistance automatically adapts to the riding conditions.
RACE	Maximum assistance for eMTB riding, with very direct response and maximum “Extended Boost” for the best performance in racing conditions.
CARGO	Powerful and consistent assistance for safely transporting heavy loads.
SPRINT	Dynamic assistance based on pedalling cadence, for sporty riding on eGravel and eRoad, with rapid acceleration and frequent climbs.

Riding mode adjustment
Allows limited adjustment of riding modes via the **eBike Flow** app. Enables adaptation of the eBike to individual needs.
Custom riding modes cannot be created. Only riding modes enabled by the bicycle manufacturer can be adjusted.
Depending on local regulations, adjustment of riding modes may not be permitted.
The following parameters can be adjusted:

– Pedal assistance level relative to the base value of the riding mode (within legal limits)
– Drive unit response
– Adjustment speed (within legal limits)
– Maximum torque (within the limits of the drive unit)

⚠ **Note: the modified riding mode retains the same position, name and colour on all displays and control units.**

Interaction between drive unit and drivetrain
Also with the eBike, use the gear system as on a conventional bicycle (refer to the eBike user manual for further details).
Regardless of the type of drivetrain, it is recommended to briefly reduce pressure on the pedals during gear shifting. This makes gear shifting easier and reduces drivetrain wear.
Selecting the correct gear allows higher speed and increased range with the same level of effort.
Follow the gear shift recommendations displayed on the screen.

Switching the bicycle lights On/Off
Before riding, always check that the bicycle lights are functioning correctly.
To switch the bicycle **lights on or off**, press the bicycle lights button “6” for more than 1 s.

Activating/deactivating walk assist
The walk assist function can help when pushing the eBike. The walk assist speed is limited to a maximum of **4 km/h**. The value set by the bicycle manufacturer may be lower and, if necessary, can be adjusted by a specialised workshop.

– **The walk assist function must be used only when pushing the eBike.** Using walk assist when the wheels are not in contact with the ground may result in injury.
– **If the selected gear is too high, the drive unit may not be able to move the eBike or activate the rollback protection system.**

To **start** walk assist, press and hold the walk assist button “8” for more than 1 second, keep it pressed and follow the instructions displayed on the screen.
To activate walk assist, perform one of the following actions within 10 seconds:

– Push the eBike forward.
– Push the eBike backward.
– Move the eBike sideways in a rocking motion.

After activation, the drive unit starts providing assistance and the display indication changes.
When the walk assist button “8” is released, the function is paused. Walk assist can be reactivated within 10 seconds by pressing the walk assist button “8” again.
If not reactivated within 10 seconds, it switches off automatically.
Walk assist is always interrupted when:

– The rear wheel locks;
– Threshold limits cannot be exceeded;
– The crankset is blocked;
– An obstacle causes the crankset to rotate;
– Pedalling starts;
– press the assist increase **+** / bicycle lights button “6”, or press the On/Off button “11”.

The walk assist function includes a rollback protection system: even after use, the drive unit actively prevents backward movement of the eBike for a few seconds. As a result, the eBike cannot be pushed backwards without significant effort.
The rollback protection system is immediately deactivated by pressing the **+** button / lights button “6”.
The operation of the walk assist function is subject to country-specific regulations and may therefore differ from the description above or be disabled entirely.

Hill start assist activation/deactivation

The hill start assist function facilitates starting on inclines.
To activate hill start assist, place one foot on the pedal so that the eBike detects the intention to start. Then press and hold the hill start assist button “8” for more than 1 second.

⚠ **Follow the correct sequence when activating hill start assist. If the hill start assist button “8” is pressed before placing a foot on the pedal, the walk assist function is activated instead.**

Once hill start assist has been successfully activated, release the hill start assist button “8”. After a safe start, hill start assist deactivates automatically and riding continues in the selected riding mode. Hill start assist can be terminated at any time by removing the foot from the pedal.
It can then be reactivated within 10 seconds by placing the foot back on the pedal. Reactivation is indicated on the display.
It is not necessary to press the hill start assist button “8” again. If the hill start assist button “8” is pressed within 10 seconds, the countdown is reset, providing a new 10-second hill start assist activation window.
Hill start assist includes a rollback protection system: even after use, the drive unit actively prevents backward movement of the eBike for a few seconds, avoiding unintended rollback.
The operation of hill start assist is subject to country-specific regulations and may therefore differ from the description above or be disabled.

ABS – Anti-lock braking system (optional)

If the eBike is equipped with a Bosch eBike ABS **the smart system**, the ABS symbol lights up when the eBike is switched on.
After start-up, the ABS performs an internal function check and the symbol switches off.
In the event of a fault, the ABS symbol lights up and a warning message is displayed on the control unit. This indicates that the ABS is not active. The error can be confirmed using the selection button “7”, and the warning message will be cleared. The ABS symbol remains visible in the status bar, providing additional information about the deactivation of the ABS.
For further details on ABS and its operation, refer to the ABS user manual.

Connecting a smartphone

To use the following eBike functions, a smartphone with the **eBike Flow** app is required.
The connection to the app is established via Bluetooth®.

⚠ **Switch on the eBike and wait for the start-up animation. Do not start riding.**

Start Bluetooth® pairing by pressing and holding the On/Off button “11” (> 3 s). Release the On/Off button “11” as soon as the pairing status is displayed.
Confirm the connection request in the app.

Pairing the Kiox 400C with the Remote Mini

The connection between the **Kiox 400C** control unit and the **Remote Mini** control unit is established via Bluetooth®.
Switch on the eBike without starting to ride.

If the **Remote Mini** control unit has not yet been connected to the **Kiox 400C** by a specialised dealer, proceed as follows:

1. First connect the smartphone to the **Kiox 400C** via the **eBike Flow** app.
2. In the **eBike Flow** app, select: **<Settings>** » **<My eBike>** » **<Pass eBike>** » **<Components>** » **<Add new device>**. Then select **<Mini Remote / Mini Remote Dropbar>**.
3. **Remote Mini**: start the pairing process by pressing any button until pairing is indicated by a blue flashing LED.
4. Follow the instructions in the **eBike Flow** app.

Successful pairing is indicated within 30 seconds on the **Remote Mini** control unit by three green flashes of the LED.
If the connection is not established, this is indicated by three red flashes of the LED. Repeat the process.
To connect the **Remote Mini** control unit to a **Kiox 400C** of another eBike, proceed as follows:

1. First connect the smartphone to the **Kiox 400C** via the **eBike Flow** app.
2. In the **eBike Flow app, select: <Settings>** » **<My eBike>** » **<Pass eBike>** » **<Components>** » **<Add new device>**. Then select **<Mini Remote / Mini Remote Dropbar>**.
3. **Remote Mini**: Remove the coin cell battery from the **Remote Mini** control unit and wait at least 30 seconds. Reinsert the battery and wait until the LED flashes green.
4. Within the next 10 seconds, press and hold the assist decrease button **–** “8” for 5 seconds. The pairing process is indicated for 30 seconds by a blue flashing LED.
5. Follow the instructions in the **eBike Flow** app.

Successful pairing is indicated within 30 seconds on the **Remote Mini** control unit by three green flashes of the LED. If the connection is not established, this is indicated by three red flashes of the LED. Repeat the procedure starting from step 2.

Activity tracking

To record activities, registration or login to the **eBike Flow** app is required.
To enable activity tracking, consent to the storage of location data in the app is required. Only then can activities be recorded in the app. Recording location data requires login with a user account.

eBike Lock

<eBike Lock> can be configured for each eBike via the **eBike Flow** app under <Settings> » <My eBike> » **<Lock & Alarm>**. A key is stored on the smartphone to unlock the eBike. **<eBike Lock>** is activated automatically in the following cases:

– When the eBike is switched off via the control unit
– In case of automatic shutdown of the eBike

If the eBike is switched on and the smartphone is connected via Bluetooth®, or if the previously defined display is inserted into the mount, the eBike is unlocked.
<eBike Lock> is linked to the user account.
If the smartphone is lost, access can be restored by logging in via another smartphone using the **eBike Flow** app and the user account, and the eBike can be unlocked.
If the display is lost, all digital keys can be reset via the **<Lock & Alarm>** menu in the **eBike Flow** app.

⚠ **If a setting is selected in the app that may affect <eBike Lock> (e.g. deleting the eBike or the user account), warning messages will be displayed first. Read the warnings carefully and follow the instructions provided (e.g. before deleting the eBike or the user account).**

Configuring <eBike Lock>

The following conditions must be met to configure <eBike Lock>:

– The **eBike Flow** app must be installed.
– A user account has been created.
– No update is in progress on the eBike.
– The eBike is connected to the smartphone via Bluetooth®.
– The eBike is stationary
– The smartphone is connected to the internet.
– The eBike battery is sufficiently charged and the charging cable is not connected

<eBike Lock> can be configured in the **eBike Flow** app under the menu item **<Lock & Alarm>**.
The eBike drive unit provides assistance only if, when the eBike is switched on, the smartphone is connected via Bluetooth® or the display is inserted into the mount. If the smartphone is used as a key, Bluetooth® must be enabled on the smartphone and the **eBike Flow** app must be running in the background. If **<eBike Lock>** is activated, the eBike can still be used without pedal assistance via the drive unit.

Compatibility

<eBike Lock> is compatible with all Bosch drive units of the **smart system** generation.

Operation

In combination with **<eBike Lock>**, the smartphone and display function as a key for the drive unit.
<eBike Lock> is activated when the eBike is switched off. When switched on, the eBike checks for the availability of a previously defined key. This is indicated on the **Kiox 400C** control unit by a lock symbol.

⚠ **<eBike Lock> is not an anti-theft system, but an addition to a mechanical lock. <eBike Lock> does not activate any mechanical locking mechanism, but only disables assistance from the drive unit. As long as the smartphone is connected via Bluetooth® or the display is inserted in the mount, the drive unit remains unlocked.**

If temporary or permanent access to the eBike is granted to third parties, share one of the previously defined digital keys (display/smartphone). In this way, <eBike Lock> remains active. If the eBike is to be serviced, disable <eBike Lock> in the eBike Flow app under <Settings>.

If the eBike is to be sold, remove the eBike from the user account in the **eBike Flow** app under **<Settings>**.
When the eBike is switched off, the drive unit emits a locking signal (**one** acoustic signal) to indicate that pedal assistance is disabled.
When the eBike is switched on, the drive unit emits two unlocking signals (**two** acoustic signals) to indicate that pedal assistance is enabled again.
The locking signal helps to identify whether **<eBike Lock>** is active. By default, the acoustic confirmation signal is enabled, but it can be disabled in the **eBike Flow** app under **<Lock sound>**, by selecting the eBike lock symbol.

⚠ **If <eBike Lock> can no longer be configured or deactivated, contact an authorised service centre.**

Replacement of eBike components and <eBike Lock>

Smartphone replacement

1. Install the **eBike Flow** app on the new smartphone.
2. Log in using the same user account used to activate **<eBike Lock>**.
3. In the **eBike Flow** app, **<eBike Lock>** appears as configured.

Further instructions are available in the eBike Flow app or in the Bosch eBike Help Center on the website:
www.bosch-ebike.com/help-center

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Battery Lock

The **<Battery Lock>** can be configured for each eBike via the **eBike Flow** app under <Settings> » <My eBike> » **<Lock & Alarm>**.

In addition to the drive unit, **<Battery Lock>** allows the eBike battery to be locked when the eBike is switched off.

The eBike battery is unlocked as soon as the previously defined key (e.g. smartphone) is available when the eBike is switched on.

Activation of **<Battery Lock>** requires a **Flow+** subscription. Additional costs may therefore apply.

Further information on the **Flow+** subscription and details on individual services are available in the **eBike Flow** app or in the Bosch eBike Help Center on the website.

www.bosch-ebike.com/help-center

Software updates

Software updates must be started manually in the **eBike Flow** app.

Updates are transferred in the background from the app to the control unit as soon as it is connected. During the update process, follow the indications shown on the **Kiox 400C** control unit. The eBike is then restarted.

Software updates are managed via the **eBike Flow** app.

USE OF THE RANGE EXTENDER

Bosch® PowerMore 250

Description

Bosch eBike batteries of **"the smart system"** generation are designed exclusively to supply power to the drive unit of the same system generation and must not be used for any other purpose.

Use

Only the cable supplied must be used to connect the Range Extender to the main eBike battery.

The PowerMore auxiliary battery can also be used as the sole battery on the eBike. It should be noted that, due to its reduced capacity, both the range and the drive unit performance will be reduced.

Storage

Whenever possible, store the auxiliary battery in a dry and well-ventilated location. Protect it from moisture and water. In adverse weather conditions, it is recommended to remove the auxiliary battery from the eBike and store it indoors until the next use.

