

Cette notice contient d'importantes informations sur la sécurité, les performances et l'entretien. Lisez-les et comprenez-les ainsi que les informations fournies par le fabricant de votre vélo avant d'utiliser le produit, et conservez-les pour référence ultérieure.

LED Controller

BRC3610



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Este manual contiene información importante de seguridad, rendimiento y mantenimiento. Léalo y asegúrese de entenderlo junto con la información que le ha facilitado el fabricante de su bicicleta antes de usar el producto; guárdelo a modo de referencia.

en Original operating instructions

This manual contains important safety, performance and service information. Read and understand it along with the information provided to you by your bicycle manufacturer before using the product, and keep it for reference.

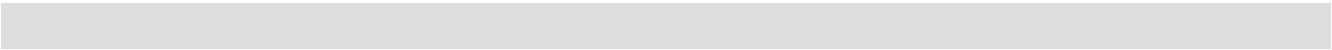


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Introduction

About Warnings

This manual contains many **DANGER**, **WARNING**, and **CAUTION** indicators concerning the consequences of failure to use, assemble, maintain, store, inspect and dispose of a Bosch-equipped eBike in a safe manner.

- The combination of the safety alert symbol and the word **DANGER** indicates a hazardous situation that, if not avoided, will result in death or serious injury.

- The combination of the safety alert symbol and the word **WARNING** indicates a hazardous situation that, if not avoided, could result in death or serious injury.
- The combination of the safety alert symbol and the word **CAUTION** indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

General Warnings



Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in death or serious injury.

Save all safety warnings and instructions for future reference.

The term **eBike battery** used in these operating instructions refers to all original Bosch eBike batteries from the system generation **the smart system**.

- **Read ALL accompanying manuals before riding the bike for the first time.** Your Bosch Drive System comes with additional manuals and documents provided by the manufacturer of the bicycle and other components. Failure to read and understand safety information can result in death or serious injury.

WARNING

- **This manual contains important safety, performance and service information.** Read it before you take the first ride on your new bicycle, and keep it for reference. The manual can also be found online at www.bosch-ebike.com.
- **This manual is intended to be read together with the separate user manual provided with your bicycle.** Be sure to read all provided documents including labels on the product before your first ride.

- **Take responsibility for your own SAFETY.** If you have any questions or do not understand something, consult with your dealer or the bicycle or component manufacturer.

- **Some eBike accessories may present a choking hazard to small children.** Keep these accessories away from children.

CAUTION

- **The Bosch Drive System adds weight to your bicycle which you may not be used to lift.** Avoid injury, use proper lifting techniques.

Using your Manual

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

Graphics

The bicycle shown in this manual may differ slightly from your bicycle, but will be similar enough to help you understand our instructions.

RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the bicycle will travel when going forward. When you see a broken line (-----), the item referred to is hidden from view.

Operating the Control Unit

Safety instructions



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

fire and/or serious injury.

Save all safety warnings and instructions for future reference.

The term **eBike battery** used in these operating instructions refers to all original Bosch eBike batteries from the system generation **the smart system**.

The terms **drive** and **drive unit** used in these operating instructions refer to all original Bosch drive units from the system generation **the smart system**.

