SUPPLEMENTING THE ORIGINAL

OPERATING INSTRUCTIONS EPAC ENGLISH



The smart system



General instructions

Congratulations! You have made a good decision by buying this quality bicycle made by KTM. We are convinced that your new bicycle will do more than just satisfy your expectations in regard to functionality, design and quality. All of our bikes are manufactured using premium materials and state-of-the-art technology and come equipped with only the best components. Your bicycle was assembled by the KTM dealer and then subjected to rigorous functional tests.

Explanation of symbols:



DANGER: Indicates a clear and imminent danger. The situation will lead to death or serious injury if it is not averted.



WARNING: Indicates a possible imminent danger. The situation may lead to death or serious injury if it is not averted.



NOTE/CAUTION: Indicates a possibly damaging situation. Your bicycle or its surroundings may be damaged if the situation is not averted.

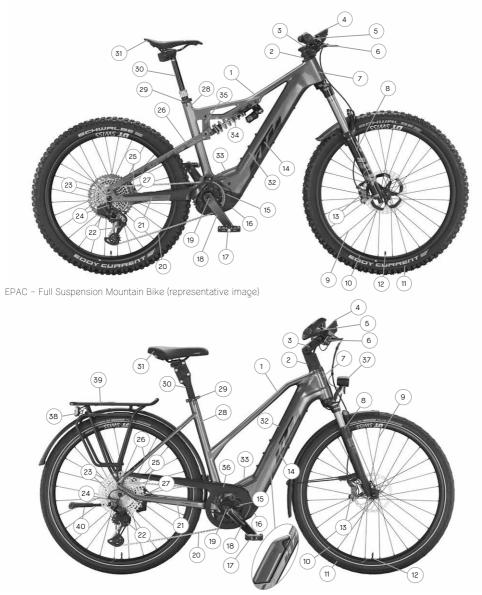
Make sure that your new EPAC (Electrically Power Assisted Cycle) was fully assembled, adjusted and handed over to you by KTM with all necessary descriptions.

This "Supplement to the Original Operating Instructions" adds to the "Original Operating Instructions" and contains information relating specifically to the EPAC. It is divided into the following sections:

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Detailed view - EPAC



EPAC - Trekking Onroad (representative image)

1	Top tube	8	Fork	15	Propulsion	22	Rear derailleur	29	Saddle clamp	36	Chain guard
2	Headset	9	Spokes	16	Drive unit cover	23	Sprocket	30	Seat post	37	Head light
3	Stem	10	Rim	17	Pedal	24	Derailleur hanger	31	Saddle	38	Tail light
4	On-board computer	11	Tyre	18	Cotterless right crank	25	Back brake	32	Battery	39	Racks
5	Handlebars	12	Valve	19	Bottom bracket	26	Seat stay	33	Battery lock	40	Stand
6	Brake lever	13	Front brake	20	Chain	27	Speed sensor	34	Shocks		
7	Head tube	14	Down tube	21	Chain stay	28	Seat post	35	Rocker		

EPAC drive system

All KTM bicycles that are fitted with an electric drive system are EPACs (Electrically Power Assisted Cycles) as defined in EN 15194. Their main distinctive features compared to a bicycle without propulsion assistance are the installation of an onboard computer, battery and drive unit. The following pages provide detailed descriptions of all components that are used in connection with the drive system. In the following, the motor is also described as a drive unit, the battery as a power pack or power tube, the display as an on-board computer and the charging device as a charger. The term e-bikes is also used for EPACs.



Exclusively original drive components and original batteries by the individual manufacturers are used in KTM EPACs. You should therefore use only original parts from the relevant manufacturer for retrofitting and replacement purposes. The use of third-party or unsuitable drive components and batteries can cause the battery to overheat, ignite or even explode. This would void all warranty and guarantee claims for the drive system.

EPAC drive components from different model years only show limited compatibility. Never try to install incompatible drive components by force. Doing so would place you and others at risk. It would void all warranty and guarantee claims relating to the drive system.

Under no circumstances may EPACs with fully-integrated down tube batteries be operated without the battery cover closed.

Legal bases

The mandatory conditions that must be adhered to are inferred from the following standards/regulations:

- \cdot DIN EN 15194 / Bicycles electrically power assisted cycles EPAC bicycles
- · Machinery Directive 2006/42/EC
- · DIN EN ISO 4210-2 / Cycles Safety requirements for bicycles Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles
- \cdot The national highway code in each country
- Maximum continuous rating must not exceed 250W. (Brief maximum power up to 600W)
- The drive unit may only provide assistance when the rider is pedalling.
- The maximum pedal assist speed is 25 km/h. Drive unit power must decrease as the speed increases.
- A push aid that automatically accelerates the EPAC must only work up to 6 km/h.
- Helmets are not mandatory. You should nonetheless wear a tested bicycle helmet in the interests of your own safety.
- A driving license is not required.
- Insurance is not required.
- You may use cycleways in the same way as you would with a normal bicycle.
- All KTM EPACs are designed for persons aged 14 and older. Child EPACs are an exception. All KTM EPACs are designed for persons aged 8 and older, provided they have received thorough instruction.

These regulations essentially apply throughout the European Union. But please take note that additional national laws may be in place to regulate the use of EPACs. Other conditions may apply in non-EU countries in Europe.

Safety instructions

- - The use of electronic components in a KTM EPAC may lead to additional hazards under certain circumstances. You must therefore read all safety instructions and keep them in a safe place for future reference. A failure to comply with the safety instructions can cause electric shocks, fire and/ or severe injuries.
 - Do not make any modifications or changes, neither to the hardware nor to the software. This can cause unpredictable, dangerous situations, accidents or falls that lead to injuries.
 - Always charge the battery in a dry place and never close to easily flammable or combustible materials.
 Also keep metallic/electrically conductive objects away from the battery of your EPAC, as they may cause a short circuit if they touch the contacts of the battery and therefore increase the fire risk considerably.

Take care in connection with pacemakers and medical devices.

This EPAC has been tested according to all valid and mandatory standards for EPACs. Nonetheless, this EPAC is not a special device that was manufactured according to medical requirements. In order to prevent possible malfunctions of your pacemaker or medical device, please consult your attending specialist or the manufacturer of the individual medical device before using the EPAC.

Emitted sound pressure level

The A-weighted emission sound pressure level measured at the driver's ears is less than 70 dB(A)

uning

Tuning means measures that are intended to increase performance or to exceed the speed limits of pedal assistance delivered by the individual drive system. This is achieved by changing the parameters or using retrofit tuning kits. Modifications of this kind are neither permitted nor recommended due to the strict legal conditions. These laws are in place to prevent dangerous situations. These modifications may also considerably increase wear on the drive system and components.

Do not ride the EPAC if the battery is dismantled

The battery is used to power the lighting, so driving with the battery removed will affect how the lighting works. Failure to do so is an administrative offence and can lead to fines, loss of insurance or accidents and falls involving injuries.

 Do not attempt to exceed the maximum pedal assist speed or modify the riding characteristics by manipulating the parameters.

Manipulation is an administrative offence and can lead to fines, loss of insurance or accidents and falls involving injuries. It would void all warranty and guarantee claims.

Particular care must be taken in the following situations due to the high torque of the drive system:

- Motor power may take effect abruptly when starting at a high support level. Avoid putting pressure on the pedals if
 you are not seated properly on the bicycle or if you push off with one leg when setting off.
- Press the brakes for your own safety when getting onto the EPAC; this will prevent it from starting to move unintentionally.
- Press the brakes for your own safety while the bicycle is stationary (waiting); this will prevent the EPAC from starting to move unintentionally.

Safety instructions for child EPACs

- Read all the safety instructions and familiarise your child with their contents. So keep these operating
 instructions in a safe place for future reference. A failure to comply with the safety instructions can
 cause electric shocks, fire and/or severe injuries.
- Electric shock is a mortal danger. Cables must not be bent, compressed or damaged on sharp edges.
- The battery may ignite or even explode if its protective circuit and protective mechanism become damaged. This may present a mortal danger. Always remove the battery if you are performing maintenance, repair or cleaning tasks.
- Never leave your child unsupervised when using and handling the EPAC.
 Familiarise your child with all functions before using the EPAC.
- Give your child detailed instruction on how to use the EPAC. Incorrect use cannot otherwise be ruled out.
- Child EPACs are only suitable for use on asphalted cycleways and roads.
 Use on the pavement is prohibited.
- Never allow your child to handle or clean the EPAC with tools or bare hands.
- Before each journey with your child, make sure that all components are adjusted correctly and that the screw connections and quick release are closed tight.

Refer to the chapter on "Information about the operating instructions", section "Before the first ride" and "Before every ride".

- Make certain that the frame size and operating elements are adjusted to the size of your child.
 An incorrect frame size may negatively affect the operability and controllability of the EPAC for instance, the rider may be unable to operate the brakes properly.
- Compared to a conventional EPAC, the following aspects were limited on the child EPAC to make sure that the safety
 of your child is guaranteed at all times.
 - The pedal assist speed was restricted to 20 km/h.
 - The push aid function was disabled.
 - The EPAC is initially in OFF mode when it is activated.
 - The maximum permissible weight (rider + luggage) of a child EPAC is 50 kg.

General instructions

Please note removing a control panel or battery does not protect the bicycle against theft. The drive components can be used to operate your EPAC, even without the assist functions. You must therefore use a safe and tested bicycle lock to attach your EPAC to a fixed object at all times (bicycle stand, etc.). Your KTM dealer will gladly assist you in selecting the right bicycle lock.

Always remove the battery and keep it in a dry and under no circumstances unusually cold place (room temperature) if you will do not intend to use the EPAC for a longer period.

Conformity

The complete KTM EU Declaration of Conformity is included in these instructions (refer to the *"KTM Declaration of Conformity"* chapter). The complete Bosch EU Declarations of Conformity are available at the following Internet address: www.bosch-ebike.com/conformity.

Cleaning and care

Never use a high-pressure cleaner or steam jet to clean your complete EPAC.

The powerful water jet might damage the electrical drive components and the fine bushing on the other components. Use a soft sponge or a soft brush to clean your EPAC. As a rule, work with only a little water and keep water away from the electrical contacts. After cleaning, check the plug connections for moisture and allow them to dry before putting the bicycle back into operation.



Careful cleaning of your EPAC significantly extends the service life of the individual components. Clean your EPAC regularly as described above.

Maintenance and repairs

- Only entrust your KTM dealer with repair and maintenance of the drive system.
 Unprofessional maintenance and repair may damage the EPAC.
- Always remove the battery before maintenance and repair.
 There is otherwise a considerable risk of injury, as the system could start up due to mechanical actions such as the application of load to the chain or pedals, inadvertently pressing the push aid and similar.
- Be careful not to fold or compress cables when performing maintenance or repair on the EPAC, and make sure that the cables are not damaged on sharp edges.

Damaged cables present a life-threatening risk of electric shock.

Only use original KTM components, as well as original drive components and batteries, for repairs and replacements. You are advised to use only original KTM components to replace parts of your EPAC, as they must fulfil certain characteristics. You should also use only original drive components and batteries by the individual manufacturers. The use of third-party or unsuitable components may lead to breakage or failure that can cause accidents or falls with injuries. The use of third-party or unsuitable drive components and batteries can cause the battery to overheat, ignite or even explode. This would void all warranty and guarantee claims relating to the drive system. Contact your KTM dealer to select the right replacement components.

Bring your EPAC for its first inspection after 200 km.

Screw connections may settle during the first kilometres of use. Ask your KTM dealer to check the spoke tension and all screw connections after the first 200 km. Refer to the chapter on *"Maintenance and care intervals"* in this regard.



Your EPAC will remain in a safe operational condition at all times if you adhere to the prescribed maintenance and care intervals. The service life of its components will also be extended.

 Be aware that the components of your EPAC are exposed to greater wear. All original spare parts can be purchased from your KTM dealer.

All components, especially the chain, sprocket and brake components, are subject to increased wear due to the additional exertion of force by the drive components and the greater weight of an EPAC. Shorter maintenance intervals must therefore be observed, compared to a conventional bicycle. Poorly maintained or worn components can lead to accidents or falls and then to injuries. Refer to the information in the chapter on "Maintenance and care intervals" in this regard.