Do not store the **PowerMore** auxiliary battery:

- in environments without a smoke detector
- near combustible or flammable materials
- near heat sources
- inside closed vehicles (especially in summer)
- exposed to direct sunlight

For optimal battery lifespan, store the auxiliary battery at room temperature. In general, avoid temperatures below **−10°C (14°F)** or above **+60°C (140°F)**. Ensure that the maximum storage temperature is not exceeded.

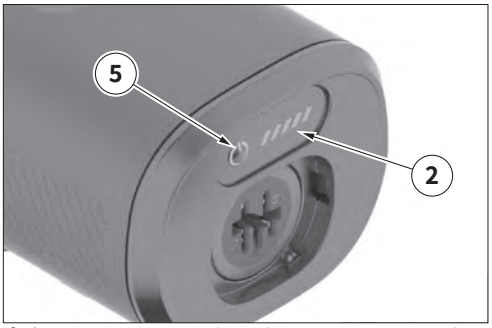
It is recommended not to leave the PowerMore auxiliary battery installed on the bicycle during extended periods of non-use.

Behaviour in case of faults

The PowerMore **auxiliary battery must not be opened under any circumstances.**

There is a risk that the auxiliary **PowerMore** battery may catch fire, even at a later time, especially if it continues to be used. In the event of a fault, request replacement from an authorised Bosch service centre with an original Bosch PowerMore auxiliary battery of the same type and belonging to the same integrated system generation.

Start and Stop



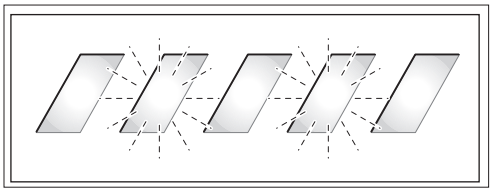
If the **PowerMore** auxiliary battery is connected to the eBike using the supplied cable, the eBike can be switched on or off using the **On/Off** button (5).

Do not use sharp or pointed objects to press the On/Off button (5).

To switch off the **PowerMore** auxiliary battery, press the **On/Off** button (5) again. This will also switch off the eBike.

If no assistance is requested from the drive unit for approximately 10 minutes (e.g. because the eBike is stationary) and no button on the display or control unit is pressed, the eBike switches off automatically.

The **PowerMore** auxiliary battery is equipped with a «**Battery Management System (BMS)**», which protects it against deep discharge, overcharging, overheating and short circuit. In case of danger, the auxiliary battery will automatically switch off as part of the BMS protection functions.



If a fault is detected in the **PowerMore** auxiliary battery, two LEDs of the charge level indicator (2) will flash. In this case, contact an authorised Fantic service centre.

Installation

Always switch off the eBike and the eBike battery before installing or removing the battery from its holder.

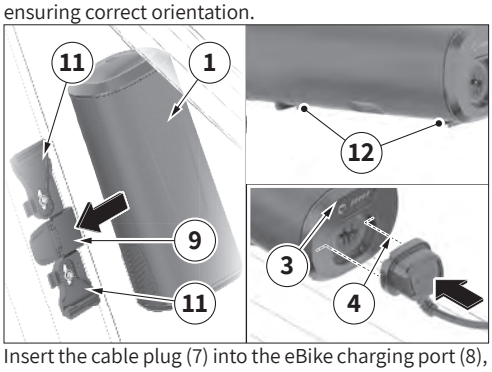
After installation, ensure that the battery is securely fixed in all directions.

Leave the PowerMore battery on the eBike only when the cable is connected.

Installation of the PowerMore battery with the connector facing upward is not permitted.

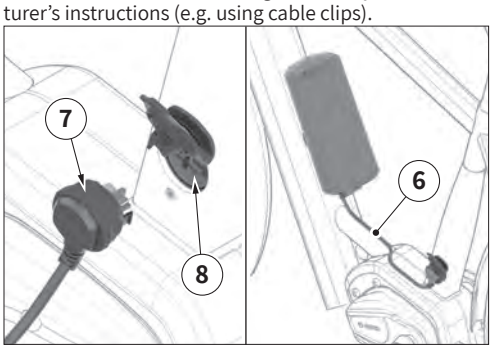
To install the battery (1), position it so that the mounting grooves (12) align with the guide rails (11). During this operation, ensure that the battery is correctly positioned and properly inserted into both guide rails. Slide the battery (1) into the holder (9) until it engages with an audible click.

Insert the cable plug (4) into the connection port (3), ensuring correct orientation.



Insert the cable plug (7) into the eBike charging port (8), ensuring correct orientation.

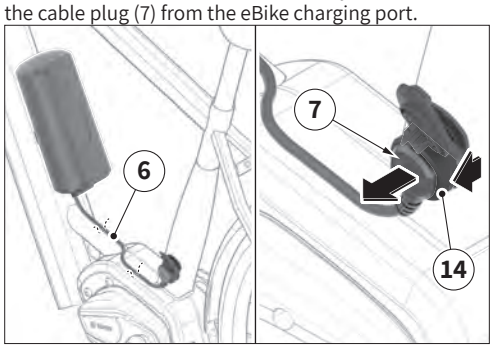
Secure the cable (6) according to the bicycle manufacturer's instructions (e.g. using cable clips).



During cable (6) routing, ensure that the cable (6) is positioned below the release button (10). This prevents the release button (10) from being pressed unintentionally, which could result in unintended release of the PowerMore battery.

Removal

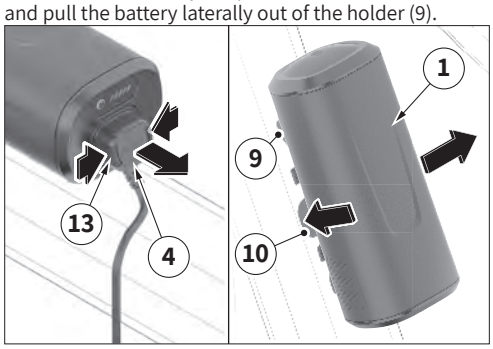
First, loosen the cable (6) by opening its fastening according to the bicycle manufacturer's instructions. Pull the release mechanism (14) towards you and remove the cable plug (7) from the eBike charging port.



Carefully close the eBike charging port cover to prevent the ingress of dirt or water.

Press the release buttons (13) and disconnect the cable plug (4) from the connection port.

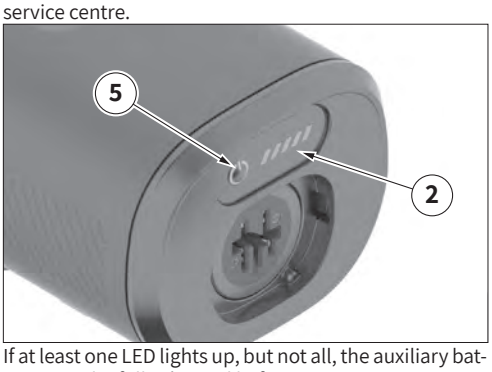
To remove the battery (1), press the release button (10) and pull the battery laterally out of the holder (9).



Charging

Check the eBike battery before first charging or before using it on the eBike.

To check this, press the **On**/**Off** button (5) to activate the **PowerMore** auxiliary battery. If no LEDs light up on the charge level indicator (2), the **PowerMore** battery may be damaged. In this case, contact an authorised Fantic service centre.



If at least one LED lights up, but not all, the auxiliary battery must be fully charged before use.

Do not charge or use a damaged auxiliary battery; contact an authorised Fantic service centre.

The PowerMore auxiliary battery may only be charged using an original Bosch charger compatible with "The smart system" of the same generation.

The PowerMore auxiliary battery is supplied partially charged.

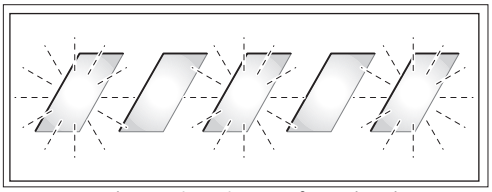
To ensure full performance of the **PowerMore** battery, fully charge it using the supplied charger before first use.

The **PowerMore** battery can be charged at any state of charge. Interrupting the charging process does not damage the battery.

The **PowerMore** battery is equipped with temperature monitoring, allowing charging only within the following ambient temperature range:

0°C (32°F) to 40°C (104°F)

If the battery is used outside this temperature range, three LEDs on the charge level indicator (2) will light up and flash.



Disconnect the auxiliary battery from the charger immediately. Once the correct temperature conditions have been restored, or once a suitable location has been found, reconnect the **PowerMore** battery to the charger and resume the charging process.

When the auxiliary battery and the eBike are in operation, the five LEDs of the charge level indicator (2) indicate the **PowerMore**auxiliary battery charge level.

Each LED corresponds to approximately 20% of total capacity. If all five LEDs are lit, the **PowerMore** battery is fully charged.

When the auxiliary battery is active, the charge level can also be checked via the display (if supported).

When the battery capacity drops below 10%, the last remaining LED starts flashing.

After charging, disconnect the **PowerMore** battery from the charger and unplug the cables from the mains.

SADDLE ADJUSTMENT

Seatpost adjustment

– Loosen the seatpost clamp using a 6 mm Allen key.
– Adjust the seat height by moving the seat post to the desired position.

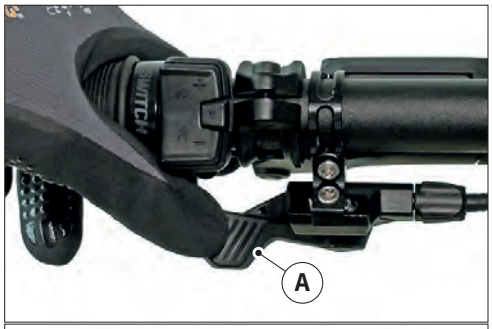
Do not raise the seatpost beyond the minimum insertion mark.

– Align the tip of the seat towards the front of the bicycle.

Tighten the seatpost clamp to the specified torque (see section page 42).

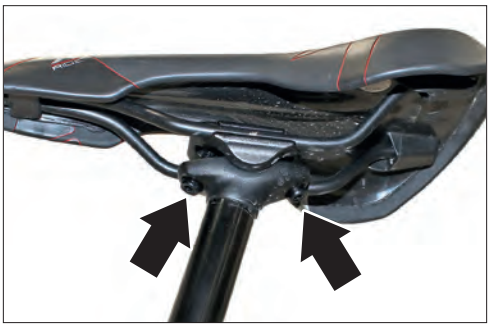
Height adjustment

– The saddle height can be adjusted while seated on the bicycle.
– To adjust the saddle height, press lever “A”, then push the saddle downward, or reduce pressure to allow it to rise.
– Once the desired height is reached, release lever “A”.



Saddle position and tilt adjustment

– Loosen the saddle clamp bolts using a 6 mm Allen key.
– Adjust the seat inclination as desired.

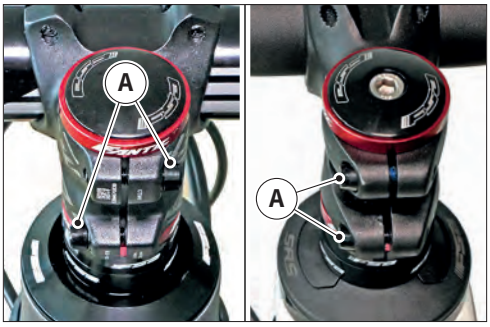


Tighten the bolts to the specified torque (see section page 42).

HANDLEBAR ADJUSTMENT

Also for reasons of space, the bicycle is shipped with the handlebar aligned to the frame.

– Use a 6mm Allen key and loosen the screws "A".



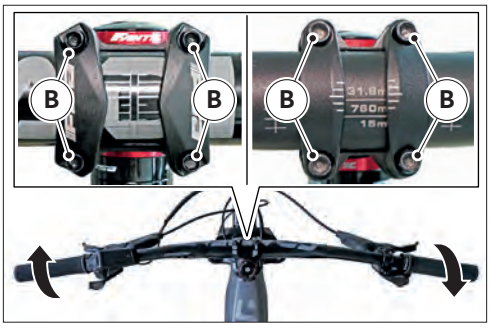
– Rotate the handlebar in a position perpendicular to the frame.

Tighten screws “A” to the specified torque (see section page 42).

Do not overtighten the bolts. Strictly follow the tightening instructions. Improper tightening may damage bicycle components, and such damage may not be visible, leading to hazardous riding conditions, accidents, personal injury or death.

To adjust the handlebar height:

– Loosen screws “B” using a 4 mm Allen key.
– Raise or lower the handlebar as desired.