 Please note that the drive components show slightly elevated resistance when pedalling and emit a quiet travelling noise due to their technical design.

Elevated freewheel resistance and a quiet travelling noise do not necessarily indicate a technical defect and are instead due to the technical design of the drive components. An increase in resistance or travelling noise during operation may indicate a lack of maintenance. Simply contact your KTM dealer.

• You are urgently advised to make a note of the key number.

The key number can be noted on the last page of the original operating instructions in the bicycle registration document and in the handover certificate. If you lose the key, you can use the key number to order a replacement from your KTM dealer.

Disposal

A used battery or defective electrical components must be disposed of properly.

Used batteries and electrical components, such as drive units, head lights, rear lamps and hub dynamos, must not be placed with household waste – please recycle them or return them to a KTM dealer. For detailed information on the disposal of EPAC components, refer to the chapter on the *"Bosch drive system"*.

Transport and loading

- Overloading may cause the EPAC components to deform or break.
 - The battery may ignite or even explode if its protective circuit and protective mechanism become damaged. This may present a mortal danger. For this reason, remove the battery when transporting it by car.
 - Attach a cap or another safety appliance to protect the battery contacts from unintentional short circuit.

Never take a passenger on your EPAC (exception: carrying a small child in a child seat).

Pay attention to the maximum permissible weight - refer to the chapter on "Intended use".

- Make sure that you remove the battery before transporting the EPAC by or in a car.
 Contact with liquids can cause heat, fire, explosion and smoke due to damage to the protective circuit and protective mechanism of the battery.
- Adhere to the applicable regulations on hazardous goods when transporting the battery.
 Transporting an EPAC battery may be legally classified as a transport of hazardous goods. Familiarise yourself with the applicable regulations on hazardous goods before transporting the EPAC battery. Any violation of these regulations is an administrative offence and can lead to fines.

Exclusively use suitable bike carriers (roof or tail racks) to transport your EPAC by car.

Not all bicycle bike are suitable for the safe transport of EPACs due to the position of the drive components, the special frame shape and the increased weight of EPACs. When transporting an EPAC, an unsuitable bike carrier may be damaged or break and therefore cause accidents. An unsuitable bike carrier may also damage the EPAC. After transporting the EPAC by car, check the plug connections for moisture and allow them to dry before putting the bicycle back into operation.

Be aware that driving characteristics may change significantly due to additional load.
 Pay attention to the maximum permissible weight for your EPAC during loading – refer to the chapter on "Intended use". Keep the load symmetrical at all times.

Only use child seats that are suitable for mounting on your EPAC. Driving characteristics may change significantly due to additional load - refer to the chapter on "Intended use". Your child should wear a tested child helmet.

Only use bicycle or child trailers that are suitable for attachment to your EPAC.

The position of the drive components and the special frame form mean that not all bicycle or child trailers are suitable for attachment to the frame. You and your child may suffer accidents with very severe injuries if you use an unsuitable bicycle or child trailer. Your KTM dealer will gladly assist you in selecting a suitable trailer. Your child should wear a tested child helmet at all times.



Range

The anticipated range is calculated based on a maximum range value determined by KTM under real conditions (perfect riding conditions) and depending on the load status, taking into account the current consumption. This calculations enables the specification of a theoretical value. This value varies to a greater or lesser extent, depending on driving conditions. For instance, the range will be significantly smaller when travelling in a hilly or mountainous region. Please take note, therefore, that this indication can be used merely as a rough estimate for the achievable residual range.

The anticipated maximum range depends on a wide variety of circumstances. These factors include the selected support level, rider's weight, terrain, wind conditions, tyre pressure and ambient temperature. All range values indicated here refer to ideal conditions.

Optimal/ideal conditions are: even/flat terrain without head wind, 20°C ambient temperature, particularly narrow, treadless tyres, driver weight under 70kg.

Factors that affect the range

- Route topography: The energy required for navigating hilly terrain rises disproportionately compared to riding on level 1. paths.
- 2. Selected support level: Always select the support level to suit your needs and with care.
- 3. Battery charge: Only a fully charged battery can guarantee the maximum range. So make sure that the battery is recharged before each use.
- 4. Weight and load: The more weight that the bicycle carries (rider and luggage), the shorter the range.
- 5. Air pressure in the tyres: The tyres offer significant potential. Insufficient pressure causes higher rolling resistance and therefore requires an extremely high energy input. The maximum permissible air pressure is printed directly on the sidewalls of the tyres. Tyres with rough, heavy tread require a great deal of energy. Switching to smooth, narrow tyres has a very favourable effect on the range.
- Starting/accelerating from a stationary position: Drive systems require considerably more energy when starting 6. from a stationary position than when travelling continuously. Maintaining a constant speed or changing it only gently can improve the range. Avoid exerting sudden, jerky pressure on the pedals.
 - 7. External influences/weather: Managing headwind requires an enormous expenditure of energy. Heat and cold can also drain the battery quickly.
 - 8. Applied force: The range will be very small if you rely exclusively on the drive system for power.
 - 9. Shifting gears: Use the gears actively, as you would with a normal bicycle. For instance, shift to a lower gear early enough when you are travelling uphill. The drive unit can only operate effectively and efficiently at an ideal cadence of 75 revolutions per minute. Slow pedalling leads to sudden assistance, causes the drive unit to overheat and will drain the battery very quickly.
 - 10. Charging external software: Charging external hardware such as smartphones or MP3 players using the charger port on the display can shorten the range accordingly.

KTM Declaration of Conformity

EC Declaration of Conformity (No. V1/2022)



BIKE INDUSTRIES

Hereby we declare, that the following KTM products match in their design and construction to the essential health and safety requirements of the Machinery Directive 2006/42/EC. Every change of the product, that has not been confirmed by us, voids this declaration.

Manufacturer:

KTM Fahrrad GmbH / Harlochnerstraße 13 / 5230 Mattighofen / Austria

022300 BG 022301 BG 022302 BG	MACINA PROWLER EXONIC	System Bosch	year 2022			1					
022301 BG				2021/2022	DIN EN 15194	022367 BG	MACINA TOUR CX 510	Bosch	2022	2021/2022	DIN EN 151
	MACINA PROWLER PRESTIGE	Bosch	2022	2021/2022	DIN EN 15194	022368 BG	MACINA TOUR P610	Bosch	2022	2021/2022	DIN EN 151
	MACINA PROWLER MASTER	Bosch	2022	2021/2022	DIN EN 15194	022369 BG	MACINA TOUR P510	Bosch	2022	2021/2022	DIN EN 151
22303 BG	MACINA PROWLER PRO	Bosch	2022	2021/2022	DIN EN 15194	022370 BG	MACINA FUN A510	Bosch	2022	2021/2022	DIN EN 151
22304 BG	MACINA KAPOHO PRESTIGE	Bosch	2022	2021/2022	DIN EN 15194	022372 BG	MACINA AERA 771 LFC ABS	Bosch	2022	2021/2022	DIN EN 151
22305 BG	MACINA KAPOHO MASTER	Bosch	2022	2021/2022	DIN EN 15194	022373 BG	MACINA SPRINT	Bosch	2022	2021/2022	DIN EN 151
22305 BG	MACINA KAPOHO ELITE	Bosch	2022	2021/2022	DIN EN 15194	022375 BG	MACINA GRAN 710	Bosch	2022	2021/2022	DIN EN 151
22307 BG	MACINA KAPOHO PRO	Bosch	2022	2021/2022	DIN EN 15194	022376 BG	MACINA GRAN 620	Bosch	2022	2021/2022	DIN EN 151
022307 BG	MACINA KAPOHO 7971	Bosch	2022	2021/2022	DIN EN 15194	022377 BG	MACINA GRAN P610	Bosch	2022	2021/2022	DIN EN 151
22308 BG	MACINA KAPOHO 7972	Bosch	2022	2021/2022	DIN EN 15194	022378 BG	MACINA GRAN P510 (US)	Bosch	2022	2021/2022	DIN EN 151
	MACINA KAPOHO 7972 MACINA KAPOHO 7973	Bosch	2022	2021/2022	DIN EN 15194	022380 BG	MACINA CITY 710 belt	Bosch	2022	2021/2022	DIN EN 151
022310 BG	MACINA KAPOHO 7975 MACINA KAPOHO 6971	Bosch	2022	2021/2022	DIN EN 15194	022381 BG	MACINA CITY 610 XL	Bosch	2022	2021/2022	DIN EN 151
		Bosch	2022	2021/2022	DIN EN 15194	022382 BG	MACINA CITY 610 belt	Bosch	2022	2021/2022	DIN EN 15
22312 BG	MACINA LYCAN 771	00000		2021/2022	DIN EN 15194	022383 BG	MACINA CITY P610 RT	Bosch	2022	2021/2022	DIN EN 15
022313 BG	MACINA LYCAN 772	Bosch Bosch	2022		DIN EN 15194	022383 BG	MACINA CITY P610	Bosch	2022	2021/2022	DIN EN 15
22314 BG	MACINA LYCAN 671		2022	2021/2022	DIN EN 15194	022384 BG	MACINA CITY A510 RT	Bosch	2022	2021/2022	DIN EN 151
022315 BG	MACINA CHACANA 791	Bosch	2022	2021/2022			MACINA CITY A510 KT	Bosch	2022	2021/2022	DIN EN 15
022316 BG	MACINA CHACANA LFC	Bosch	2022	2021/2022	DIN EN 15194	022386 BG		Bosch	2022	2021/2022	DIN EN 15
022317 BG	MACINA CHACANA 792	Bosch	2022	2021/2022	DIN EN 15194	022388 BG	MACINA CENTRAL 5 RT		2022	2021/2022	DIN EN 15
22318 BG	MACINA CHACANA 691	Bosch	2022	2021/2022	DIN EN 15194	022389 BG	MACINA CENTRAL 5	Bosch	2022	2021/2022	DIN EN 15
22319 BG	MACINA CHACANA 591	Bosch	2022	2021/2022	DIN EN 15194	022395 BG	MACINA MULTI	Bosch	2022	2021/2022	DIN EN 15
022320 BG	MACINA MINI ME 561	Bosch	2022	2021/2022	DIN EN 15194	022396 BG	MACINA MULTI URBAN	Bosch			DIN EN 15
022321 BG	MACINA MINI ME 441	Bosch	2022	2021/2022	DIN EN 15194	022398 BG	MACINA FOLD 20"	Bosch	2022	2021/2022	
022322 BG	MACINA TEAM 791	Bosch	2022	2021/2022	DIN EN 15194	022420 BG	ZEG POWER SPORT 11 PLUS	Bosch	2022	2021/2022	DIN EN 15
022323 BG	MACINA TEAM 792	Bosch	2022	2021/2022	DIN EN 15194	022421 BG	ZEG POWER SPORT 10	Bosch	2022	2021/2022	DIN EN 15
022324 BG	MACINA TEAM 772	Bosch	2022	2021/2022	DIN EN 15194	022423 BG	ZEG CENTO 10 PLUS	Bosch	2022	2021/2022	DIN EN 15
022325 BG	MACINA TEAM 793	Bosch	2022	2021/2022	DIN EN 15194	022424 BG	ZEG CENTO 10	Bosch	2022	2021/2022	DIN EN 15
022326 BG	MACINA TEAM 773	Bosch	2022	2021/2022	DIN EN 15194	022426 BG	ZEG CENTO 5 RT	Bosch	2022	2021/2022	DIN EN 15
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022328 BG	MACINA TEAM 692	Bosch	2022	2021/2022	DIN EN 15194	022520 BG	MACINA LYCAN LTD (ISA)	Bosch	2022	2021/2022	DIN EN 15
022329 BG	MACINA TEAM 672	Bosch	2022	2021/2022	DIN EN 15194	022521 BG	MACINA CHACANA LTD (ISA)	Bosch	2022	2021/2022	DIN EN 15
022330 BG	MACINA TEAM 693	Bosch	2022	2021/2022	DIN EN 15194	022522 BG	MACINA ALP LTD (ISA)	Bosch	2022	2021/2022	DIN EN 15
022331 BG	MACINA TEAM 673	Bosch	2022	2021/2022	DIN EN 15194	022523 BG	MACINA ALP 29.12 (ISA)	Bosch	2022	2021/2022	DIN EN 15
022334 BG	MACINA RACE 591	Bosch	2022	2021/2022	DIN EN 15194	022525 BG	MACINA PRO CROSS 750 LTD	Bosch	2022	2021/2022	DIN EN 15
022335 BG	MACINA RACE 571	Bosch	2022	2021/2022	DIN EN 15194	022526 BG	MACINA PRO CROSS 625	Bosch	2022	2021/2022	DIN EN 15
022335 BG	MACINA RACE 592	Bosch	2022	2021/2022	DIN EN 15194	022527 BG	MACINA TOURING 750 LTD	Bosch	2022	2021/2022	DIN EN 15
022338 BG	MACINA RACE 572	Bosch	2022	2021/2022	DIN EN 15194	022528 BG	MACINA TOURING 625 LTD	Bosch	2022	2021/2022	DIN EN 15
022337 BG	MACINA RIDE 591	Bosch	2022	2021/2022	DIN EN 15194	022529 BG	MACINA TOURING 500 LTD	Bosch	2022	2021/2022	DIN EN 15
	MACINA RIDE 551 MACINA RIDE 571	Bosch	2022	2021/2022	DIN EN 15194	022560 BG	ELOPEAK M29.21 (H)	Bosch	2022	2021/2022	DIN EN 15
022339 BG			2022	2021/2022	DIN EN 15194	022561 BG	ELOPEAK M27.21 (H)	Bosch	2022	2021/2022	DIN EN 15
022340 BG	MACINA RIDE 491	Bosch	2022	2021/2022	DIN EN 15194	022562 BG	ELOCROSS 9 (H)	Bosch	2022	2021/2022	DIN EN 15
022341 BG	MACINA RIDE 591 LTD	Bosch	2022	2021/2022	DIN EN 15194	022563 BG	ELOTREK 10 (H)	Bosch	2022	2021/2022	DIN EN 15
022342 BG	MACINA TEAM 792 LFC	Bosch					ELOCITY 10 (H)	Bosch	2022	2021/2022	DIN EN 15
022343 BG	MACINA TEAM 691 LFC	Bosch	2022	2021/2022	DIN EN 15194	022564 BG		Bosch	2022	2021/2022	DIN EN 15
022344 BG	MACINA AERA 771 LFC	Bosch	2022	2021/2022	DIN EN 15194	022565 BG	ELOTREK 9 (H)	Bosch	2022	2021/2022	DIN EN 15
022345 BG	MACINA AERA 772 LFC	Bosch	2022	2021/2022	DIN EN 15194	022570 BG	MACINA STYLE XT 750 LTD		2022	2021/2022	DIN EN 15
022346 BG	MACINA AERA 671 LFC	Bosch	2022	2021/2022	DIN EN 15194	022571 BG	MACINA TOUR CX 625 LTD	Bosch Bosch		2021/2022	DIN EN 15
022347 BG	MACINA AERA 671	Bosch	2022	2021/2022	DIN EN 15194	022575 BG	MACINA PREMIUM (ERFA)		2022		DIN EN 15
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022349 BG	MACINA CROSS 710	Bosch	2022	2021/2022	DIN EN 15194	022587 BG	MACINA SPORT PTS PRO (LB)	Bosch	2022	2021/2022	DIN EN 15
022350 BG	MACINA CROSS LFC	Bosch	2022	2021/2022	DIN EN 15194	022588 BG	MACINA SPORT PRO (LB)	Bosch	2022	2021/2022	DIN EN 15
022351 BG	MACINA CROSS 720	Bosch	202.2	2021/2022	DIN EN 15194	022589 BG	MACINA STYLE PRO (LB)	Bosch	2022	2021/2022	DIN EN 15
022352 BG	MACINA CROSS 510	Bosch	2022	2021/2022	DIN EN 15194	022590 BG	MACINA GRAN PRO (LB)	Bosch	2022	2021/2022	DIN EN 15
022353 BG	MACINA CROSS P510	Bosch	2022	2021/2022	DIN EN 15194	022610 BG	MACINA LYCAN PRO 750 (S)	Bosch	2022	2021/2022	DIN EN 1
022354 BG	MACINA CROSS A410 (US)	Bosch	2022	2021/2022	DIN EN 15194	022611 BG	MACINA CHACANA PRO 750	Bosch	2022	2021/2022	DIN EN 1
022355 BG	MACINA SPORT 710	Bosch	2022	2021/2022	DIN EN 15194	022612 BG	MACINA eMOUNTAIN 29	Bosch	2022	2021/2022	DIN EN 1
022356 BG	MACINA SPORT 720	Bosch	2022	2021/2022	DIN EN 15194	022613 BG	MACINA eMOUNTAIN 27	Bosch	2022	2021/2022	DIN EN 1
022357 BG	MACINA SPORT 630	Bosch	2022	2021/2022	DIN EN 15194	022615 BG	MACINA eCROSS PRO 750 (S)	Bosch	2022	2021/2022	DIN EN 15
022358 BG	MACINA SPORT 510	Bosch	2022	2021/2022	DIN EN 15194	022616 BG	MACINA eTOUR PRO 750 (S)	Bosch	2022	2021/2022	DIN EN 15
022358 BG	MACINA CROSS P510 STREET	Bosch	2022	2021/2022	DIN EN 15194	022645 BG	MACINA SPORT 630 ÖBB (W)	Bosch	2022	2021/2022	DIN EN 15
022359 BG 022361 BG	MACINA CROSS PS10 STREET MACINA STYLE 710	Bosch	2022	2021/2022	DIN EN 15194	022680 BG	MACINA ULTIMATE XTS (St)	Bosch	2022	2021/2022	DIN EN 15
		Bosch	2022	2021/2022	DIN EN 15194	022681 BG	MACINA ULTIMATE PRO (St)	Bosch	2022	2021/2022	DIN EN 15
	MACINA STYLE 720	Bosch	2022	2021/2022	DIN EN 15194	022681 BG	MACINA TOUR LTD (St)	Bosch	2022	2021/2022	DIN EN 15
					FUIA CIA TOTA4	022002 80	macana roon cro (ot)	- boaten		LOLAINOLL	
022363 BG	MACINA STYLE 730				DIN CN 15101	022595.00	MAACINIA CROSS STREET /CAL	Bosch	2022	2021/2022	DIN EN 15
022362 BG 022363 BG 022364 BG 022365 BG	MACINA STYLE 730 MACINA STYLE XL MACINA TOUR CX 610 NYON	Bosch Bosch	2022	2021/2022 2021/2022	DIN EN 15194 DIN EN 15194	022685 BG 022686 BG	MACINA CROSS STREET (St) MACINA CITY P510 RT (St)	Bosch	2022	2021/2022 2021/2022	DIN EN 15 DIN EN 15

Hereby we declare the correspondence with the following valid product guidelines/regulations:

EMC Directive 2014/30/EG from February 26'th 2014 Gerhard Leingartner / Product Management

DIN EN 15194:2017-12 / Cycles - Electrically power assisted cycles - EPAC Bicycles

Author of the technical documentation: Place / Date:

Signature:

Title of the applied standards:

Johanna Urkauf / General Management

Dokumentname: 2021_07_19_Konformitätserklärung_KTM_Bosch_MY2022_ENGLISCH

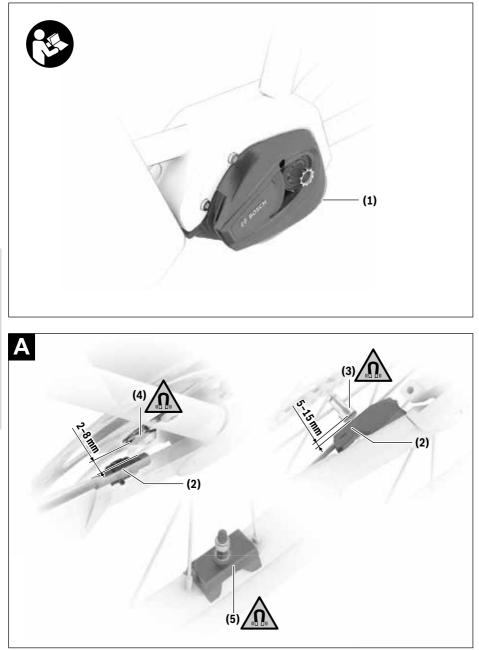
Mattighofen, 19.07.2021

Stefan Limbrunner / General Management

Gerhard Leingartner / Product Management

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Drive Unit



Safety instructions



Read all the safety information and in-

structions. Failure to observe the safety information and follow instructions may result in electric shock, fire and/or serious injury.

Save all safety warnings and instructions for future reference.

The term **battery** is used in these instructions to mean all original Bosch eBike rechargeable battery packs.

- Do not attempt to change and especially increase the power of your drive or the maximum speed that it supports. Doing this may put yourself and others at risk, and you may also breach statutory regulations.
- Do not make any modifications to your eBike system or fit any other products that might increase the performance of your eBike system. Doing so will generally reduce the service life of the system and risks damaging the drive unit and the bike. You also run the risk of losing the guarantee and warranty claims on the bicycle you have purchased. By handling the system improperly you are also endangering your safety and that of other road users, thus running the risk of high personal liability costs and possibly even criminal prosecution in the event of accidents that can be attributed to manipulation of the bicycle.
- Do not open the drive unit yourself. The drive unit must only be repaired by qualified personnel using only original spare parts. This will ensure that the safety of the drive unit is maintained. Unauthorised opening of the drive unit will render warranty claims null and void.
- All components fitted to the drive unit and all other components of the eBike drive (e.g. chainring, chainring receptacle, pedals) must only be replaced with identical components or components that have been specifically approved by the manufacturer for your eBike. This will protect the drive unit from overloading and becoming damaged.
- Remove the battery from the eBike before beginning work (e.g. inspection, repair, assembly, maintenance, work on the chain, etc.) on the eBike, transporting it with a car or aeroplane, or storing it. Unintentional activation of the eBike system poses a risk of injury.



On sections of the drive, temperatures > 60 °C may occur in extreme conditions, e.g. when carrying consistently high loads at low speed when riding up hills or transporting loads.

After a ride, do not allow your unprotected hands or legs to come into contact with the housing of the drive unit. Under extreme conditions, such as continuously high torques at low travel speeds, or when riding up hills or carrying loads, the housing may reach a very high temperature.

. The temperature that the drive unit housing may reach is influenced by the following factors:

Ambient temperature

- Ride profile (route/gradient)
- Ride duration
- Assistance modes
- User behaviour (personal effort)
- Total weight (rider, eBike, luggage)
- Motor cover on the drive unit
- Heat dissipation properties of the bicycle frame
- Type of drive unit and type of gear-shifting
- Use only original Bosch batteries that the manufacturer has approved for your eBike. Using other batteries can lead to injuries and pose a fire hazard. Bosch accepts no liability or warranty claims if other batteries are used.



Keep the magnet away from implants and other medical devices, e.g. pacemakers or insulin pumps. The magnet generates a field that can impair the function of implants and medical devices.

- Keep the magnet away from magnetic data carriers and magnetically sensitive devices. The effect of the magnets may lead to irreversible data losses.
- Observe all national regulations which set out the approved use of eBikes.
- Read and observe the safety warnings and directions contained in all the eBike system operating instructions and in the operating instructions of your eBike.

Privacy notice

When you connect the eBike to the **Bosch Dia**gnosticTool **3**, data about Bosch drive unit (e.g. energy consumption, temperature, etc.) is transferred to Bosch eBike Systems (Robert Bosch GmbH) for the purposes of product improvement. You can find more information about this on the Bosch eBike website at <u>www.bosch-ebike.com</u>.

Product description and specifications

Intended use

The drive unit is intended exclusively for driving your eBike and must not be used for any other purpose.

In addition to the functions shown here, changes to software relating to troubleshooting and functional modifications may be introduced at any time.

Product features

Individual illustrations in these operating instructions may differ slightly from the actual conditions depending on the equipment of your eBike.

The numbering of the components shown refers to the illustrations on the graphics pages at the beginning of the manual.

- (1) Drive unit
- (2) Speed sensor a)
- (3) Spoke magnet
- (4) CenterLock magnet^{b)}
- (5) Rim magnet
- a) different sensor type and installation position is possible
- b) different installation position is possible

Technical data

Drive unit			Orive Unit
	Perform	nanc	e Line CX
Product code		I	BDU3740
			BDU3741
Continuous rated power	W		250
Torque at drive, max.	Nm		85
Rated voltage	V=		36
Operating temperature	°C		-5 to +40
Storage temperature	°C	+	10 to +40
Protection rating			IP 54
Weight, approx.	kg		3
The Bosch eBike system uses FreeRTOS (see <u>http://www.freertos.org</u>).			
Bicycle lights ^{A)}			
Voltage approx. ^{B)}	,	V=	12
Maximum power			
 Front light 		W	17.4
– Tail light		W	0.6

 A) Depends on legal regulations, not possible in all country-specific models via the eBike battery

B) When changing the bulbs, ensure that they are compatible with the Bosch eBike system (ask your bicycle dealer) and are suitable for the specified voltage. Bulbs must only be replaced with bulbs of the same voltage.

Inserting a bulb incorrectly can cause it to blow.

Assembly

Checking the speed sensor (see figure A)

Speedsensor (slim)

The speed sensor (2) and its CenterLock magnet (4) or spoke magnet (3) are mounted ex works in such a manner that the magnet, after a turn of the wheel, moves past the speed sensor with a clearance of at least 2 mm, yet no more than 15 mm.

If any structural changes are made, the correct distance between the magnet and the sensor must be complied with (see figure **A**).

Note: Make sure you do not damage the sensor or the sensor holder when fitting or removing the rear wheel.

When changing a wheel, make sure that the sensor cable is routed so that it is not under tension and has no kinks.

The CenterLock magnet (4) can only be removed and reinserted up to five times.

Rim magnet

When installing a rim magnet, no sensor is required to detect a wheel turn. The drive unit itself detects when the magnet is close to it and calculates the speed and any other data required from the frequency of the emergence of the magnet field.

Since the drive unit is sensitive to magnetic fields, avoid other magnetic fields in the vicinity of the drive unit (e.g. magnetic clipless pedals, magnetic cadence sensors, etc.) in order to prevent disruption to the drive unit.

Operation

A control unit is required for the starting operation of the eBike system. Observe the starting operation for the eBike system and drive unit control in the control unit operating instructions.

Notes on cycling with the eBike system

When does the eBike drive work?

The eBike drive assists your cycling only when you are pedalling. If you do not pedal, the assistance will not work. The motor output always depends on the pedalling force you apply.

If you apply less force, you will receive less assistance than if you apply a lot of force. This applies irrespective of the assistance level.

The eBike drive automatically switches off at speeds over **25 km/h**. When the speed falls below **25 km/h**, the drive automatically becomes available again.

An exception applies to the push assistance function, in which the eBike can be pushed at low speed without pedalling. The pedals may rotate when the push assistance is in use.

You can also use the eBike as a normal bicycle without assistance at any time, either by switching off the eBike system or by setting the assistance level to **OFF**. The same applies when the battery is drained.

Interaction between the eBike system and gear-shifting

The gear-shifting should be used with an eBike drive in the same way as with a normal bicycle (observe the operating instructions of your eBike on this point).

Irrespective of the type of gear-shifting, it is advisable to briefly stop pedalling when changing gear. This will facilitate the gear change and reduce wear on the powertrain.

By selecting the correct gear, you can increase your speed and range while applying the same amount of force.

Gaining initial experience

We recommend that you gain initial experience with the eBike away from busy roads.

Test the various assistance levels, beginning with the lowest level. As soon as you feel confident, you can ride your eBike in traffic like any other bicycle.

Test the range of your eBike in different conditions before planning longer and more demanding trips.

Influences on range

The range is affected by a number of factors, such as:

- Assistance level
- Speed
- Gear shifting behaviour
- Tyre type and tyre pressure
- Age and condition of the battery
- Route profile (gradients) and conditions (road surface)
- Headwind and ambient temperature
- Weight of eBike, rider and luggage

For this reason, it is not possible to predict the range accurately before and during a trip. However, as a general rule:

- With the same assistance level on the eBike drive: The less energy you need to exert in order to reach a certain speed (e.g. by changing gears optimally), the less energy the eBike drive will consume and the higher the range per battery charge will be.
- The higher the selected assistance level under otherwise constant conditions, the smaller the range will be.

Taking care of your eBike

Please observe the operating and storage temperatures of the eBike components. Protect the drive unit, on-board computer and battery against extreme temperatures (e.g. from intense sunlight without adequate ventilation). Extreme temperatures can cause the components (especially the battery) to become damaged.

Have your eBike system checked by an expert at least once a year (including mechanical parts, up-to-dateness of system software).

Maintenance and servicing

Maintenance and cleaning

When changing the bulbs, ensure that they are compatible with the Bosch eBike system (ask your bicycle dealer) and are suitable for the specified voltage. Bulbs must only be replaced with bulbs of the same voltage.

Do not immerse any components, including the drive unit, in water or clean them with pressurised water.

Have your eBike system checked by an expert at least once a year (including mechanical parts, up-to-dateness of system software).

Please have your eBike serviced and repaired by an authorised bicycle dealer.

After-sales service and advice on using products

If you have any questions about the eBike system and its components, contact an authorised bicycle dealer.

For contact details of authorised bike dealerships, please visit <u>www.bosch-ebike.com</u>.

Disposal



The drive unit, on-board computer incl. operating unit, battery, speed sensor, accessories and packaging should be disposed of in an environmentally correct manner.

Do not dispose of eBikes and their components with household waste.

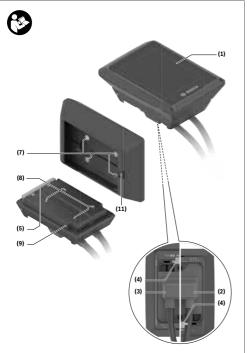


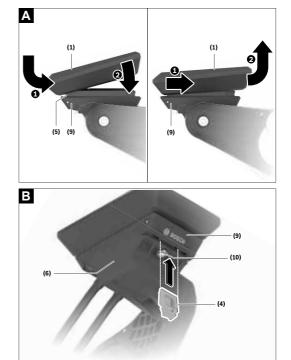
In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/drained batteries must be collected separately and recycled in an environmentally friendly manner.

Please return Bosch eBike components that are no longer usable to an authorised bicycle dealer.

Subject to change without notice.

Kiox 300 Bordcomputer





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Safety instructions



Read all the safety information and in-

structions. Failure to observe the safety information and follow instructions may result in electric shock, fire and/or serious injury.

Save all safety warnings and instructions for future reference.

The term **battery** is used in these instructions to mean all original Bosch eBike rechargeable battery packs.

- Do not attempt to secure the display or operating unit while riding.
- Do not allow yourself to be distracted by the on-board computer's display. If you do not focus exclusively on the traffic, you risk being involved in an accident. If you want to make entries in your on-board computer other than switching the assistance level, stop and enter the appropriate data.
- Set the display brightness so that you can adequately see important information such as speed and warning symbols. Incorrectly set display brightness may lead to dangerous situations.
- Do not open the on-board computer. Opening the onboard computer may damage it beyond repair and void any warranty claims.
- Do not use the on-board computer as a handle. Lifting the eBike up by the on-board computer can cause irreparable damage to the on-board computer.
- Do not stand your bicycle upside down on its saddle and handlebars if the on-board computer or its holder protrude from the handlebars. This may irreparably damage the on-board computer or the holder. Also remove the on-board computer before placing the bicycle on a wall mount to ensure that the on-board computer does not fall off or become damaged.

Privacy notice

If the on-board computer is sent to Bosch Service because it requires servicing, the data stored on the on-board computer may be transmitted to Bosch.

Product description and specifications

Intended use

The **Kiox 300** on-board computer is designed to display cycling data.

To access the full functionality of the **Kiox 300** on-board computer, you will need a compatible smartphone installed with the **eBike Flow** app (available from the Apple App Store or the Google Play Store).

Product features

The numbering of the components shown refers to the illustrations on the graphics pages at the beginning of the manual.

- (1) Display
- (2) Front cable outlet
- (3) Rear cable outlet
- (4) Removal blocker
- (5) Snap-in hook
- (6) Adapter tray
- (7) Display contacts
- (8) Holder contacts
- (9) Display mount
- (10) Display mount fastening screw
- (11) Bridge for retaining strap

Technical data

On-board computer		Kiox 300		
Product code		BHU3600		
Operating temperature A)	°C	-5 to +40		
Storage temperature	°C	+10 to +40		
Protection rating		IP54		
Weight, approx.	g	32		
A) Tomporatures outside of this range may cause faults in the dis				

 A) Temperatures outside of this range may cause faults in the display.

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Assembly

Inserting and Removing the Display (see figure A)

To fit the display (1), attach the display (1) to the front edge of the display mount (9) in the direction of travel, on the snap-in hook (5) **0** and press the rear side of the display (1) on the display mount (9) **0**.

To **remove** the display **(1)**, pull the display **(1)** towards you **①** until you are able to lift off the display **(1) ②**.

A retaining strap can be secured to the bridge (11).

Inserting the Removal Blocker (see figure B)

Insert the removal blocker (4) into the adapter tray (6) from below until you hear the removal blocker (4) click into place.

From this point onwards, you can no longer lift off the display (1) from the display fixture (9) without removing the display mount (9) from the adapter tray (6) by loosening the two fastening screws (10).

Note: The removal blocker (4) is not an anti-theft device.

Operation

The displays are operated and the indicators are controlled via a control unit.

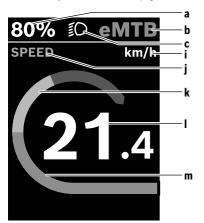
The meaning of the buttons on the operating unit for the display indicators can be found in the following overview. Depending on how long it is pressed for, the select button has two functions.



- <Scroll to the left
- >Scroll to the right
- Scroll up
- Scroll down
- Change to the second page level (press briefly)
- ۲ Open page-related options (e.g. <Reset trip>) Open the settings menu (Press and hold > 1 s)

Start page

If you did not select another page before the last time you switched off, you will be shown this page.



- а Battery charge
- h Assistance level
- **Bicycle lights** С
- i Unit of speed indicator
- i Indicator name
- k Your performance

- I Speed
- Motor output m

The **a** ... **c** indicators form the status bar and are shown on every page.

You can use the subtron to change from this page to the status page or press the button \geq to access additional pages. Your statistical data, the battery range and the average values are displayed on these pages.

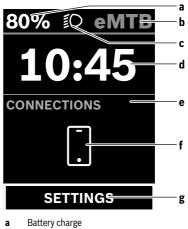
From each of these pages, you can access the second level of data by pressing the \bigcirc button.

If the user is on a different page to the start page when they switch off, the most recently displayed page will appear again when the eBike is switched on.

Pressing and holding the
select button enables you to reset the statistical data for your journey or excursion (not on the **<SETTINGS>** page).

Status page

From the start page, you can access the status page by pressing the \leq button.



- Assistance level b
- Bicycle lights c
- d Time
- Connection indicator ρ
- f Smartphone connection
- Settings Menu g

You can access the settings menu from this page by pressing the button.

Note: The settings menu cannot be called up while riding.

The **<SETTINGS>** settings menu contains the following menu items:

- <My eBike>
 - You can find the following menu items here.
 - <Range reset>

The value for the range can be reset here.

<Auto trip reset>

The settings for automatic reset can be adjusted here.

<Wheel circumf.>

The value of the wheel circumference can be adjusted or reset to the standard setting here.

<Components>

The components used with their version numbers are displayed here.

- <System>

You can find the following menu items here.

<Language>

You can select your preferred system language here. • **<Units>**

You can choose between metric or imperial measurements here.