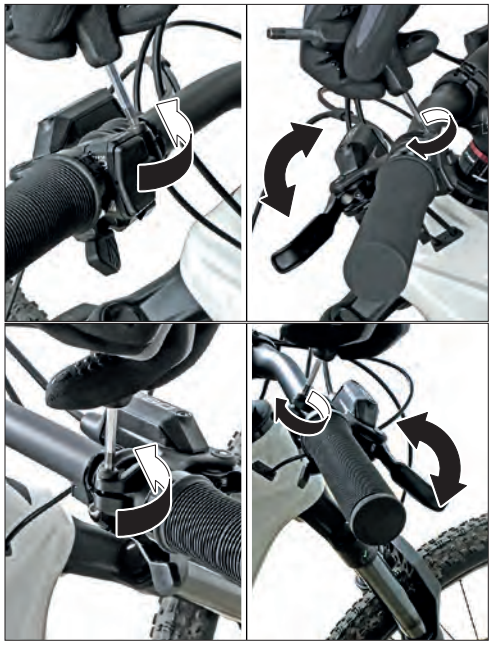
Tighten screws “B” to the specified torque (see section page 42).

BRAKE LEVER ADJUSTMENT

If you want to adjust the position of the brake levers:

The operations described apply to both brake levers.

– Loosen the brake lever clamp bolt using a 5 mm Allen key.
– Adjust the angle of the lever as desired.



Tighten the clamp screw to the specified torque (see section page 42).

SHIFTER ADJUSTMENT

Mechanical shifter controls

To adjust the position of the shifter:

– Loosen the brake lever clamp bolt using a 5 mm Allen key.
– Adjust the angle of the lever as desired.

Tighten the clamp screw to the specified torque (see section page 42).

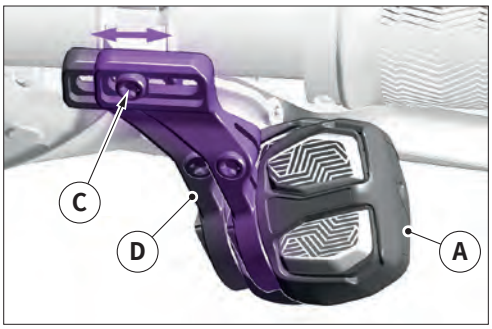
SRAM AXS Pod Controller

To adjust the position of the SRAM AXS Pod controller support bridge:

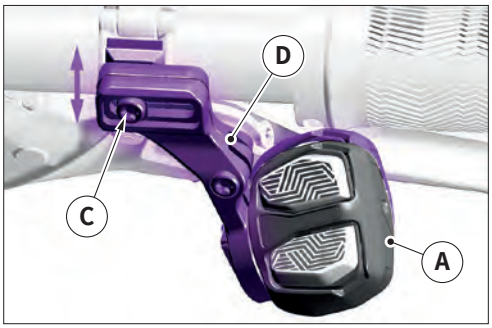
– Loosen screw “B” to rotate the Pod “A”.
– Rotate the Pod “A” as required.

– Loosen screw “C” to adjust the lateral position of the

support bridge “D”.



– Loosen screw “C” also to adjust the longitudinal position of the support bridge “D”.



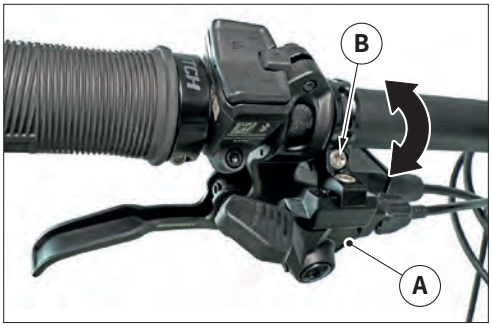
– Adjust the position of the bridge “D” as required.

Tighten screws “B” and “C” to the specified torque (see section page 42).

SADDLE HEIGHT ADJUSTMENT LEVER

To adjust the position of the saddle height adjustment lever “A”:

– Loosen the lever clamp screw “B”.
– Adjust the angle of the lever as desired.



Tighten the clamp screw to the specified torque (see section page 42).

FRONT FORK ADJUSTMENT

Front fork compression adjustment

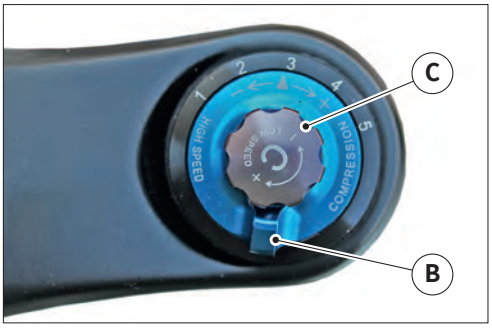
The illustrations shown are for reference only and may vary depending on the model.

To adjust the front fork compression according to the riding conditions and rider weight, operate the adjuster located on the right fork leg.

– To reduce the compression speed (stiffer fork), turn knob "A" clockwise (+).
– To increase the compression speed (softer fork), turn knob "A" counter-clockwise (-).

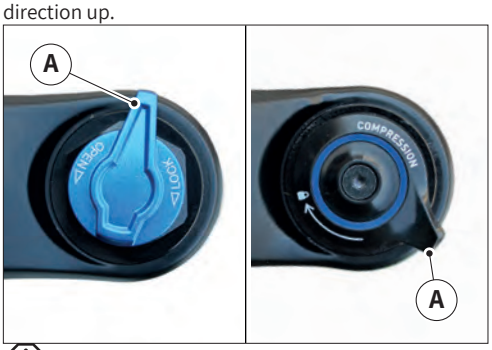
On some forks it is possible to adjust high-speed and low-speed compression:

– To change the high-speed compression speed, turn knob "B" clockwise (+) or counter-clockwise (-) as required.
– To change the low-speed compression speed, turn knob "C" clockwise (+) or counter-clockwise (-) as required.



Front Fork Lock/Unlock (if equipped)

For specific riding conditions, the front fork can be locked by turning the lock lever “A” clockwise on the right fork leg.
To unlock the shock, turn ring nut "A" in the opposite direction up.

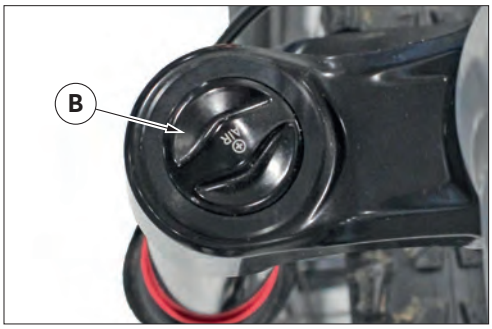


When locked, the fork will still allow minimal travel.

Front fork rebound adjustment

To adjust the fork rebound speed according to riding conditions and rider weight, set the correct air pressure inside the fork as follows:

– Sit on the bicycle and check how much the front fork compresses. The correct value is approximately 20% of total travel.
– If the fork compresses more than this value, remove cap “B” and, using a suitable pump (not supplied), increase the air pressure inside the fork (max. 150 psi).



– If the fork compresses less, release air by pressing the pump valve.

Adjust the rebound speed using the adjuster located under the fork leg:
Turning the lever clockwise results in slower rebound, turning it counterclockwise results in faster rebound.

REAR SHOCK ADJUSTMENT

Rear Shock Lock/Unlock (if equipped)

The illustrations shown are for reference only and may vary depending on the model.

For specific riding conditions, the rear shock can be locked by turning the lock lever “A” to 🔒 as indicated.

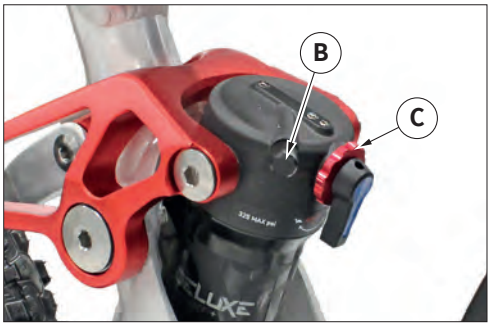
To unlock the shock, turn the adjuster "A" in the opposite direction to 🔓.

Rear shock “REBOUND” adjustment

The illustrations shown are for reference only and may vary depending on the model.

To adjust the shock rebound speed according to riding conditions and rider weight, set the correct air pressure inside the shock absorber as follows:

- Sit on the bicycle and check how much the rear shock compresses. The correct value is approximately 25% of total travel.
- If the shock compresses more than this value, remove cap “B” and, using a suitable pump (not supplied), increase the air pressure inside the shock (max. 325 psi).
- If the shock compresses less, release air by pressing the pump valve.
- Adjust the rear shock rebound speed by turning the adjuster “C”.



ADJUSTABLE GEOMETRY (SIERRA MODELS)

For specific riding requirements, the geometry of the eBike can be adjusted to adapt the bike’s handling to the rider’s preferences.
This adjustment is achieved by changing the orientation of the **flip chips** located at the lower mounting point of the rear shock.

Orientation (A)	Height (B)	Angle (C)
1. Front	+ 7.3 mm + 0.29 in	+ 0.6°
0. Rear	base values (D)	

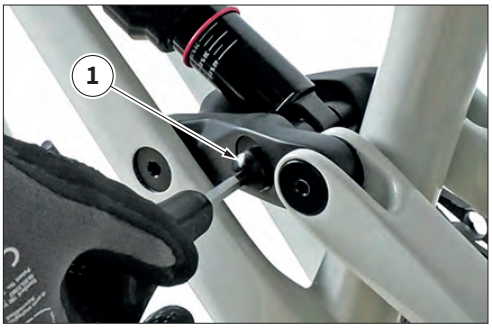
A. Flip Chip orientation and holes symmetrical position.
B. Variation of the bottom bracket height.
C. Variation of the seatpost angle.
D. Refer to section page 9 for the base values.

Flip Chip position adjustment

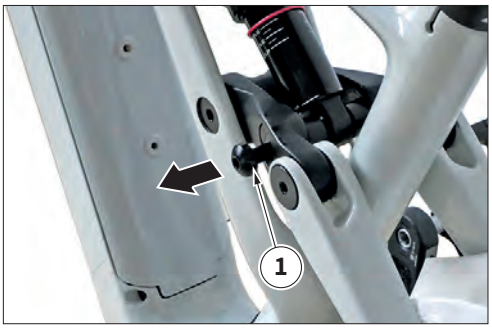
Position the bicycle on a flat and stable surface.

- Support the bicycle with the rear wheel on a work stand or another stable support.
- Protect the inner area of the rear stay with a clean cloth to prevent damage from contact with the seatpost.

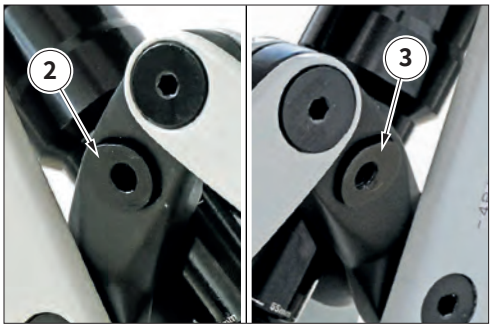
- Loosen the lower mounting bolt “1” of the rear shock.



- While supporting the rear of the bicycle from the saddle, remove bolt “1” and carefully rest the frame on the rear stay.

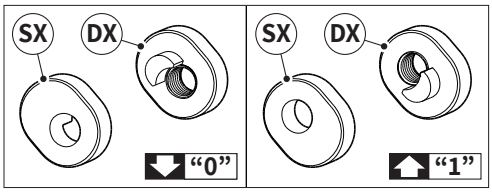


- Remove the left flip chip “2” and right flip chip “3” from the sides of the rocker.

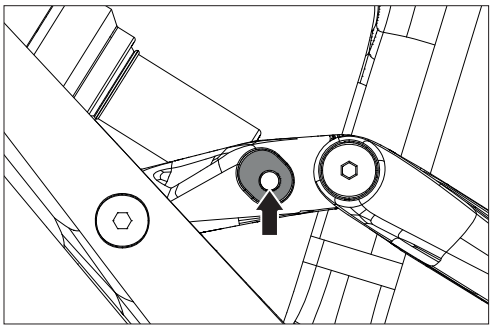


- Rotate the flip chips to the desired position and reinstall them on both sides of the rocker.

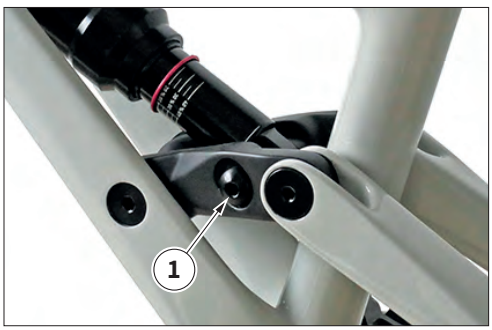
Ensure that the through-hole flip chip is positioned on the left side of the rocker, and the threaded flip chip on the right side.



- Lift and support the rear of the bicycle, then insert the mounting bolt through the holes of the flip chips, the rocker, and the rear shock.



Tighten the rear shock mounting bolt “1” to the specified torque (see section page 42).



BICYCLE SETUP

Proper setup of an **eMTB** is essential not only for comfort, but also to ensure optimal traction when climbing and maximum control when descending.
The steps for correct setup are as follows:

1. Pedalling position adjustment
2. SAG (static sag)
3. Front fork adjustment
4. Rear shock adjustment (if equipped)
5. Handlebar control adjustment
6. Display and component positioning adjustment (dashboard and optional mounts)
7. Tyre pressure adjustment according to riding conditions

Step 1. Pedalling position adjustment

This adjustment determines the correct riding position on the eBike based on the rider's anatomical characteristics.
Proceed as follows:

- Wear all the intended riding gear, including helmet and shoes;
- Sit on the eBike;
- Place one heel on the pedal;
- Rotate the crank arm until it reaches the lowest position, parallel to the seatpost;
- Check that the leg is almost fully extended.

The optimal position is achieved when the vertical projection of the kneecap aligns with the pedal axle.

Refer to section "Saddle adjustment" on page 33 and section "Handlebar adjustment" on page 33 for saddle and seatpost adjustment.

Ensure that all adjustments do not exceed the limit markings on the seat tube and seatpost.

Step 2. SAG (static sag)

The SAG value represents the percentage of suspension compression under the rider's weight in a stationary riding position.

The SAG percentage is calculated as the ratio between the measured sag and the total suspension travel, multiplied by 100.

To perform the measurements, proceed as follows:

- Wear all the intended riding gear, including helmet and shoes;
- Ensure that the front fork and rear shock lockouts are not engaged;
- Get on the eBike in the attack position (standing on the pedals with elbows slightly out);
- With the assistance of another person, measure the sag on both the front fork and the rear shock.

Recommended SAG Values

Model(s)	Front	Rear
All versions	20%	25%

Step 3. Front fork adjustment

The front fork compression adjustment controls how the fork responds to terrain characteristics and helps counteract the inertia generated by the weight of the bicycle and rider.

This adjustment has two main functions:

- **Low-speed** compression: supports the bicycle during braking, cornering, and rider movements, as well as during slow and continuous inputs.
- **High-speed** compression: manages the absorption of sudden and sharp impacts, where rapid fork stanchions movement is required.

Refer to section "Front fork compression adjustment" on page 34 for front fork compression adjustment.
Too firm and stiff compression may cause the following effects:

- Reduced comfort, with increased sensitivity to surface irregularities;
- Excessive reactivity, making the bike harder to control;
- Increased stiffness during riding and braking;
- Reduced suspension travel, affecting rider position and control.

Too soft and smooth compression may cause the following effects:

- Increased comfort, but with greater front and lateral movement in response to terrain irregularities;
- Reduced responsiveness, affecting riding performance;
- Forward weight shift due to excessive dive and compression;
- Risk of damage, as it is more likely to reach full fork compression.

The front fork rebound controls how quickly the fork returns to its extended position after an impact and compression.

The aim of this adjustment is to achieve a rebound that is fast enough without making the bicycle unstable or overly reactive.
Refer to section "Front fork rebound adjustment" on page 34 for front fork rebound adjustment.
A rebound setting that is **too fast** may cause the following effects and/or damage:

- Uncontrolled bouncing over obstacles;
- Loss of traction and reduced ability to maintain line, especially when cornering;
- Increased instability and loss of control;
- Impacts on elbows and wrists due to harsh return of the fork.

A rebound setting that is **too slow** may cause the following effects and/or damage:

- "**Packing**" effect: during repeated or closely spaced impacts, the fork does not have enough time to fully extend, reducing available travel;
- Increased stiffness, resulting in stronger vibrations transmitted to the upper body;
- Compromised geometry, leading to reduced stability and a higher risk of loss of control, overturning, and falls.

Step 4. Rear shock adjustment

The purpose of the rear shock rebound adjustment is to control and influence ground contact and traction of the eBike.

In an eBike, the influence of the rear shock on the rear triangle is greater, as it must support not only the weight of the frame and rider, but also the additional weight of the motor and battery.

Refer to section "Rear shock "REBOUND" adjustment" on page 35 for rear shock rebound adjustment.
A rebound setting that is **too fast** may cause the following effects and/or damage:

- Risk of forward pitching when riding over obstacles;
- Loss of traction under braking due to rear wheel bouncing;
- Reduced stability when cornering, with difficulty maintaining the intended line.

A rebound setting that is **too slow** may cause the following effects and/or damage:

- "**Packing**" effect: during repeated or closely spaced impacts, the shock does not have sufficient time to fully extend, reducing rebound effectiveness and available travel;
- Loss of traction when climbing, with the rear wheel unable to maintain proper contact with the ground;
- Reduced agility and responsiveness, as the shock absorbs all kinetic energy instead of transferring it to the rear wheel.

If a **lockout** function (lock lever) is present on the rear shock, its purpose is to make the suspension stiffer in order to optimise pedalling efficiency by minimising energy loss caused by unwanted oscillations.

Step 5. Handlebar control adjustment

The purpose of correct and effective adjustment of the handlebar controls is to ensure:

- Improved ease of gear shifting;
- Enhanced braking responsiveness and control;
- Prevention of pain and numbness in hands and wrists;
- Improved control with reduced stress on the fingers.

Refer to sections "Brake lever adjustment" on page 33 and "Shifter adjustment" on page 33 for adjustment of levers and controls.

Step 6. Handlebar device adjustment

The purpose of properly adjusting the position and angle of handlebar-mounted devices, whether standard or optional, is to ensure:

- Easier access to controls and buttons;
- Improved readability of information;
- Increased safety and reduced distractions while riding.

Refer to the "DASHBOARD" section for adjustment of standard eBike devices.

Step 7. Tyre pressure adjustment

To determine the correct tyre pressure, follow these guidelines:

- Check the intended use and the types of terrain suitable for the bicycle (see section page 5);
- Consider the specifications and type of tyres installed (see section page 12);
- Check the values printed on the tyre sidewall;
- Take into account the weight limits (see section page 7) and the rider's weight

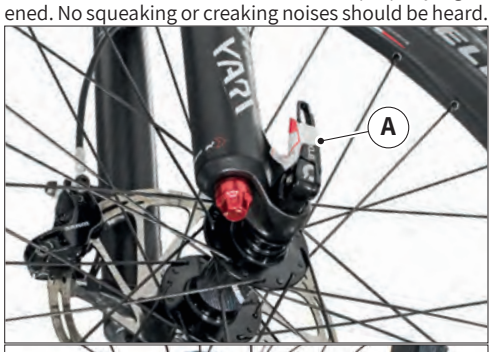
To verify whether tyre pressure is correct, observe tyre behaviour and deformation while riding on a familiar trail.

It is recommended to use a pressure gauge with sufficient accuracy or, if unavailable, contact an authorised service centre.

WHEEL AND TYRE INSPECTION

Wheel fastening check

Working on one wheel at a time, firmly shake the wheel assembly sideways relative to the direction of travel. The wheel locking mechanism must not move. If present, the quick-release lever "A" must be closed. Otherwise, make sure that the wheel axle is properly tightened. No squeaking or creaking noises should be heard.



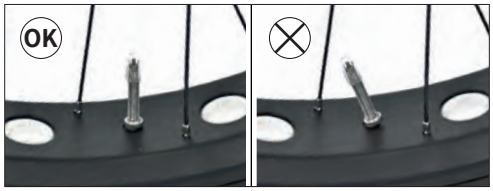
Tyre inspection

Check that the tyres show no external damage, foreign objects or excessive wear. The entire tyre surface must retain its original tread pattern.

- The tyre casing fabric beneath the rubber layer must not be visible.
- There must be no dents or cracks.

Remove any foreign objects (thorns, small stones, glass fragments or similar) by hand or carefully using a small screwdriver.
Check whether air escapes after removing the object. If air escapes, the inner tube must be replaced (see section "FLAT TYRE" – chapter "CLEANING AND MAINTENANCE").

Tyre valve inspection



Due to mechanical stress and insufficient tyre pressure, the tyre and inner tube may shift on the rim and cause the valve to tilt. In this case, the base of the valve may tear during riding, causing a sudden loss of tyre pressure.

- Check the position of the valve: the valves must point towards the centre of the wheel.
- If necessary, deflate the tyre, loosen the valve nut (if present) and try to correct the valve position.
- Tighten the valve nut (if present) and inflate the tyre.

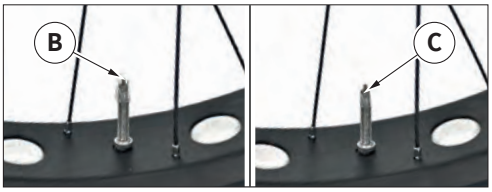
Tyre pressure check

Insufficient tyre pressure may cause the following:

- The tyre and inner tube may shift on the rim, causing the valve to tilt. In this case, the base of the valve may tear during riding, causing a sudden loss of tyre pressure.
- In corners, the tyre may come off the rim.
- The risk of punctures and failures increases.

The greater the rider's body weight and the load, the higher the tyre pressure must be. The reference values are shown in the table below. Please note that the values shown in the table are for reference only. If in doubt, contact your dealer or a tyre specialist. Always respect the minimum and maximum pressure indicated on the tyre.

Use	Bar
Road use	2
Off Road use	1.5



- Unscrew the protective cap "B".
- Check the pressure using a pressure gauge or a pump equipped with a pressure gauge.
- If necessary, inflate the tyre or deflate it by pressing the inner valve "C".
- Screw the protective cap "B" back on.

Wheel inspection

Lift the front wheel and turn it with your hand. The rim and the tire must turn in a perfectly circular way. Eccentricity or warping are not allowed. Operate in the same way for the rear wheel check.
Check that there are no foreign bodies on the wheel units (for example: twigs, fabric residues, etc.), if necessary remove them.
Check that the wheel units have not been damaged by foreign bodies.
If rim reflectors have been fitted, check that they are firmly fixed; if they are loose, remove them.

SADDLE AND SEATPOST INSPECTION

If the seatpost is not inserted deeply enough, it may come out of the frame during riding and cause dangerous riding situations, falls and accidents.

Make sure that the seatpost is inserted to the correct depth (see section "SADDLE ADJUSTMENT" – chapter "ASSEMBLY AND ADJUSTMENTS").
Using both hands, try to rotate the saddle and seatpost inside the frame.

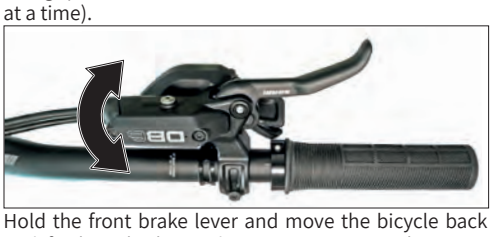
They must not move. If any component moves, secure it properly.

HANDLEBAR INSPECTION

If the handlebar or handlebar stem is not correctly installed or is damaged, this may lead to dangerous riding situations, falls and accidents.

If defects are detected in these parts, or if you have any doubts, do not use the bicycle and contact your dealer or a qualified technician.
Carry out a visual inspection of the handlebar and its stem. The stem must be aligned with the front wheel rim, and the handlebar must be positioned perpendicular to it.
Hold the front wheel firmly between your legs, grasp the handlebar at both ends and try to turn it in both directions using force.
Still applying force with your hands, try to rotate the handlebar within the stem.

Also check the attachment of the shifter, brake levers and grips on the handlebar. Pull the brake levers (one at a time).



Hold the front brake lever and move the bicycle back and forth with short, abrupt movements. The steering assembly must not have any play. No squeaking or creaking noises should be heard. If any defects are detected, contact your dealer or a qualified technician.

No component must move or shift. No squeaking or creaking noises should be heard. If any component moves, secure it properly.

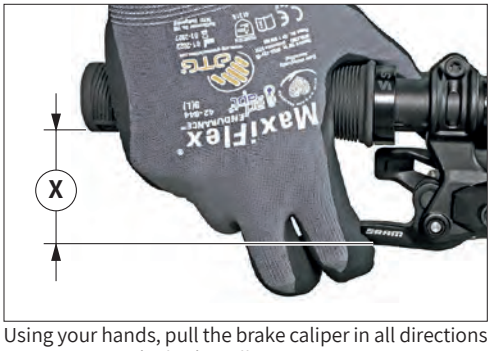
BRAKE INSPECTION

Risk of serious falls. Non-functioning brakes always lead to dangerous riding situations, falls and accidents. Brake malfunction may represent a serious safety hazard.