• <Time>

You can set the time here.

• <Time format>

You can select one of the two time formats here.

<Brightness>

You can set the display brightness here.

<Settings reset>

You can reset all of the system settings to the default values here.

 Under the <Information> menu item, you will find the contact details (<Contact>) and certificates (<Certificates>).

You can leave the settings menu by pressing the \checkmark button. Press the \supseteq button to access the start page.

Maintenance and servicing

Maintenance and cleaning

Do not clean any of the components with pressurised water. Keep the screen of your on-board computer clean. Dirt can cause faulty brightness detection.

Clean your on-board computer using a soft cloth dampened only with water. Do not use cleaning products of any kind. Have your eBike system checked by an expert at least once a year (including mechanical parts, up-to-dateness of system software).

In addition, the bicycle dealer may base the service date on the distance travelled and/or on a period of time. In this case, the on-board computer displays a message telling you when the service date is due each time it is switched on.

Please have your eBike serviced and repaired by an authorised bicycle dealer.

 Have all repairs performed only by an authorised bike dealer.

After-sales service and advice on using products

If you have any questions about the eBike system and its components, contact an authorised bicycle dealer. For contact details of authorised bike dealerships, please visit www.bosch-ebike.com.

Transport

 If you transport your eBike attached to the outside of your car, e.g. on a bike rack, remove the on-board computer and the eBike battery to avoid damaging them.

Disposal



The drive unit, on-board computer incl. operating unit, battery, speed sensor, accessories and packaging should be disposed of in an environmentally correct manner.

Do not dispose of eBikes and their components with household waste.

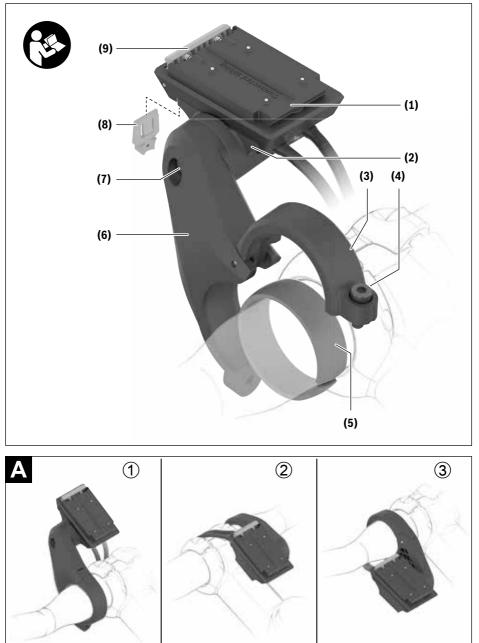


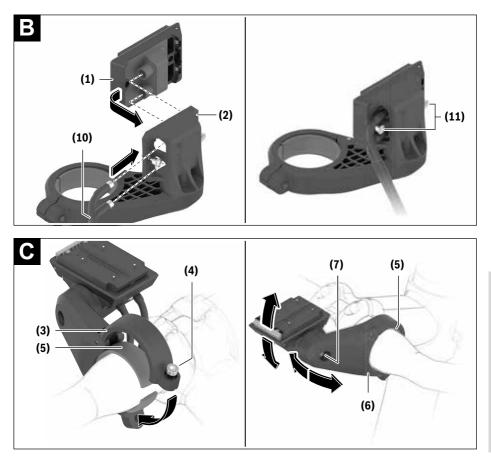
In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/drained batteries must be collected separately and recycled in an environmentally friendly manner.

Please return Bosch eBike components that are no longer usable to an authorised bicycle dealer.

Subject to change without notice.

Display Mount





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Safety instructions



Read all the safety information and in-

structions. Failure to observe the safety information and follow instructions may result in electric shock, fire and/or serious injury.

Save all safety warnings and instructions for future reference.

- The contact surfaces of the display holder may become very hot (> 60 °C). Allow the contact surfaces to adjust to the ambient temperature before you touch them. This is particularly important when using a SmartphoneGrip.
- ► Keep swallowable small parts away from small children. There is a risk of serious injury.
- ► Never short-circuit the pins. The display holder may be irreparably damaged and must then be replaced.
- Ensure that the contacts are free of dirt. By doing this, you prevent malfunctions or damage.
- ► After a fall, check the display holder for sharp edges. Replace it if required.
- Do not stand your bicycle upside down on its saddle and handlebars if the on-board computer or its holder protrude from the handlebars. This may irreparably damage the on-board computer or the holder. Also remove the on-board computer before placing the bicycle on a wall mount to ensure that the on-board computer does not fall off or become damaged.
- Observe all national regulations which set out the approved use of eBikes.
- Read and observe the safety warnings and directions contained in all the eBike system operating instructions and in the operating instructions of your eBike.

Product description and specifications

Intended use

The display holder is intended to establish the mechanical and electrical connection to a display or on-board computer. Only original Bosch eBike components can be connected to the display holder.

A display holder is not required for an eBike system to function.

Product features

The numbering of the components shown refers to the illustrations on the graphics pages at the beginning of the manual.

- (1) Display mount
- (2) Adapter tray
- (3) Clamp for holder
- (4) Clamp screw

- (5) Round rubber spacer
- (6) 1-arm socket
- (7) Screw for adjusting tilt
- (8) Removal blocker
- (9) Snap-in hook
- (10) Connection cables

(11) Fastening screws for display mount

The display mount **(1)** can also be embedded in the bicycle design.

Technical data

Display holder						
Product code		BDS3210				
		BDS3250				
		BDS3620				
		BDS3630				
Output voltage	V	4.75 to 5.4				
Output current, max.	A	1.5				
Operating temperature	°C	-5 to +40				
Storage temperature	°C	+10 to +40				
Protection rating		IP54				

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Fitting

Installation positions (see figure A)

The 1-arm socket can be mounted at three different positions on the handlebars:

- In front of the handlebars ①
- Over the stem @

In the triangle between the stem and handlebar (3)
 Note: In order to ensure clean cable routing, the appropriate display mount must be used for each of the three different positions: The BDS3210 display mount for in front of the handlebars (electrical connections at the rear); the BDS3250 display mount for over the stem or in the triangle between the stem and handlebar (electrical connections at the front).

If you want to change the installation position and you have the correct display mount (1), you must first remove the 1arm socket (6) and re-mount it afterwards.

Note: Please be aware that there are two different handlebar diameters (31.8 mm and 35 mm). Your bicycle retailer will help you to select the correct components.

Mounting the display mount (see figure B)

Insert the display mount (1) into the adapter tray (2). Ensure that it is in the required installation position. Secure the display mount (1) from below using the screws (11). When

doing so, be aware of the torque specified on the adapter tray **(2)**.

Connect the connection cables that come out of the drive unit and the control unit. It does not matter which cable is connected to which connection for the functions to work. When connecting the cables, ensure that the markings on the connector and on the cable match.

Securing on the handlebars (see figure C)

Note: The display holder must only be secured in the cylindrical area of the handlebars and not in the tapered area. To clamp a display in the centre, the handlebars must have a cylindrical area of at least 90 mm in width.

Open the clamp and bring the 1-arm socket **(6)**, together with the round rubber spacer **(5)**, into the required position. Gently tighten the clamp screw **(4)** so that the 1-arm socket **(6)** can still move.

Adjust the tilt for the display mount by loosening and tightening the screw (7). Preferably adjust the tilt without the display or on-board computer.

In the connection between the 1-arm socket **(6)** and the adapter tray, there are interlocking teeth, which means that it is only possible to align the adapter tray in predefined positions. Before tightening the screw **(7)**, make sure that the teeth engage in one another correctly. In addition, be aware of the torque specified on the 1-arm socket **(6)**.

Bring the 1-arm socket (6) into its final position and tighten the clamp screw (4). Be aware of the torque specified on the 1-arm socket (6) here too.

Thanks to the round rubber spacer (5), it is possible to move the 1-arm socket (6) in all directions.

Removal blocker

A device attached to the display holder can be secured using the removal blocker **(8)**. Usage is described in the operating instructions for the respective device.

Maintenance and servicing

Maintenance and cleaning

The display holder must not be cleaned with pressurised water.

Use a soft cloth dampened only with water for cleaning. Do not use cleaning products of any kind.

 Have all repairs performed only by an authorised bike dealer.

After-sales service and advice on using products

If you have any questions about the eBike system and its components, contact an authorised bicycle dealer. For contact details of authorised bike dealerships, please visit www.bosch-ebike.com.

Disposal



The drive unit, on-board computer incl. operating unit, battery, speed sensor, accessories and packaging should be disposed of in an environmentally correct manner.

Do not dispose of eBikes and their components with household waste.

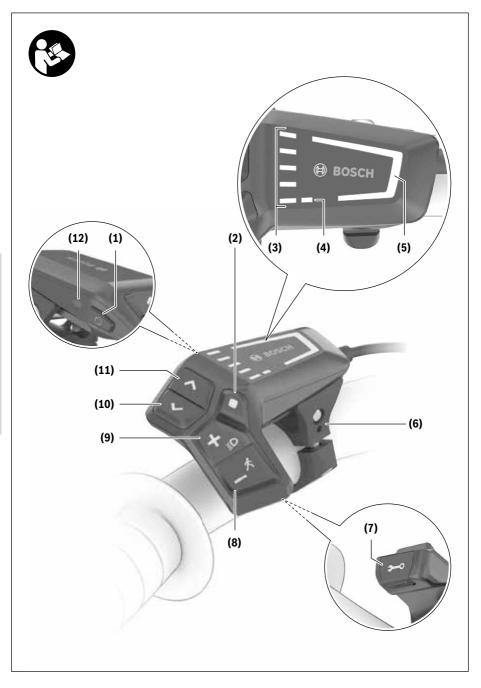


In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/drained batteries must be collected separately and recycled in an environmentally friendly manner.

Please return Bosch eBike components that are no longer usable to an authorised bicycle dealer.

Subject to change without notice.

LED Remote



Safety instructions



Read all the safety information and instructions. Failure to observe the safety in-

formation and follow instructions may result in electric shock, fire and/or serious injury.

Save all safety warnings and instructions for future reference.

The term **battery** is used in these instructions to mean all original Bosch eBike rechargeable battery packs.

- Do not attempt to secure the display or operating unit while riding.
- The push assistance function must only be used when pushing the eBike. There is a risk of injury if the wheels of the eBike are not in contact with the ground while using the push assistance.
- When the push assistance is activated, the pedals may turn at the same time. When the push assistance function is activated, make sure that there is enough space between your legs and the turning pedals to avoid the risk of injury.
- Do not stand your bicycle upside down on its handlebars and saddle if the operating unit or its holder protrude from the handlebars. This may irreparably damage the operating unit or the holder.
- Do not connect a charger to the eBike system if the eBike system displays a critical error. This may result in damage to your battery. The battery may catch fire, thereby resulting in serious burns and other injuries.
- The operating unit features a wireless interface. Local operating restrictions, e.g. in aeroplanes or hospitals, must be observed.
- Caution! When using the operating unit with Bluetooth®, this may cause interference that affects other devices and systems, aeroplanes and medical devices (e.g. pacemakers, hearing aids). Likewise, injury to people and animals in the immediate vicinity cannot be excluded entirely. Do not use the operating unit with Bluetooth® in the vicinity of medical devices, petrol stations, chemical plants, areas with a potentially explosive atmosphere or on blast sites. Do not use the operating unit with Bluetooth® in aeroplanes. Avoid operation near your body for extended periods.
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Bosch eBike Systems is under licence.
- Observe all national regulations which set out the approved use of eBikes.
- Read and observe the safety warnings and directions contained in all the eBike system operating instructions and in the operating instructions of your eBike.

Privacy notice

When you connect the eBike to the **Bosch DiagnosticTool 3**, data about Bosch drive unit (e.g. energy consumption, temperature, etc.) is transferred to Bosch eBike Systems (Robert Bosch GmbH) for the purposes of product improvement. You can find more information about this on the Bosch eBike website at <u>www.bosch-ebike.com</u>.

Product description and specifications

Intended use

The **LED Remote** operating unit is designed to control a Bosch eBike system and control an on-board computer. The **eBike Flow** app can be accessed via *Bluetooth*[®].