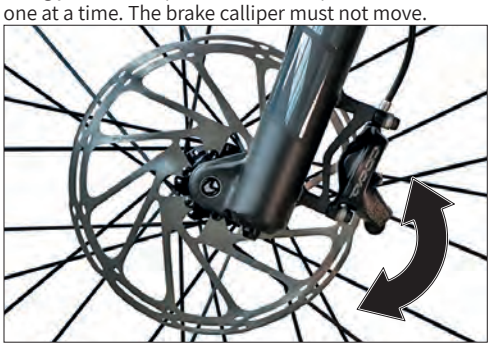
Check your braking system carefully. If defects are detected, or if you have any doubts, do not use the bicycle and contact your dealer or a qualified technician. While stationary, pull both brake levers fully.
The minimum distance "X" between the brake lever and the handlebar grip must be at least:

"X" = 10 mm (0.39 in)

Try to move the bicycle back/forth; both wheels must remain locked.



Using your hands, pull the brake caliper in all directions one at a time. The brake calliper must not move.



Dirty brake discs must be cleaned immediately. The presence of oil and/or grease on the brake discs may reduce braking performance and generate dangerous riding situations, falls and accidents.

While stationary, operate the brake lever several times and keep it pulled. The pressure point must not change. Visually inspect the brake system starting from the lever and continuing with the cables and brakes. There must be no leakage of hydraulic fluid. Check that the brake

disc is not damaged. It must be free of notches, cracks, deep scratches and other mechanical damage.
Lift the front wheel first, then the rear wheel and spin them by hand. The brake rotor must rotate smoothly.

Improper use of the brakes may result in accidents, personal injury or death.

CHAIN AND CRANK ARM FASTENING CHECK

Operating in two persons, one must lift the rear wheel so that it is no longer in contact with the floor and the other must rotate the right crank arm clockwise. From above, check the alignment of the chainring and cassette.

Even the slightest eccentricity of the chainring or cassette is not permitted.

Make sure there are no foreign bodies and remove them if they are found.
Check that the chain is not damaged. The chain must not show any damage, such as bent chain plates, protruding rivets, or stiff and seized chain links.
Check the fastening of the chainring to the right crank arm, making sure that there is no play.

Avoid personal injury. Remove the battery pack from its housing before inspecting the bicycle.

ELECTRIC MOTOR INSPECTION

A defective or damaged electric drive unit may cause a short circuit, resulting in a risk of fire.

Switch on the electric control unit only after all other checks have been completed.
Pay attention to any error messages displayed on the screen.

LIGHTS INSPECTION (IF EQUIPPED)

This section applies only if the bicycle is equipped with lighting for use on public roads or if such equipment has been installed later.

Risk of falls and accidents in darkness and/or poor visibility. There is a high risk of not seeing obstacles or not being seen by other road users. Riding at high speed without paying full attention may result in accidents, personal injury or death.

Switch on the lights and check the integrity and secure mounting of the front and rear lights.

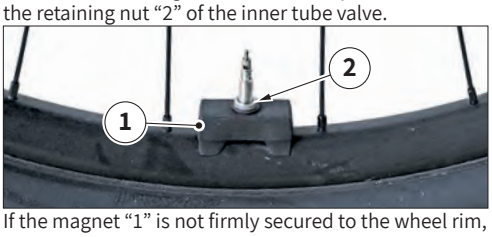
RIM MAGNET INSPECTION

The magnet is mounted on the valve of the rear wheel of the electric bicycle.

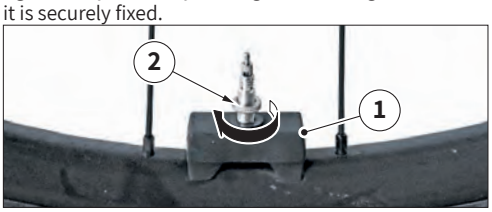
The drive unit automatically detects the magnet and calculates the speed and all other required data.

Since the drive unit is sensitive to magnetic fields, avoid the presence of other magnetic fields nearby.

Check that the magnet “1” is correctly secured under the retaining nut “2” of the inner tube valve.



If the magnet “1” is not firmly secured to the wheel rim, tighten it by manually turning the retaining nut “2” until it is securely fixed.



OTHER CHECKS

Damaged bicycle components may have sharp edges that could cause injury.
Check all components for possible damage.
Have any damaged parts repaired or replaced immediately by your dealer or a qualified technician.

Accessories inspection

The bicycle may be equipped with additional accessories (e.g. rear rack, bags, bottle cage, etc.).
Always check that these accessories are correctly installed and securely fastened.

No component must move or shift. No squeaking or creaking noises should be heard. If any component moves, secure it properly.

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PEDALS INSTALLATION

Some of the operations described in this section may be carried out by the user. Perform these operations only if the specified tools are available. All other operations must be carried out exclusively by an authorised dealer or qualified personnel.

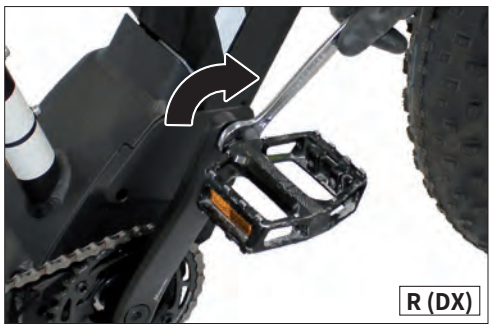
The bicycle is supplied without pedals for transport reasons.

The illustrations shown are for reference only and may vary depending on the model.

To install the two pedals:

- Remove the protective film from the pedals.
- The pedals are different from each other and are marked with the letters "R" (right) and "L" (left).
- Screw the right pedal onto the right crank arm by turning it clockwise.

Use a 15 mm open-end wrench to tighten the pedal (see section page 42).



- Screw the left pedal onto the left crank arm by turning it counter-clockwise.

Use a 15 mm open-end wrench to tighten the pedal (see section page 42).

WHEEL ASSEMBLIES

The illustrations shown are for reference only and may vary depending on the model.

Removal of the wheel assemblies is required when repairing a tyre or other wheel components. It may also be useful for transporting the bicycle (e.g. in a car trunk).

It is absolutely compulsory to deflate the tyres when transporting the bicycle in a car or any other vehicle.

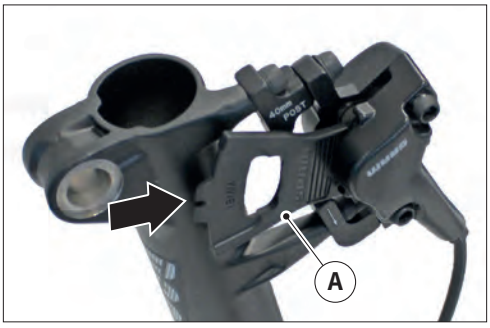
Front wheel removal

- Open the quick release lever and unscrew the front wheel axle.

- Support the front wheel and remove the axle from the fork.

- Remove the front wheel from the bicycle.

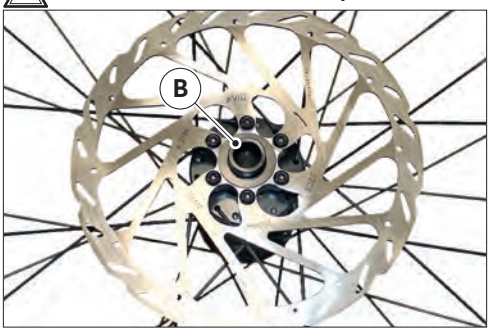
- Insert the supplied transport spacer “A” between the brake pistons.



Use only the supplied transport spacer.

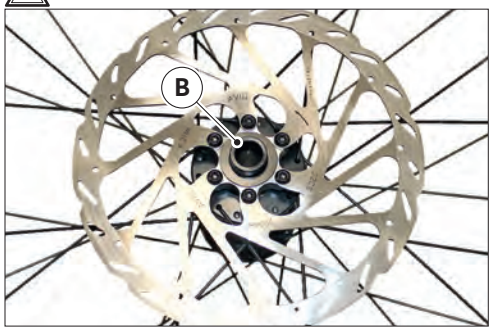
Do not operate the front brake lever after installing the transport spacer.

Be careful not to lose the two spacers "B".

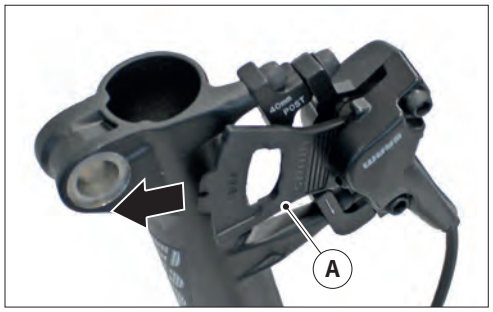


Front wheel installation

Ensure that the two spacers “B” are present.



- Remove the transport spacer “A” from the brake pistons.



Do not operate the front brake lever after removing the transport spacer.

- Insert the wheel into the fork, ensuring that the brake disc is correctly positioned between the brake pistons.
- Insert the axle from the side opposite the brake and push it through until it protrudes from the opposite side of the wheel hub.

- Tighten the front wheel axle and close the quick-release lever.
- Check that the wheel is firmly and correctly installed.

Check that the wheel is firmly and correctly installed. If the quick-release lever is not securely closed, the front wheel may loosen or shift. This could result in dangerous riding conditions, falls, accidents, personal injury or death.

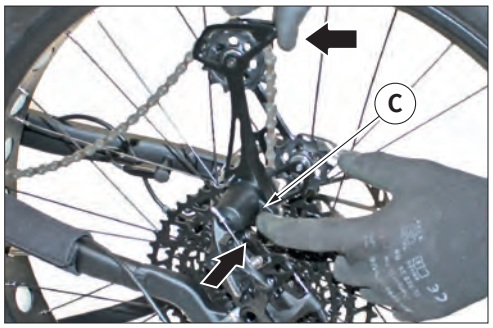
When installing the front wheel, strictly follow the instructions provided by the front axle manufacturer. An improperly secured front wheel may detach from the bicycle, causing accidents, personal injury or death.

Rear wheel removal

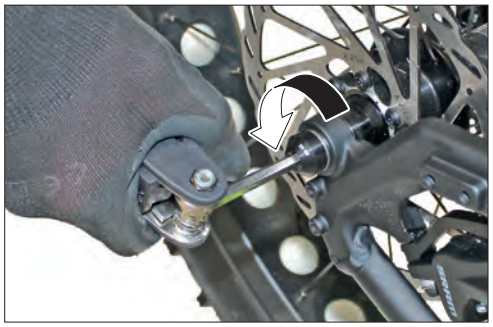
Position the bicycle so that it is stable and the rear wheel is off the ground.

– Using the shifter, move the chain onto the smallest sprocket (see section page 18).

– Push the rear derailleur forward and press button “C” to lock it. The chain becomes slack.

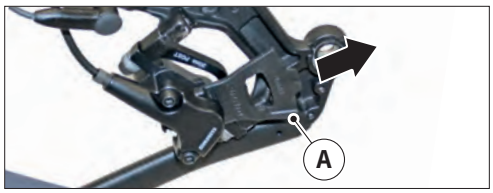


– Use a 6mm Allen key to unscrew the axle from the brake side.
– Withdraw the axle from the frame.



– Remove the chain from the sprocket and remove the wheel.

– Insert the supplied transport spacer “A” between the brake pistons.

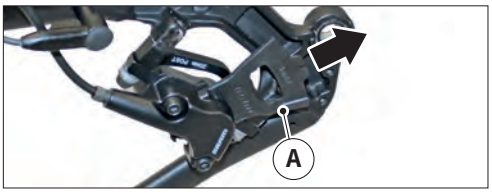


Use only the supplied transport spacer.

Do not operate the rear brake lever after installing the transport spacer.

Rear wheel installation

– Remove the transport spacer “A” from the brake pistons.

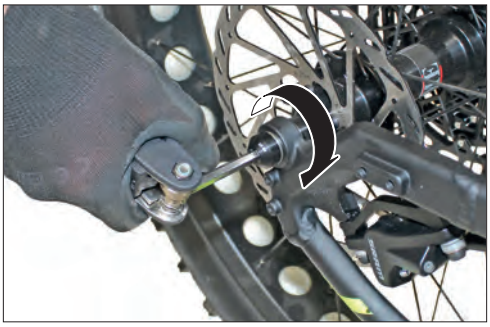


Do not operate the rear brake lever after removing the transport spacer.

– Insert the wheel into the rear triangle of the frame, positioning the chain on the smallest sprocket and ensuring that the brake disc is positioned between the brake pistons.

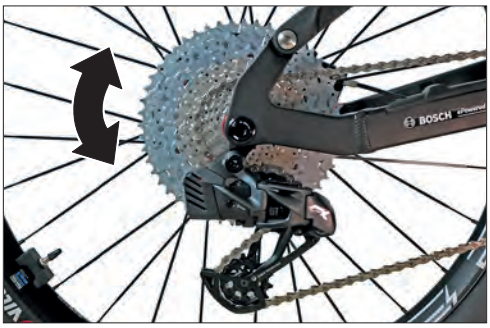
– Insert the axle from the brake side and push it through to the opposite side of the wheel hub.

– Using a 6 mm Allen key, tighten the axle from the brake side.



Tighten the axle to the specified torque (see section page 42).

– Push the rear derailleur forward to release it from the locking mechanism.
– Check that the wheel turns freely.



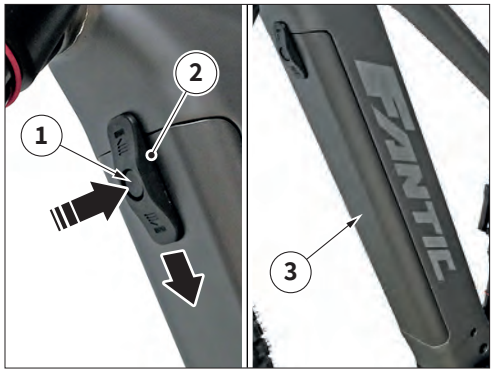
Check that the wheel is firmly and correctly installed. If the rear wheel is not firmly closed, it may come loose and move. This may result in dangerous riding situations, falls and accidents.

BATTERY PACK (RIDGE VERSIONS)

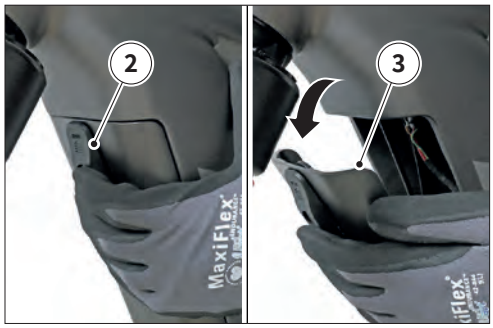
Before removing or installing the battery pack, ensure that the control system is switched off.

Battery pack removal

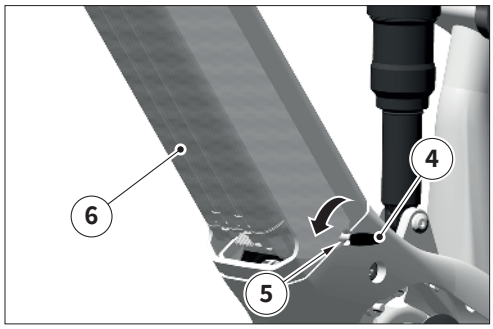
– Press and hold button “1” on the release mechanism “2” of the battery cover “3”, located on the underside of the top tube;



– Lower the release mechanism “2” and remove the battery cover “3” from the underside of the top tube;

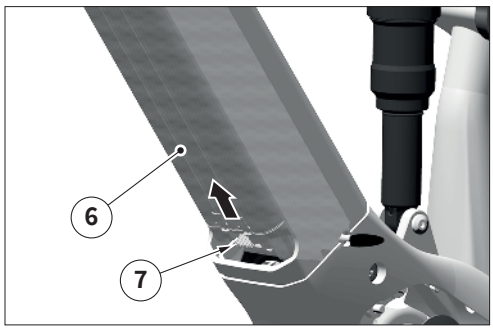


– Insert the supplied key “4” into the lock “5” and turn it counterclockwise until a click is heard, indicating that the battery pack “6” has been unlocked;



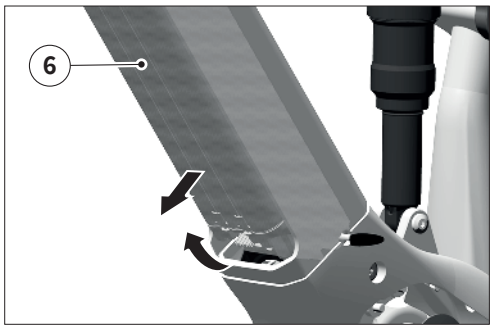
Ensure that the battery pack “5” is held securely during removal.

– Push the battery pack retaining mechanism “7” upward from below;



– While holding the retaining mechanism button “7”, pull the battery pack “6” downward and remove it

from the bicycle, then retrieve the key;



– While waiting to reinstall the battery pack or install a new one, refit the battery cover “3” using the latching mechanism “2”.

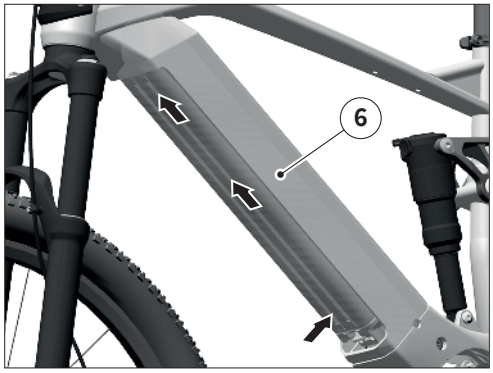
It is recommended not to leave the battery compartment open for extended periods, to prevent the accumulation of moisture, dust and dirt.

Battery pack installation

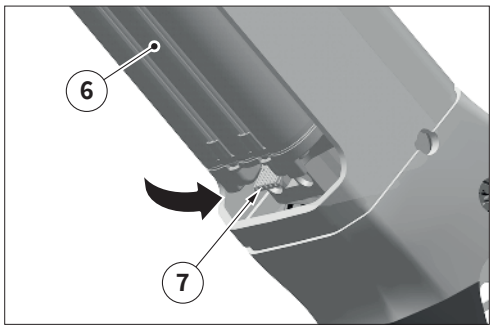
If installed on the bicycle, remove the battery cover as previously described.

Ensure that the battery pack “6” is held securely during installation.

– Insert the battery pack “6” from below and gently push it upward;



– Push the battery pack “6” into the battery compartment until the retaining mechanism “7” engages with a click.



– Refit the battery cover “3” from the underside of the top tube, holding button “1” pressed and operating the latching mechanism “2”.

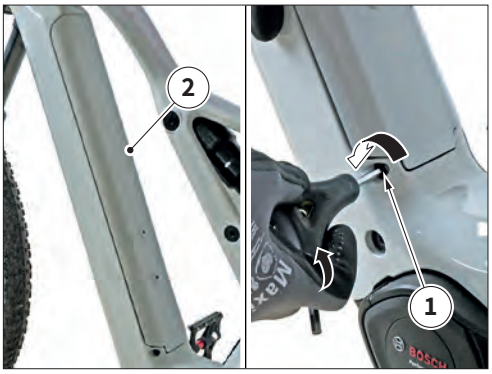
BATTERY PACK (SIERRA VERSIONS)

Before removing or installing the battery pack, ensure that the control system is switched off.

Battery pack removal

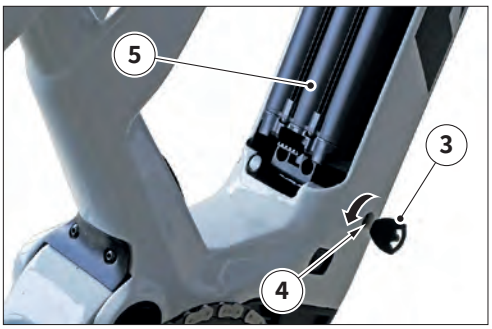
If installed, remove the water bottle and bottle cage.
If installed, remove the Range Extender.

– Remove the retaining screw “1” securing the battery cover “2” from the upper side of the top tube.



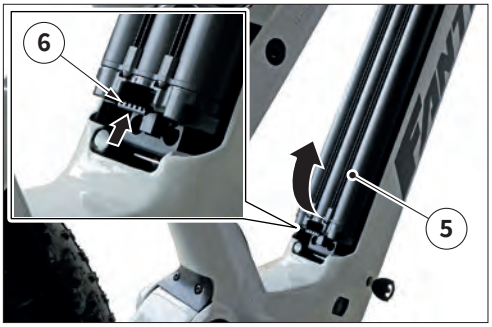
– Slide the battery cover “2” sideways with a slight rotation.

– Insert the key “3” into the lock “4” and turn it counterclockwise.

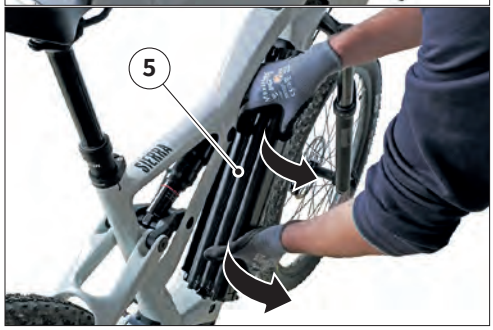


Ensure that the battery pack “5” is held securely during removal.

– Push the battery pack retaining mechanism “6” upward from below;



– While holding the retaining mechanism button “6”, pull the battery pack “5” downward and remove it laterally from the bicycle;



– Remove the key and, while waiting to reinstall the battery pack or install a new one, refit the battery cover “1” using the latching mechanism “2”.

It is recommended not to leave the battery compartment open for extended periods, to prevent the accumulation of moisture, dust and dirt.

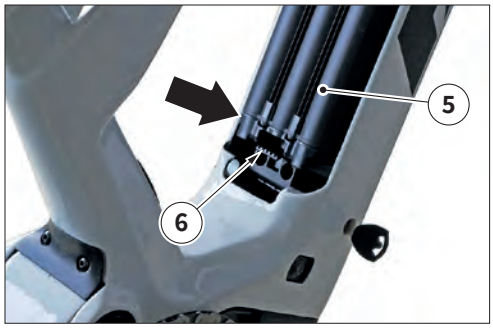
Battery pack installation

If installed on the bicycle, remove the battery cover as previously described.

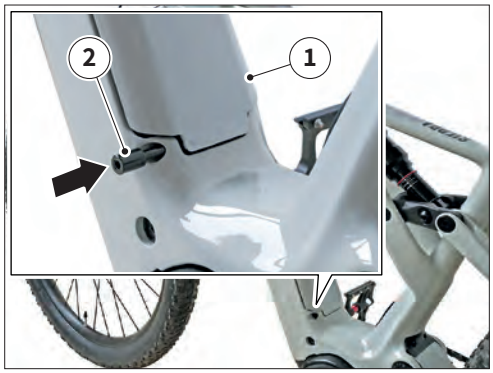
Ensure that the battery pack “5” is held securely during installation.

– Insert the battery pack “5” laterally: position it inside the compartment and gently push it upward from below, allowing it to slide along the guide;

– Push the battery pack “5” into the battery compartment until the retaining mechanism “6” engages with a click;



– Refit the battery cover “2” on the upper side of the top tube and install the screw “1”.



Tighten the battery cover screw to the specified torque (see section page 42).

INSTALLATION OF ACCESSORIES

The installation of accessories or components not approved for this bicycle may cause damage and compromise the safety of operation. This may result in dangerous riding situations, falls and accidents.

Before purchasing and installing accessories and/or components to modify the bicycle, always contact an authorised Fantic service centre to verify compatibility and suitability.

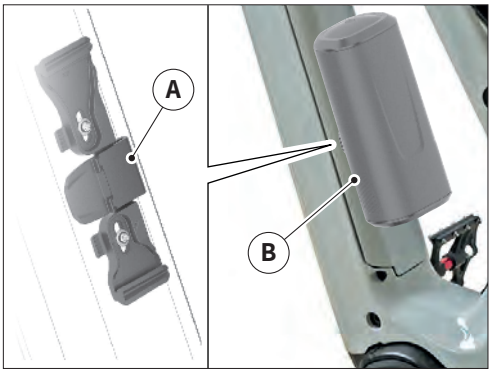
Do not independently install accessories or equipment on the bicycle and do not attempt to modify it.

For any modifications, always choose accessories and components together with a specialist dealer.

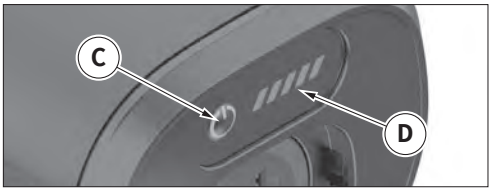
When considering accessories and any additional load, always take into account the maximum permitted weight of the bicycle (see section “Weight limit” on page 7).

Bosch® PowerMore 250 Range Extender Installation

– Position the **Range Extender** support “A” on the top tube of the eBike so that the marking “**TOP**” is facing upward.
– Secure the support to the frame using the screws supplied for bottle cage mounting.