Product features

The numbering of the components shown refers to the illustrations on the graphics pages at the beginning of the manual.

All illustrations of bike parts except for the drive unit, onboard computer (including operating unit), speed sensor and the corresponding holders are a schematic representation and may differ on your eBike.

- (1) On/off button
- (2) Select button
- (3) LEDs for battery charge indicator
- (4) ABS LED (optional)
- (5) Assistance level LED
- (6) Holder
- (7) Diagnostics connection (for servicing purposes only)
- (8) Button for decreasing support level -/ walk assistance
- (9) Button for increasing support level +/ bike lights
- (10) Button to reduce brightness/ go back
- (11) Button to increase brightness/ go forward
- (12) Ambient light sensor

Technical data

Operating unit		LED Remote
Product code		BRC3600
Max. charging current of USB port	mA	600
USB port charging voltage	V	5
USB charging cable ^{A)}		USB Type C ^{®B)}
Charging temperature	°C	0 to +45
Operating temperature	°C	-5 to +40
Storage temperature	°C	+10 to +40
Diagnostic interface		USB Type C ^{®B)}
Internal lithium-ion battery	V	3,7
	mAh	75

Operating unit		LED Remote
Protection rating		IP54
Dimensions (without fastening)	mm	74 × 53 × 35
Weight	g	30
Bluetooth [®] Low Energy 5.0		
 Frequency 	MHz	2400-2480
- Transmission power	mW	1
A) NUMBER AND A STREET AND A STREET	P	

A) Not included as part of standard delivery

B) USB Type-C* and USB-C* are trademarks of USB Implementers Forum.

Declaration of Conformity

Robert Bosch GmbH, Bosch eBike Systems, hereby declares that the **LED Remote** radio communication unit complies with the Radio Equipment Regulations 2017 (SI 2917/1206). The full text of the UK Declaration of Conformity can be accessed at the following Internet address: <u>https://www.ebike-connect.com/conformity</u>.

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Operation

Prerequisites

The eBike system can only be activated when the following requirements are met:

- A sufficiently charged battery is inserted (see battery operating instructions).
- The speed sensor is connected properly (see drive unit operating instructions).

Operating unit power supply

If a sufficiently charged eBike battery is inserted into the eBike and the eBike system is switched on, then the operating unit battery is powered and charged by the eBike battery.

If the state of charge of the internal battery is very low, you can charge the internal battery via the diagnostics connection **(7)** with a USB Type C[®] cable using a power bank or another suitable power source (charging voltage **5 V**; charging current max. **600 mA**).

Always close the flap of the diagnostics connection **(7)** so that no dust or moisture can enter.

Switching the eBike system on/off

To **switch on** the eBike system, briefly press the on/off button **(1)**. After all LEDs briefly light up, the state of charge of the battery is displayed in colour with the battery charge indicator **(3)** and the set assistance level with the **(5)** display. The eBike is ready to ride. The display brightness is controlled by the ambient light sensor (12). Therefore, do not cover the ambient light sensor (12).

The drive is activated as soon as you start pedalling (except at assistance level **OFF**). The motor output depends on the settings of the assistance level.

As soon as you stop pedalling when in normal operation, or as soon as you have reached a speed of **25 km/h**, the eBike drive switches off the assistance. The drive is automatically reactivated as soon you start pedalling again and the speed is below **25 km/h**.

To **switch off** the eBike system, press the on/off button **(1)** briefly (< 3 s). The battery charge indicator **(3)** and the assistance level LED **(5)** go out.

If no power is drawn from the eBike drive for about **10** minutes (e.g. because the eBike is not moving) and no button is pressed on the on-board computer or the control unit of the eBike, the eBike system will switch off automatically.

Battery charge indicator

The battery charge indicator (3) displays the eBike battery's state of charge. The state of charge of the eBike battery can also be checked on the LEDs of the battery itself.

In the (3) display, each ice-blue bar represents 20 % capacity and each white bar represents 10 % capacity. The topmost bar shows the maximum capacity.

Example: Four ice-blue bars and one white bar are displayed. The state of charge is between 81 % and 90 %.

If capacity is low, both of the lower	displays change colour:
---------------------------------------	-------------------------

Bar	Capacity
2 × orange	30 % to 21 %
1 × orange	20 % to 11 %
1 × red	10 % to reserve
1 × red flashing	Reserve to empty

If the eBike battery is being charged, the topmost bar on the battery charge indicator **(3)** flashes.

Setting the assistance level

On the operating unit using the **(8)** and **(9)** buttons, you can set how much the eBike drive assists you while pedalling. The assistance level can be changed at any time, even while cycling, and is displayed in colour.

Level	Colour	Notes
OFF	None	Motor support is switched off. The eBike can just be moved by pedalling, as with a normal bicycle.
ECO	Green	Effective support with maximum effi- ciency, for maximum range
TOUR	Blue	Steady support, long range for touring
eMTB/ SPORT	Purple	Optimal support whatever the terrain, rapid acceleration when starting from a standstill, improved dynamics and top performance

l	Level	Colour	Notes
•	TURBO	Red	Maximum support even at a high ca- dence, for sport cycling

The designations and configuration of the assistance levels can be preconfigured by the manufacturer and selected by the bicycle retailer.

Interaction between the eBike system and gearshifting

The gear shifting should be used with an eBike drive in the same way as with a normal bicycle (observe the operating instructions of your eBike on this point).

Irrespective of the type of gear shifting, it is advisable that you briefly reduce the pressure on the pedals when changing gear. This will aid gear shifting and reduce wear on the powertrain.

By selecting the correct gear, you can increase your speed and range while applying the same amount of force.

Switching bike lights on/off

Check that your bike lights are working correctly before every use.

To switch on the bike lights, press the (9) button for more than 1 s.

You can use the (11) and (10) buttons to control the brightness of the LEDs on the operating unit.

Switching the push assistance on/off

The push assistance aids you when pushing your eBike. The speed in this function depends on the selected gear and can reach a maximum of 6 km/h. The lower the selected gear, the lower the speed of the push assistance function (at full power).

The push assistance function must only be used when **pushing the eBike.** There is a risk of injury if the wheels of the eBike are not in contact with the ground while using the push assistance.

To start walk assistance, press the (8) button for more than 1 s and keep it pressed. The battery charge indicator (3) goes out and a white moving light in the direction of travel shows that it is ready.

To activate walk assistance, one of the following actions must occur within the next 10 s:

- Push the eBike forwards.
- Push the eBike backwards.

 Perform a sideways tilting movement with the eBike. After activation, the motor begins to push and the continuously filling white bars change colour to ice-blue.

If you release the (8) button, walk assistance is paused. You can reactivate walk assistance within 10 s by pressing the (8) button.

If you do not reactivate walk assistance within 10 s, walk assistance automatically switches off.

Walk assistance is always ended if:

- the rear wheel iams:
- the bicycle cannot move over ridges;

- a body part is blocking the bike crank;
- an obstacle continues to turn the crank;
- you start pedalling:
- the (9) button or on/off button (1) is pressed.

The push assistance function is subject to local regulations; the way it works may therefore differ from the description above, or the function may even be deactivated completely.

ABS – anti-lock braking system (optional)

If the bicycle is equipped with a Bosch eBike ABS, the ABS LED (4) lights up when the eBike system starts.

If the eBike reaches a speed of **6 km/h**, the ABS LED **(4)** goes out.

In the event of a fault, the ABS LED (4) lights up together with the orange flashing assistance level LED (5). You can acknowledge the error with the select button (2); the flashing assistance level LED (5) goes out. The ABS LED (4) continues to light up to show that the ABS system is not in operation.

For details on the ABS and how it works, please refer to the ABS operating instructions.

Establishing a smartphone connection

In order to be able to use the following eBike functions, a smartphone with the **eBike Flow** application is required.

Connection to the app occurs via a *Bluetooth*[®] connection. Switch on the eBike system and do not start riding the eBike. Begin Bluetooth[®] pairing by long pressing (> 3 s) the on/off button (1). Release the on/off button (1) as soon as the topmost bar on the battery charge indicator shows the pairing process by flashing blue.

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Confirm the connection request in the app.

Activity tracking

In order to record activities, it is necessary to register and log into the eBike Flow app.

To record activities, you must consent to the storage of your location data in the app. Without this, your activities cannot be recorded in the app. For location data to be recorded, you must be logged in as the user.

Lock function

The lock function can be set up and configured via the **eBike Flow** app. This stores a digital key on the smartphone, which is required to start the eBike system.

Once the lock function is switched on, the eBike can only be put into operation if:

- the configured smartphone is switched on:
- the smartphone has sufficient battery charge;
- and the smartphone is in the immediate vicinity of the operating unit.

Otherwise, motor support remains switched off.

If the key is not verified immediately, the search for the key is shown by the battery charge indicator (3) and the assistance level LED (5) flashing white. If the key is found, after flashing white the state of charge of the battery and the last set assistance level is displayed.

If the key cannot be found on the smartphone, the eBike system automatically switches off. The displays on the operating unit go out.

Since the smartphone functions only as a contactless key when switching on, the eBike battery and on-board computer can still be used on a different, unlocked eBike.

Software updates

Software updates are transferred to the operating unit in the background of the app as soon as it is connected to the app. During the update process, a green flashing on the battery charge indicator (3) shows the progress. The system is then restarted.

You can control the software updates via the **eBike Flow** app.

Error messages

The operating unit shows whether critical errors or less critical errors occur in the eBike system.

The error messages generated by the eBike system can be read via the **eBike Flow** app or by your bicycle retailer.

Via a link in the **eBike Flow** app, information about the error and support for rectifying the error can be displayed.

Less critical errors

Less critical errors are shown by the assistance level LED (5) flashing orange. Pressing the select button (2) confirms the error and the assistance level LED (5) once again continuously shows the colour of the set assistance level.

You can use the following table to rectify the errors yourself if necessary. Otherwise, please contact your bicycle retailer.

Number	Troubleshooting	
0x523005	The indicated error numbers show that	
0x514001	there is interference when the sensors de- tect the magnetic field. See whether you have lost the magnets while riding. -If you are using a magnet sensor, check that the sensor and magnet have been properly installed. Make sure too that the cable to the sensor is not damaged.	
0x514002		
0x514003		
0x514006		
	If you are using a rim magnet, make sure that you do not have any magnetic field interfer-	

ence in the vicinity of the drive unit.

Critical errors

Critical errors are shown by the assistance level LED (5) and the battery charge indicator (3) flashing red. In the event of a critical error, visit a bicycle retailer as soon as possible. Do not connect a charger to the system.

Maintenance and servicing

Maintenance and cleaning

The operating unit must not be cleaned with pressurised water.

Keep the operating unit clean. Dirt can cause faulty brightness detection.

Clean your operating unit using a soft cloth dampened only with water. Do not use cleaning products of any kind.

 Have all repairs performed only by an authorised bike dealer.

After-sales service and advice on using products

If you have any questions about the eBike system and its components, contact an authorised bicycle dealer. For contact details of authorised bike dealerships, please visit <u>www.bosch-ebike.com</u>.

Disposal



The drive unit, on-board computer incl. operating unit, battery, speed sensor, accessories and packaging should be disposed of in an environmentally correct manner.

Do not dispose of eBikes and their components with household waste.