– Before using the **Range Extender**, check its operation by pressing the On/Off button “C”.



If none of the LEDs on the charge level indicator “D” light up, the device may be damaged. In this case, contact an authorised dealer.

If at least one LED lights up, but not all, proceed with charging the Range Extender.

For further information regarding the use and charging of the **Range Extender**, refer to section “Use of the Range Extender” on page 31.
For technical specifications of the **Range Extender**, refer to section “Technical Specifications – Bosch® PowerMore 250 Range Extender” on page 16.

TIGHTENING TORQUES

The tightening torque (Nm) to be used is indicated on the head of the screw. If no specific information is provided by the manufacturer, refer to the following tightening torque values.

Component	Thread	Tightening torque (Nm)
Pedals	9 / 16”	30
Crank bolts	M15	50
Handlebar stem expansion bolt	M8	5
Handlebar stem angle adjustment bolt	M6	6
Handlebar stem bolts	M5 M6 M7	5 6 7
Grips clamp bolt	M4 M5	3 5
Seatpost mount	M8	10
Seat mount	M6	10
Brake	M6	8
Brake unit screws	M6	8
Brake lever clamp bolt	M5	5
Shifter clamp bolt	M5	5
SRAM AXS Pod controller clamp bridge bolts (if applicable)	T25	2
Shock rocker bolt	M10x1	14
Lower shock mounting bolt	M8	12
Swingarm pivot bolt	M10x1	18
Frame rocker bolt	M10x1.5	18
Linkage strut bolt	M6	4
Wheel pin	M12x1.25	12
Battery cover fixing screw (**SIERRA** models only)	M6	8
Flip chip adjustment screw / variable geometry adjustment screw (**SIERRA** models only)	M8	12

RECOMMENDED MAINTENANCE SCHEDULE

To maintain the bicycle in an efficient and high-performance condition, it is important to carry out the recommended periodic checks and schedule all planned maintenance operations with an authorised dealer or workshop. This section lists the maintenance operations permitted to the user and those intended for authorised dealers and workshops.
Routine maintenance may be carried out by the user only if:

- Basic technical knowledge is available;
- There is sufficient confidence in performing the maintenance tasks described in this section;
- Suitable tools and products are available.

If damaged or excessively worn components are detected, contact an authorised dealer for replacement.
Errors resulting from improper maintenance work may cause damage to the bicycle and compromise safe operation, leading to dangerous riding conditions, falls and accidents.
Failure to perform, or incorrect execution of, periodic checks may result in dangerous riding conditions, falls and accidents.
Any operation not specified and described in this section must be carried out exclusively by an authorised dealer or qualified personnel.

The user is not permitted to:

Modify and/or alter the characteristics of the bicycle components;
Install components that are not suitable and/or not intended for the type of bicycle and its intended use (see section "Intended use" on page 5).

Description of operation	User			Authorised dealer	
	Before each use	After each use	After use in adverse weather [A]	Every 500 km (300 mi)	Every 3,000 km (1,800 mi) Yearly check
Saddle, seatpost, pedals check and handlebar adjustment	√				
Electric assist system operation check	√				
Brakes and shifters check	√	√	√		
Wheels and tyres inspection	√	√	√		
Suspension response check [B]	√	√	√		
Tyre condition and foreign object check		√	√		
Wheel spokes and rim trueness check		√	√		
Wheel fastening devices and handlebar controls check		√	√		
Chain cleaning and lubrication		√	√		
Lights operation and alignment check (if installed)		√	√		
Hydraulic brake oil leak check		√	√		
Wheel and rear magnet cleaning (located on the rear wheel)			√		
Drivetrain (cassette and rear derailleur) cleaning and check			√		
Brake surface and wear condition check			√		
Lubrication and greasing of moving components			√	√	√
Brakes, discs, wheels and tyres inspection and adjustment				√	
Headset and pedals inspection and adjustment				√	
Drivetrain inspection and adjustment [C]				√	
Suspension components inspection and adjustment				√	
Frame and fastening elements inspection and adjustment				√	
Control system diagnostics and firmware update					√
Brakes, wheels and headset maintenance					√
Drivetrain maintenance [C]					√
Suspension components maintenance [B]					√
Frame, bearings and fastening elements maintenance					√
Drive unit, battery and cables maintenance					√

A. **"Adverse weather"** refers to maintenance operations to be carried out after riding in the following conditions:
   - Heavy rain;
   - Snow or hail;
   - Mud or sandy terrain.

B. "Suspension" refers to the following bicycle components:
   - Front fork;
   - Rear shock absorber;
   - Rocker link.

C. **"Drivetrain"** refers to the following bicycle components:
   - Front chainring and spider;
   - Cassette;
   - Rear derailleur;
   - Crank arms.

BICYCLE CLEANING

Insufficient care and cleaning of the bicycle may result in riding issues, falls and accidents.

Proceed as follows:

- Disconnect and remove the battery pack; clean it using a dry or slightly damp cloth.
- If dirt is present inside the battery compartment, use a low-pressure air jet, then close the compartment.
- If possible, remove the display or protect it adequately.
- If a Range Extender is installed, remove it and close the charging port; clean it using a dry or slightly damp cloth.
- Remove coarse dirt (mud, soil, sand, grass and other debris) using a gentle stream of water.

Do not use a pressure washer or direct high-pressure water jets.

- Allow the bicycle to dry completely;
- Apply a suitable detergent over the entire bicycle;
- Rinse all parts thoroughly using a gentle stream of water;
- Cleaning with water may be supplemented with a non-abrasive sponge or cloth;
- Allow the bicycle to dry completely.

Clean and lubricate the chain:

- Apply a few drops of chain cleaner onto a clean, lint-free cotton cloth.
- Rub the cloth along the chain;
- Advance the chain and wipe the remaining sections using the soaked cloth;
- Lift the rear of the bicycle using a suitable stand or with the help of another person, so that the rear wheel is not in contact with the ground;
- Rotate the crank **slowly** in the direction of travel to distribute the cleaner;
- Ensure that the entire chain has been lubricated;
- Allow the cleaner to evaporate for approximately 1 hour;
- Apply a small amount of bicycle chain lubricant to the chain links;

Excessive lubricant or the use of unsuitable products may cause dripping onto the brake disc, contaminating it and significantly reducing braking performance.

- Remove excess lubricant from the chain with a clean, dry, lint-free cotton cloth.

Cleaning rims and brake discs:

- Use only a suitable degreaser and a clean, lint-free cotton cloth to clean the surfaces of the brake discs and wheel rims.

If suitable cleaning products are unknown, consult an authorised dealer.

The use of lubricants intended for motorcycle chains or other specific applications may cause the chain and drivetrain components to seize.

Use only lubricants specifically designed for bicycle chains.

Cleaning the frame and bicycle components:

- Manually remove residual dirt from the frame, handlebar, fork and saddle using a suitable detergent and a clean, lint-free cotton cloth.

For frame cleaning, it is recommended to use only water and neutral soap.

- To polish the bicycle, apply a spray wax or similar protective product to the frame, handlebar, fork and seatpost.
- After the drying time specified by the product, polish using a clean, lint-free cotton cloth.

Avoid applying spray wax or polishing products to the brake disc surfaces, as this may significantly reduce braking performance.

The following components must not be treated with protective products:

> Brake pads.
> Brake discs.
> Grips, brake levers and shifter levers.
> Seat.
> Tires.

STORAGE AND MAINTENANCE

This section provides all the information required to correctly perform the operations necessary for the proper storage and maintenance of the eBike components.

Charger cleaning and storage

To clean the charger and power cables, use only a dry cloth.

Do not use water and/or detergents.

Do not wash or immerse the charger in water or other liquids.

Store the charger and power cables in a clean, dry place. Select a location away from heat sources, metal objects and/or electrical conductors, flammable materials and/or liquids.

Keep the charger out of reach of children and animals.

Periodically check the cleanliness of sockets and plugs.

Actions strictly to be strictly avoided when using the charger:

- Do not wrap the charger in a towel, blanket or other materials.
- Do not use the charger with cables other than those supplied. Do not use extension cords. Do not bend or coil the cables during charging.
- Do not connect the charger to the same power outlet as other devices.
- In case of visible damage, swelling, fluid leakage, unusual odours or other anomalies, do not use the charger and contact an authorised dealer.
- Do not open the charger under any circumstances: risk of short circuit or fire.
- Do not modify or attempt to repair the charger or its power cables: risk of electric shock and fire.
- Do not use the charger if it has been subjected to impact or has come into contact with water or other liquids. Contact an authorised dealer for inspection or replacement.

Battery pack cleaning and storage

To clean the battery pack, use only a dry cloth.

Do not use water and/or detergents.

Do not wash or immerse the battery pack in water or other liquids.

Store the battery pack in a clean, dry place. Select a location free from heat sources, metal objects and/or electrical conductors, flammable materials and/or liquids.

Keep the battery pack out of reach of children and animals.

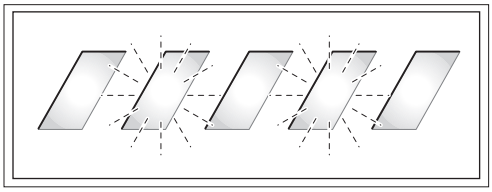
Battery life can be extended through proper care, especially by storing it within the following **temperature range**:

–10°C to +60°C (32°F to 104°F)

As the battery ages, its capacity may decrease significantly, even with proper care.

A noticeable reduction in operating time after charging indicates that the battery pack is worn out and must be replaced.

The battery used in this eBike is equipped with a **Battery Management System (BMS)**, which protects it against deep discharge, overcharging, overheating and short circuit. In case of danger, the battery is automatically deactivated by this control system.
If a battery fault occurs, the two LEDs on the charge level indicator begin to flash:



In this case, do not attempt to open, repair or tamper with the battery pack, but contact a specialised workshop immediately.

Actions strictly to be strictly avoided when handling the battery pack:

- Do not open the battery pack under any circumstances: risk of short circuit or fire.
- Do not modify or attempt to repair the battery pack: risk of electric shock and fire.
- In case of visible damage, swelling, smoke, unusual odours, fluid leakage or other anomalies, do not use the battery pack and contact an authorised dealer.
- If the battery pack has been subjected to impact or has come into contact with water or other liquids, do not reinstall or use it. Contact an authorised dealer for further instructions and possible replacement.

Flat or punctured tyre

If a tyre is flat and deflates again after inflation, it may be punctured or damaged.
For tyre replacement, contact an authorised dealer or a specialised tyre technician.
If repairing the tyre independently, the following tools and spare parts are required:

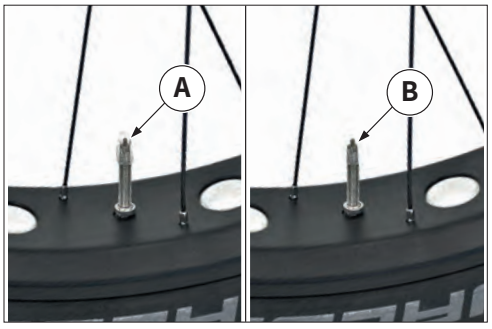
> 2 tyre levers
> Inner tube (new) with the same valve type and size as the one to be replaced
> Tyre (new) if necessary
> Pump compatible with the valve type.

If a tyre is not repaired correctly, it may fail suddenly and unexpectedly, causing accidents, personal injury or death.

Do not attempt to replace a tyre or inner tube without the appropriate tools.

Proceed as follows:

- Remove the wheel assembly (see section page 39);
- Remove the valve cap “A”;
- Fully deflate the tyre by pressing the valve core “B”;



- Lift the tyre bead off the rim using tyre levers, starting from the point opposite the valve;
- Remove the inner tube from the tyre and note its orientation inside the tyre.

Identifying the cause of the puncture:

- Inflate the damaged inner tube using a pump;
- Locate the point where air is escaping;
- Once the leak has been identified, rotate the inner tube so that the valve faces inward.

If the leak is on the inner side:

– Check whether there are one or two small holes close together.

The presence of two small holes indicates a pinch puncture (snake bite), which often occurs when riding over sharp obstacles with insufficient tyre pressure.

– Check that the rim tape is correctly positioned;
– Ensure that all spoke holes are covered;

If the rim tape does not cover all spoke holes, contact an authorised dealer for replacement.

– Check that the rim is not damaged: there must be no sharp edges, splinters, deformation or other visible defects.

If damage to the rim is detected, contact an authorised dealer for replacement.

– If the rim is not damaged, install a new inner tube.

If the leak is on the outer side:

– Place the inner tube next to the tyre mounted on the rim, maintaining its original orientation;
– Identify the area of the tyre corresponding to the hole in the inner tube and check for punctures or embedded objects such as a thorn, stone or glass fragment;
– Carefully remove the object that caused the damage using a suitable tool;
– If the tyre is significantly damaged or torn, it must be replaced.

Inspect the inside of the tyre with extreme caution to avoid cuts or finger injuries caused by debris or sharp objects left inside the tyre.

If the tyre replacement is required:

– Remove the tyre completely from the rim;
– Install a new tyre on one side of the rim, checking that the direction arrow on the tyre matches the intended direction of wheel rotation.

Ensure that the direction arrow on the tyre corresponds to the intended direction of travel. Incorrect installation may result in damage and unpredictable behaviour.

If the tyre replacement is not required:

– Slightly inflate the new inner tube so that it takes the correct shape for installation;
– Insert the valve through the corresponding hole in the rim;

The valve must be aligned towards the centre of the wheel (see section “Tyre valve inspection” on page 37).

– Push the section of the tyre bead still outside the rim into the rim at the valve position.
– Then push the tyre beads into the rim along the entire circumference, starting from the valve;

At the point opposite the valve, greater force is required to seat the tyre. Use tyre levers if necessary, taking care not to damage the inner tube.

– Slightly inflate the inner tube;
– Move the tyre back and forth and laterally relative to the direction of travel;

Ensure that the tyre is evenly seated on the rim and that the inner tube is not visible at any point.

– Inflate the tyre to the specified pressure (see the value printed on the sidewall of the tyre or the indications provided in the packaging).
– Install the wheel assembly (see section page 39).
– Check the tyres.

EXTENDED PERIODS OF INACTIVITY

For periods of inactivity exceeding **3 months**, observe the following precautions:

– Remove the battery from the bicycle;
– Charge the battery to a level between **30%** and **60%**;
– Store the battery in a cool, dry and well-ventilated place, away from heat sources and flammable materials;
– Periodically check the battery charge level, at least once every **6 months**;
– If the charge level drops below **30%**, recharge the battery.

If the battery pack is stored in a fully discharged state for extended periods, it may become damaged or suffer a significant loss of capacity.

– Check the tyre pressure (minimum 1 bar) and inflate the tyres at least every 4 months.

ADDITIONAL OPERATIONS

For all maintenance operations not described in this section, contact an authorised dealer.

DISPOSAL

The eBike and its components must not be disposed of as household waste at the end of their service life.
Return to the dealer is possible if the dealer offers voluntary take-back or is legally required to do so in accordance with applicable national regulations.

Individual components of the eBike, as well as accessories and packaging, must be disposed of in an environmentally responsible manner.

Ensure that no personal data remains stored on these eBike components.

To prevent possible damage to the environment or human health caused by improper waste disposal, the owner is required to separate this product and dispose of it responsibly, in accordance with the following guidelines and applicable regulations.

WEEE Declaration

In accordance with **EU Directive 2012/19/EU** and subsequent **EU Directive 2024/884**.

The symbol shown on the product and in its documentation indicates that this product must not be disposed of with other household waste at the end of its service life.

Batteries and battery waste

In accordance with **EU Directive 2008/98/EC**, **EU Regulation 2019/1020** and subsequent amendment **EU 2023/1542**.

Batteries that can be removed from eBike components without being destroyed must be removed prior to disposal and collected separately.

Domestic users (vehicle owners) are advised to contact an authorised dealer or the relevant local authority for information regarding separate collection and recycling of this type of product.

Business users (company or shared-use vehicles) are advised to contact their supplier and verify the terms and conditions of the purchase contract.

CLEANING AND MAINTENANCE

MALFUNCTIONS AND TROUBLESHOOTING

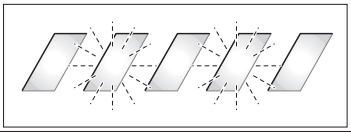
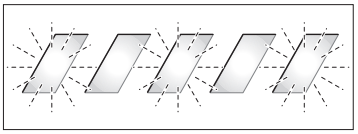
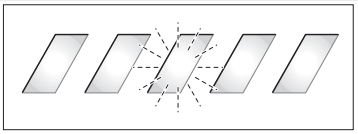
To view any existing errors, with the battery pack installed, the eBike Flow **app can be used: follow the instructions provided in the app.**

In the event of any malfunction, whether evident or not and not covered in this section, contact an authorised Fantic dealer.

Battery pack error indications

The following table lists a series of fault conditions detected by the BMS and indicated by the LEDs on the battery charge level indicator.

To view the charge level indicator, the battery pack must be removed from the eBike (see section "Battery Pack" page 40).

Cause	Indicator	Remedy
Battery pack faulty **Two LEDs flashing on the battery pack indicator.**		Contact a specialised workshop.
Battery pack too hot or too cold. **Three LEDs flashing on the battery pack indicator.**		Disconnect the battery pack from the charger until the operating temperature range is reached (see section page 20)
Charger not charging. **One LED flashing on the battery pack indicator.**		Contact a specialised workshop.
Charger not charging. **No LEDs flashing on the battery pack indicator.** Depending on the battery charge level, one or more LEDs remain steadily lit.		Contact a specialised workshop.
Charging procedure not possible.	**No indication on the battery pack!**	Contact a specialised workshop.
Connector not properly inserted		Check all connections and connectors.
Contacts on the battery pack or charging socket dirty.		Clean the contacts carefully.
Charging socket, cables or charger faulty.		Check the mains voltage and have the charger inspected by a specialised workshop.
Battery pack faulty		Contact a specialised workshop.

Control unit error messages

Error display

The control unit indicates whether critical or non-critical errors occur on the eBike. Error messages generated by the eBike can be accessed via the **eBike Flow** app or through a **specialised workshop**. A link within the **eBike Flow** app may provide additional information about the error and the necessary support for resolution.

Non-critical errors

- On the **Bosch® Purion 200** control unit, error messages are displayed as pop-ups directly on the display. Errors are acknowledged by pressing the selection button "4" on the control unit. – Images and references indicated can be found in section page 21.
- On the **Bosch® System Controller**, non-critical errors are indicated by a flashing orange light followed by a steady illumination of the pedal-assist level LED "9". To acknowledge the error, press the selection button "7" on the **Remote Mini** control unit "1" or the mode button "13" on the **System Controller** "2". The pedal-assist level LED "9" then returns to displaying the selected pedal-assist level colour steadily. – Images and references indicated can be found in section page 24.
- On the **Bosch® Kiox 400C** control unit, error messages are displayed as pop-ups directly on the display. Errors are acknowledged by pressing the selection button "7" on the **Kiox 400C** control unit. – Images and references indicated can be found in section page 27.

The following table provides guidance for independent troubleshooting of possible faults. If the issue cannot be resolved, contact a specialised workshop.

Number	Fault resolution
523005	The error codes indicated signal faults in the detection of the magnetic field by the sensors. Check that the magnet has not been lost during riding. If a magnetic sensor is used, verify that the sensor and magnet are correctly installed. Also check that the sensor cable is not damaged. If a wheel magnet is used, ensure that there are no magnetic interference sources near the drive unit.
514001	
514002	
514003	
514006	
660001	Restart the eBike. If the problem persists, do not continue charging or using the eBike battery. Contact a specialised workshop.
660002	Remove the eBike battery from the eBike. Connect the eBike battery to a charger and wait at least 10 seconds, then reinstall the eBike battery in the eBike. Restart the eBike.
680007	The error codes indicated signal that the eBike battery is outside the permitted operating temperature range. The eBike battery charging is interrupted. As soon as the temperature returns within the permitted range, the charging process resumes automatically.
680009	
680012	
680014	
680016	
680017	

Critical errors

If a critical error occurs, follow the troubleshooting instructions provided in the table below.

Number	Fault resolution
6A0000	Connect all eBike components, including removable and optional components. Perform a software update. Restart the eBike. If the problem persists, contact a specialised workshop.
F10004	Connect all eBike components, including removable and optional components. Perform a software update. Ensure that all components are updated to the latest version. Restart the eBike. If the problem persists, contact a specialised workshop.
890000	– Acknowledge the error code. – Restart the eBike. If the problem persists: – Acknowledge the error code. – Perform a software update. – Restart the eBike. If the problem persists: – Contact a specialised workshop.

PRODUCTS CONVENTIONAL WARRANTY

Fantic Motor S.p.A. located in **via Tarantelli no. 7, 31030 Dosson di Casier-TV** (hereinafter referred to as **Fantic**), although it is not the final seller to the consumer, intends to support the final seller's responsibilities with its own warranty called **Fantic Conventional Warranty**, provided through its authorised technical assistance network under the conditions set out below. This warranty is in addition to and does not affect the rights of the purchaser under the laws of the territory in which the purchase took place (in the European territory in compliance with **EU Directive n 2019/771**).

Warranty content

> Fantic warrants the quality, the absence of defects and the proper operation of its products and undertakes to eliminate any design or manufacturing defects.
> This conventional warranty covers all the products in the official Fantic lists sold in the territory of the European Union and in countries where there is an official Fantic distributor of the warranted product (see **http://fantic.com**).
  › On e-bikes, some vehicle components are covered by the warranty provided directly by the component manufacturer (e.g. transmission, brakes, forks, shock absorbers). These components are not covered by Fantic's commercial warranty. Your Fantic dealer will be able to provide more information at the time of purchase.
> Commencement and Duration:
  › The warranty begins on the date of purchase.
  › The duration of the guarantee coincides with the months stipulated in the legal guarantee in the country in which the vehicle is sold.
  › Spare parts are guaranteed for 24 months from the date of invoice of Fantic to the first purchaser.
  › For vehicles equipped with an electric powertrain, the battery pack is warranted for the same period as the vehicle or up to 300 charge cycles, whichever occurs first. The batteries are designed to retain at least 60% of their nominal capacity at the end of the warranty period.
  › Replacement of parts under warranty extends the warranty period of the replaced part by 12 months.
  › However, repairs carried out under warranty shall not entitle the customer to:
    » extensions or renewals of the warranty on the entire product;
    » an alternate means of transportation for the period of the repair;
    » reimbursement of costs to bring the product to the service centre.
> Parts replaced under warranty will remain the property of Fantic.
> Fantic reserves the right to provide components under warranty that are different from the defective ones but with the same functional characteristics.

Validity

> The customer must be in possession of the proof of purchase: invoice or receipt showing the date of purchase and vehicle identification data (frame serial number or VIN).
> It is not possible to make use of the Fantic Conventional Warranty if more than 36 months have passed from the date of invoicing of the product by Fantic to the first purchaser. The end buyer will be responsible for checking with his seller whether the product can access the benefits of Fantic's conventional warranty.
> The warranty and the respective conditions may be transferred to any subsequent purchasers. The warranty period is in any case calculated from the date of the first purchase. The end buyer will be responsible for obtaining proof of the first purchase from the previous owner.
> The first start-up of the product must be carried out by a Fantic dealer.
> The conventional warranty expires under the following conditions:
  › Incorrect use of the product not in accordance with the instructions or use not in accordance with the purposes for which the product was designed.
  › Use in races or sporting competitions or for commercial purposes (e.g. rental).
  › Tampering or incorrect adjustments or repairs carried out on the product by personnel not authorised by Fantic.
  › Use of spare parts or accessories not original or not recommended by Fantic.
  › Regular maintenance has not been carried out by a Fantic Service Centre.
  › If product serial numbers (or VIN) have been removed or tampered with from the product.
> During the warranty period, the customer must report the non-conformity within 2 (two) months from the date of its discovery. The action shall be terminated if, after this period, the right is not exercised.
> To access the warranty, the user must be able to show the Authorised Service Centre the relevant tax documentation proving the date of purchase.

Exclusions

> The following are excluded from this warranty:
  › Routine maintenance.
  › Malfunctions due to normal wear and tear (tyres, inner tube, chain, brake discs, brake pads, rubber parts, etc.).
  › Rust, oxidation and degradation.
  › Damage due to the use of liquids containing impurities/debris capable of damaging its components.
  › Damage due to forced or prolonged interruption of operation.
  › Noise, vibrations or deterioration that do not affect the functionality and driveability of the vehicle.
  › Slight seepage of liquids from seals or oil seals that do not alter the required levels.
  › Non-conformity of the product with respect to specifications requested by the customer, accepted by the seller, but not foreseen by the normal use of the vehicle and/or not conforming to the purposes for which the product was designed.
  › Indirect costs incurred (breakdown assistance, replacement rental vehicle, etc.) and/or economic disadvantages suffered (loss of use, loss of earnings, loss of time, etc.) as a result of a product defect within the guarantee period.

Disputes

> The Court of Treviso shall have jurisdiction for any legal action. The pending legal action does not exempt the client from payment obligations.

FANTIC

Scan the QR code to download
the manual in other languages

www.fanticbikes.com

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