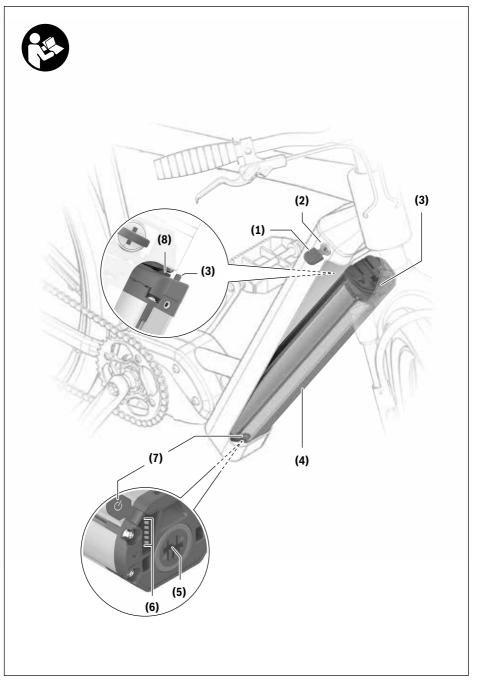


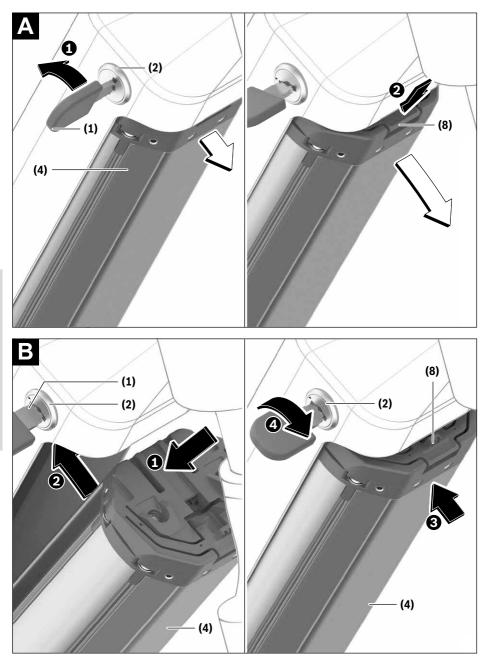
In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/drained batteries must be collected separately and recycled in an environmentally friendly manner.

Please return Bosch eBike components that are no longer usable to an authorised bicycle dealer.

Subject to change without notice.

Powertube





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Safety instructions



Read all the safety and general instructions.

Failure to observe the safety and general instructions may result in electric shock, fire and/or serious injury.

The contents of lithium-ion battery cells are flammable under certain conditions. You must therefore ensure that you have read and understood the rules of conduct set out in these operating instructions.

Save all safety warnings and instructions for future reference.

The term **battery** is used in these instructions to mean all original Bosch eBike rechargeable battery packs.

- Remove the battery from the eBike before beginning work (e.g. inspection, repair, assembly, maintenance, work on the chain, etc.) on the eBike, transporting it with a car or aeroplane, or storing it. Unintentional activation of the eBike system poses a risk of injury.
- Do not open the battery. There is a risk of short-circuiting. Opening the battery voids any and all warranty claims.
- Protect the battery against heat (e.g. prolonged sun exposure), fire and from being submerged in water. Do not store or operate the battery near hot or flammable objects. There is a risk of explosion.
- When the battery is not in use, keep it away from paper clips, coins, keys, nails, screws or other small metal objects that could make a connection from one terminal to another. A short circuit between the battery terminals may cause burns or a fire. Short circuit damage which occurs in this instance voids any and all warranty claims against Bosch.
- Avoid mechanical loads and exposure to high temperatures. These can damage the battery cells and cause the flammable contents to leak out.
- Do not place the charger or the battery near flammable materials. Ensure the battery is completely dry and placed on a fireproof surface before charging. There is a risk of fire due to the heat generated during charging.
- The eBike battery must not be left unattended while charging.
- If used incorrectly, liquid may leak from the battery. Contact with this liquid should be avoided. If contact occurs, rinse off with water. If the liquid comes into contact with your eyes, seek additional medical attention. Liquid leaking from the battery may cause irritation or scalding.
- ► Batteries must not be subjected to mechanical shock. There is a risk of the battery being damaged.
- The battery may give off fumes if it becomes damaged or is used incorrectly. Ensure the area is well ventilated and seek medical attention should you experience any adverse effects. The fumes may irritate the respiratory system.

- Only charge the battery using original Bosch chargers. When using chargers that are not made by Bosch, the risk of fire cannot be excluded.
- Use the battery only in conjunction with eBikes that have original Bosch eBike drive systems. This is the only way in which you can protect the battery against dangerous overload.
- Use only original Bosch batteries that the manufacturer has approved for your eBike. Using other batteries can lead to injuries and pose a fire hazard. Bosch accepts no liability or warranty claims if other batteries are used.
- ▶ Keep the battery away from children.
- Read and observe the safety warnings and directions contained in all the eBike system operating instructions and in the operating instructions of your eBike.

The safety of both our customers and our products is important to us. Our eBike batteries are lithium-ion batteries which have been developed and manufactured in accordance with the latest technology. We comply with or exceed the requirements of all relevant safety standards. When charged, these lithium-ion batteries contain a high level of energy. If a fault occurs (which may not be detectable from the outside), in very rare cases and under unfavourable conditions, lithiumion batteries can catch fire.

Privacy notice

When you connect the eBike to the Bosch Dia-

gnosticTool 3, data about the eBike batteries (e.g. temperature, cell voltage, etc.) is transferred to Bosch eBike Systems (Robert Bosch GmbH) for the purposes of product improvement. You can find more information about this on the Bosch eBike website at <u>www.bosch-ebike.com</u>.

Product description and specifications

Intended Use

The Bosch eBike rechargeable batteries are intended exclusively for the power supply of your Bosch eBike drive unit and must not be used for any other purpose.

Product features

The numbering of the components shown refers to the illustrations on the graphics pages at the beginning of the manual.

All representations of bicycle parts, apart from the batteries and their holders, are schematic and may differ from those on your own eBike.

In addition to the functions shown here, changes to software relating to troubleshooting and functional modifications may be introduced at any time.

- (1) Key for the battery lock
- (2) Battery lock
- (3) PowerTube battery safety hook

- (4) PowerTube battery (pivot)
- (5) Socket for charging connector
- (6) Operation/battery charge indicator
- (7) On/off button
- (8) PowerTube battery safety restraint
- (9) Locking mechanism
- (10) Pull strap
- (11) Axial rail
- (12) PowerTube battery (axial)
- (13) Upper axial PowerTube holder

Technical data

Li-ion battery	PowerTube 750	
Product code	Horizontal	BBP3770
Product code	Vertical	BBP3771
Rated voltage	V=	36
Nominal capacity	Ah	20.1
Energy	Wh	750
Operating temperature	°C	-5 to +40
Storage temperature	C°	+10 to +40
Permitted charging temperature range	°C	0 to +40
Weight, approx.	kg	4.4
Protection rating		IP54

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Fitting

Ensure the battery is placed on clean surfaces only. Avoid getting dirt, e.g. sand or soil, in the charging socket and contacts in particular.

Testing the battery before using it for the first time

Test the battery before charging it for the first time or using it in your eBike.

To do this, press the on/off button (7) to switch the battery on. If none of the LEDs on the battery charge indicator (6) light up, the battery may be damaged.

If at least one (but not all) of the LEDs on the battery charge indicator **(6)** lights up, the battery will need to be fully charged before using it for the first time.

► Do not charge or use batteries if they are damaged. Contact an authorised bicycle dealer.

Charging the battery

A Bosch eBike battery must only be charged using an original Bosch eBike charger.

Note: The battery is supplied partially charged. To ensure full battery capacity, fully charge the battery in the charger before using it for the first time.

To charge the battery, read and follow the instructions in the operating manual for the charger.

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

The battery has a temperature monitoring function which only allows it to be charged within a temperature range of 0 °C to 40 °C.



If the temperature of the battery is outside this charging range, three of the LEDs on the battery charge indicator (**6**) will flash. Disconnect the battery from the charger and let it acclimatise.

Do not reconnect the battery to the charger until it has reached the correct charging temperature.

Battery charge indicator

The five green LEDs on the battery charge indicator **(6)** indicate the battery's state of charge of when the battery is switched on.

Each LED represents approximately 20 % of the charging capacity. When the battery is fully charged, all five LEDs will be lit.

The battery's state of charge when switched on is also shown on the display of the on-board computer. Read and follow the instructions in the operating manuals for the drive unit and on-board computer.

If the battery capacity is less than 5 %, all the LEDs on the battery charge indicator **(6)** on the battery will go out. The display function of the on-board computer, however, will carry on working.

Once charging is complete, disconnect the battery from the charger and the charger from the mains.

Inserting and removing the battery

 Always switch off the battery and the eBike system when inserting the battery into the holder or removing it from the holder.

Removing the PowerTube battery (pivot) (see figure A)

- To remove the PowerTube battery (4), open the lock (2) using the key (1). The battery will be unlocked and fall into the safety restraint (8).
- Press on the safety restraint from above. The battery will be unlocked completely and fall into your hand. Pull the battery out of the frame.

Note: As a result of **varying** designs, the battery may need to be inserted and removed using a different method. Read the operating instructions of the eBike manufacturer.

Inserting the PowerTube battery (pivot) (see figure B)

In order for the battery to be inserted, the key (1) must be inserted into the lock (2) and the lock must be open.

- To insert the PowerTube battery (4), place it so that its contacts are in the lower holder of the frame.
- Push the battery upwards until it is held by the safety restraint (8).
- Hold the lock open with the key and press the battery upwards until you hear it click into place. Check that the battery is secure in all directions.
- Always secure the battery by closing the lock (2) otherwise the lock may open and the battery may fall out of the holder.

Always remove the key (1) from the lock (2) after locking it. This prevents both the key from falling out and the battery from being removed by unauthorised third parties when the eBike is not in use.

Removing the PowerTube battery (axial) (see figure C)

- To remove the PowerTube battery (12), open the lock (2) using the key (1), remove the key (1) and fold the locking mechanism (9) to the side.
- Use the pull strap (10) to pull the battery (12) out of the frame.

Note: As a result of **varying** designs, the battery may need to be inserted and removed using a different method. Read the operating instructions of the eBike manufacturer.

Inserting the PowerTube battery (axial) (see figure D)

In order for the battery to be inserted, the locking mechanism (9) must be folded to the side. At this point, the key (1) must not be inserted in the battery lock (2).

- To insert the PowerTube battery, insert it into the frame with the socket for the charging connector (5) facing upwards until the battery clicks into place.
- Close the locking mechanism (9), insert the key (1) into the battery lock (2) and secure the battery. Make sure that the safety hook (3) is hooked in at the opening of the axial rail (11).

• Check that the battery is secure in all directions. Always remove the key (1) from the lock (2) after locking it. This prevents both the key from falling out and the battery from being removed by unauthorised third parties when the eBike is not in use.

Operation

Start-up

Use only original Bosch batteries that the manufacturer has approved for your eBike. Using other batteries can lead to injuries and pose a fire hazard. Bosch accepts no liability or warranty claims if other batteries are used.

Switching on/off

Switching on the battery is one way to switch on the eBike system. Read and follow the instructions in the operating manuals for the drive unit and on-board computer.

Before switching on the battery, i.e. the eBike system, make sure that the lock **(2)** is closed.

To **switch on** the battery, press the on/off button **(7)**. Do not use any sharp or pointed objects to press the button. The LEDs on the indicator **(6)** will light up, indicating the battery's state of charge at the same time.

Note: If the battery capacity is less than 5 %, none of the LEDs on the battery charge indicator **(6)** will light up. Whether the eBike system is switched on is only visible on the on-board computer/control unit.

To **switch off** the battery, press the on/off button **(7)** again. The LEDs on the indicator **(6)** will go out. This will also switch the eBike system off.

If no power is drawn from the eBike drive for

about **10** minutes (e.g. because the eBike is not moving) and no button is pressed on the on-board computer or the control unit of the eBike, the eBike system will switch off automatically.

The battery is protected against deep discharge, overloading, overheating and short-circuiting by the "Electronic Cell Protection (ECP)". In the event of danger, a protective circuit switches the battery off automatically.



If a fault is detected in the battery, two of the LEDs on the battery charge indicator (**6**) will flash. Contact an authorised bicycle dealer if this happens.

Recommendations for optimal handling of the battery

The service life of the battery can be extended if it is looked after well and especially if it is stored at the correct temperature.

As it ages, however, the capacity of the battery will diminish, even with good care.

A significantly reduced operating time after charging indicates that the battery has deteriorated. You can replace the battery.

Recharging the battery before and during storage

When you are not going to use the battery for an extended period (longer than three months), store it at a state of charge of around 30 % to 60 % (when two to three of the LEDs on the battery charge indicator **(6)** are lit).

Check the state of charge after six months. If only one of the LEDs on the battery charge indicator **(6)** is lit, charge the battery back up to around 30 % to 60 %.

Note: If the battery is stored with no charge for an extended period of time, it may become damaged despite the low self-discharge and the battery capacity could be significantly reduced.

Leaving the battery permanently connected to the charger is not recommended.

Storage conditions

If possible, store the battery in a dry, well-ventilated place. Protect it against moisture and water. When the weather conditions are bad, it is advisable to remove the battery from the eBike and store it in a closed room until you use it next, for example.

Store the eBike batteries in the following locations:

- In a room with a smoke alarm
- Away from combustible or easily flammable objects
- Away from heat sources

To ensure an optimum service life, store the eBike batteries at temperatures between **10 °C** and **20 °C**. Never store them at temperatures below **-10 °C** or above **60 °C**.

Make sure that the maximum storage temperature is not exceeded. Do not leave the battery in your car in the summer, for example, and store it away from direct sunlight.

Leaving the battery on the bicycle for storage is not recommended.

Action in the event of a fault

The Bosch eBike rechargeable battery must not be opened, including for repairs. There is a risk of the Bosch eBike rechargeable battery catching fire, e.g. as a result of a short circuit. This risk continues to apply on any Bosch eBike rechargeable battery **ever** opened, even at a later point in time.

In the event of a fault, do not have your Bosch eBike rechargeable battery repaired; instead, have it replaced with an original Bosch eBike rechargeable battery by your specialist retailer.

Maintenance and servicing

Maintenance and cleaning

The battery must not be submerged in water or cleaned using a jet of water.

Keep the battery clean. Clean it carefully with a soft, damp cloth.

Clean and lightly grease the connector pins occasionally.

Please contact an authorised bicycle dealer if the battery is no longer working.

After-sales service and advice on using products

If you have any questions about the batteries, contact an authorised bicycle dealer.

▶ Note down the key manufacturer and number on the key (1). Contact an authorised bicycle dealer if you lose the key. Give them the name of the key manufacturer and the number on the key.

For contact details of authorised bicycle dealers, please visit www.bosch-ebike.com.

Transport

 If you transport your eBike attached to the outside of your car, e.g. on a bike rack, remove the on-board computer and the eBike battery to avoid damaging them.

The batteries are subject to legislation on the transport of dangerous goods. Private users can transport undamaged batteries by road without having to comply with additional requirements.

When batteries are transported by commercial users or third parties (e.g. air transport or forwarding agency), special requirements on packaging and labelling (e.g. ADR regulations) must be met. When preparing items for shipping, a dangerous goods expert can be consulted as required.

Do not ship batteries if the housing is damaged or the rechargeable battery is not fully functional. Use only the original Bosch packaging for transport. Apply tape over exposed contacts and pack the battery such that it cannot move around inside the packaging. Inform your parcel service that the package contains dangerous goods. Please also observe any additional national regulations should these exist.

If you have any questions about transporting the batteries, contact an authorised bicycle dealer. You can also order suitable transport packaging from the dealer.

Disposal



Batteries, accessories and packaging should be recycled in an environmentally friendly manner.

Do not dispose of batteries along with household waste. Apply tape over the contact surfaces of the battery terminals before disposing of batteries.

Do not touch severely damaged eBike batteries with your bare hands – electrolyte may escape and cause skin irritation. Store the defective battery in a safe location outdoors. Cover the terminals if necessary and inform your dealer. They will help you to dispose of it properly.



In accordance with Directive 2012/19/EU and Directive 2006/66/EC respectively, electronic devices that are no longer usable and defective/drained batteries must be collected separately and recycled in an environmentally friendly manner.

Please return batteries that are no longer usable to an authorised bicycle dealer.

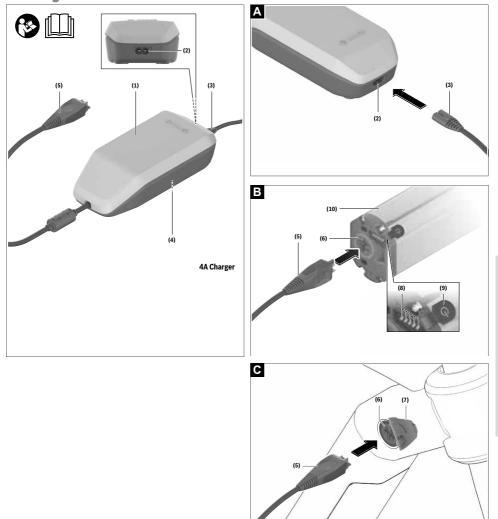
Li-ion:



Please observe the information in the section on (see "Transport", page English – 4).

Subject to change without notice.

Charger



Safety instructions



Read all the safety and general instructions. Failure to observe the safety and general instructions may result in electric shock,

fire and/or serious injury.

Save all safety warnings and instructions for future reference.

The term **battery** is used in these instructions to mean all original Bosch eBike rechargeable battery packs.



Do not expose the charger to rain or wet conditions. If water enters a charger, there is a risk of electric shock.

- Charge only Bosch lithium-ion batteries that are approved for use in eBikes. The battery voltage must match the battery charging voltage of the charger. Otherwise there is a danger of fire and explosion.
- ► Keep the charger clean. Dirt poses a risk of electric shock.
- Always check the charger, cable and plug before use. Stop using the charger if you discover any damage. Do not open the charger. Damaged chargers, cables and plugs increase the risk of electric shock.
- ► Do not operate the charger on an easily ignited surface (e.g. paper, textiles, etc.) or in a flammable envir-

eBike Battery Charger BPC3400

Input: 220-240 V ~ 50-60 Hz 1.65 A

onment. There is a risk of fire due to the charger heating up during operation.

- ► Take care if you touch the charger while it is charging. Wear protective gloves. The charger can get very hot, especially when the ambient temperature is high.
- The battery may give off fumes if it becomes damaged or is used incorrectly. Ensure the area is well ventilated and seek medical attention should you experience any adverse effects. The fumes may irritate the respiratory system.
- The eBike battery must not be left unattended while charging.
- Supervise children during use, cleaning and maintenance. This will ensure that children do not play with the charger.
- Children or persons who, owing to their physical, sensory or mental limitations or to their lack of experience or knowledge, are not capable of safely operating the charger may only use this charger under supervision or after having been instructed by a responsible person. Otherwise, there is a danger of operating errors and injuries.
- Read and observe the safety warnings and directions contained in all the eBike system operating instructions and in the operating instructions of your eBike.
- ► A sticker in English is adhered to the bottom of the charger (marked (4) in the diagram on the graphics page). This says:

Use ONLY with BOSCH lithium-ion rechargeable batteries!



Product description and specifications

Intended Use

4A Charger EB12.110.001

Output: 36 V== 4 A

Robert Bosch GmbH 72757 Reutlingen, Germany

Made in Vietnam

In addition to the functions shown here, changes to software relating to troubleshooting and functional modifications may be introduced at any time.

The Bosch eBike chargers are intended exclusively for charging Bosch eBike batteries and must not be used for any other purpose.

Product features

The numbering of the components shown refers to the illustrations on the graphics pages at the beginning of the manual. Individual illustrations in these operating instructions may differ slightly from the actual conditions depending on the equipment of your eBike.

- (1) Battery charger
- (2) Device socket
- (3) Device connector
- (4) Charger safety instructions
- (5) Charging connector
- (6) Socket for charging connector
- (7) Charging socket cover
- (8) Operation/battery charge indicator
- (9) Battery on/off button
- (10) PowerTube

Technical data

Charger		4A Charger
Product code		BPC3400
Rated voltage	٧~	198 to 264
Frequency	Hz	47 to 63
Battery charging voltage	V=	36
Charging current (max.)	Α	4
Charging time for PowerTube 750, approx.		6
Operating temperature	°C	0 to 40
Storage temperature		10 to 40
Weight, approx.	kg	0.7
Protection rating		IP40

The specifications apply to a rated voltage [U] of 230 V. These specifications may vary at different voltages and in country-specific models.

UK CA

Operation

Start-up

Connecting the charger to the mains (see figure A)

▶ Pay attention to the mains voltage. The voltage of the power source must match the voltage specified on the rating plate of the charger. Chargers marked 230 V can also be operated at 220 V.

Plug the device connector (3) of the power cable into the device socket (2) on the charger.

Connect the power cable (country-specific) to the mains.

Charging the removed battery (see figure B)

Switch the battery off and remove it from its holder on the eBike. When doing so, read and observe the operating instructions of the battery.

Ensure the battery is placed on clean surfaces only. Avoid getting dirt, e.g. sand or soil, in the charging socket and contacts in particular.

Plug the charging connector **(5)** of the charger into the socket **(6)** on the battery.

Charging the battery on the bike (see figure C)

Switch the battery off. Clean the cover of the charging socket (7). Avoid getting dirt, e.g. sand or soil, in the char-

ging socket and contacts in particular. Lift the cover of the charging socket (7) and plug the charging connector (5) into the charging socket (6).

There is a risk of fire due to the charger heating up during charging. Ensure the battery on the bike is completely dry and placed on a fireproof surface before charging. If this is not possible, remove the battery from the holder and charge it in a more suitable location. When doing so, read and observe the operating instructions of the battery.

Charging process

The charging process begins as soon as the charger is connected to the battery or charging socket on the bike and to the mains.

Note: The charging process is only possible when the temperature of the eBike battery is within the permitted charging temperature range.

Note: The drive unit is deactivated during the charging process.

The battery can be charged with and without the on-board computer. When charging without the on-board computer, the charging procedure can be observed on the battery charge indicator.

When the on-board computer is connected, a charging notification appears on the display.

The state of charge is displayed by the battery charge indicator (8) on the battery and by the bars on the on-board computer.

The LEDs on the battery charge indicator **(8)** flash during the charging process. Each solid illuminated LED represents approximately 20% of the charging capacity. The flashing LED indicates the next 20% currently charging.

Once the eBike battery is fully charged, the LEDs go out immediately and the on-board computer is switched off. The charging process is terminated. The state of charge can be displayed for **5** seconds by pressing the on/off button **(9)** on the eBike battery.

Disconnect the charger from the mains and the battery from the charger.

When the battery is disconnected from the charger, the battery is automatically switched off.

Note: If you have charged the battery on the bike, carefully close the charging socket **(6)** with the cover **(7)** after charging, so that no dirt or water can get in.

If the charger is not disconnected from the battery after charging, after a few hours the charger will switch itself back on, check the state of charge of the battery and begin the charging procedure again if necessary.

Errors - causes and corrective measures

Cause	Corrective measures		
	Two LEDs flash on the battery.		
L' Leve to Leve to	Contact an authorised bike dealership.		
Battery defective			
	Three LEDs flash on the battery.		
	Disconnect the battery from the charger until the charging temperature range has been reached.		
Battery too warm or too cold	Do not reconnect the battery to the charger until it has reached the correct charging temperature.		
	No LEDs flashing (one or more LEDs will remain perman- ently lit depending on the state of charge of the eBike bat- tery).		
The charger is not charging.	Contact an authorised bike dealership.		
Charging not possible (no indicator on battery)			
Connector not attached properly	Check all connections.		
Battery contacts dirty	Carefully clean the battery contacts.		
Plug socket, cable or charger defective	Check the mains voltage, have the charger checked over by a bike dealership.		
Battery defective	Contact an authorised bike dealership.		

Maintenance and servicing

Maintenance and cleaning

If the charger fails, please contact an authorised bike dealership.

After-sales service and advice on using products

If you have any questions about the eBike system and its components, contact an authorised bicycle dealer. For contact details of authorised bike dealerships, please visit www.bosch-ebike.com.

Disposal

Chargers, accessories and packaging should be recycled in an environmentally friendly manner.

Do not dispose of chargers along with household waste.

Only for EU countries:



⁴ According to the European Directive 2012/19/ EU on Waste Electrical and Electronic Equipment and its implementation into national law, chargers that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

Subject to change without notice.



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KTM-BIKES.AT

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