- ▶ **Read and observe the safety warnings and instructions in all operating instructions of the eBike components and your eBike.**
- ▶ **Do not allow yourself to be distracted by the control unit's display, particularly by text overlays shown according to the situation.** The display of riding information does not absolve the rider of the need to exercise due caution. If you do not focus exclusively on the traffic, you risk being involved in an accident. If you want to change settings on your control unit, beyond just changing the riding mode, stop cycling to do so.
- ▶ **Do not attempt to secure the display or control unit while riding.**
- ▶ **Be aware that by selecting the drive mode you will also influence the amount of motor support from your bike.** Choose a drive mode that fits your cycling skills, test and familiarize yourself with drive modes and features in each mode before use.
- ▶ **Do not enter information or make selections while riding.** Interacting with the display or control unit while riding can lead to accidents causing serious injury or death. You must observe road and traffic conditions, and comply with traffic laws at all times.
- ▶ **Do not activate walk assistance function while riding on the bike.** Only use walk assistance function when pushing the eBike.
- ▶ **The walk 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 walk assistance.
- ▶ **When the walk assistance is activated, the pedals may turn at the same time.** When the walk assistance function is activated, make sure that there is enough space between your legs and the turning pedals to avoid the risk of injury.
- ▶ **When using the walk assistance, make sure that you can control the eBike and that you can hold it securely at all times.** Under certain circumstances, the walk assistance may stop (e.g. if the pedals hit an obstacle or if you accidentally let go of the button on the control unit). The eBike may suddenly move backwards onto you or tip up. This poses a particular risk for you if there is an additional load. When using the walk assistance, do not bring the eBike into situations in which you cannot hold the eBike using your own strength.
- ▶ **Do not stand your eBike upside down on its handlebars and saddle if the control unit or its holder protrude from the handlebars.** This may irreparably damage the control unit or the holder.
- ▶ **Do not connect a charger to the eBike battery if the control unit or the display reports a critical error.** This may result in damage to your eBike battery. The eBike battery may catch fire, thereby resulting in serious burns and other injuries.
- ▶ **Caution lithium battery!** Do not store batteries in an environment with extremely high temperatures or extremely low air pressure, this can lead to an explosion or leakage of flammable liquids or gases. Do not dispose the battery in your regular household trash or a public trash receptacle. Batteries

that enter the regular waste stream can be damaged, leading to a fire resulting in serious injury, death, property damage and environmental contamination. Recycle the battery at an authorized recycling center or take them to a local household hazardous waste disposal facility.

- ▶ **The control unit features a wireless interface. Local operating restrictions, e.g. in airplanes or hospitals, must be adhered to.**
- ▶ **Caution!** When using the control unit with *Bluetooth®*, this may cause interference that affects other devices and systems, airplanes and medical devices (e.g. pacemakers, hearing aids). Similarly, the possibility that this may cause damage to humans and animals in the immediate vicinity cannot be completely excluded. Do not use the control unit with *Bluetooth®* in the vicinity of medical devices, gas stations, chemical plants, areas with a potentially explosive atmosphere or on blast sites. Do not use the control unit with *Bluetooth®* in airplanes. Avoid using the device in close proximity to your body over an extended period of time.
- ▶ The *Bluetooth®* wordmark and its logos are the registered trademarks and property of Bluetooth SIG, Inc. Any use of this wordmark/these logos by Robert Bosch GmbH, Bosch eBike Systems is under license.
- ▶ **Observe all national regulations which set out the approved use of eBikes.**

Safety warnings for charging the battery inside the control unit

- ▶ **Only charge the control unit with USB power source (5 V, 600 mA max) and USB cable rated at least 600 mA.** Using USB power source or USB cable not appropriately rated for the application may result in fire, explosion or personal injury.
- ▶ **Charge the control unit in temperatures above +32 degrees F (0 degrees C) and below +104 degrees F (40 degrees C). Store control unit in locations where temperatures will not exceed 104 degrees F (40 degrees C).** This is im-

portant to prevent serious damage to the battery in the control unit.

- ▶ **Do not expose control unit to fire or excessive temperature.** Exposure to fire or temperature above 212 °F (100 °C) may cause explosion.
- ▶ **Do not recharge the control unit (via USB port) in damp or wet environment.** Water entering control unit may result in electric shock or fire.
- ▶ **Never submerge control unit in fluid of any kind or allow fluid to enter them.** Corrosive or conductive fluid (such as seawater or industrial chemical or bleach containing products, etc.) can cause short circuit which may result in fire, personal injury and property damage.
- ▶ **Battery leakage may occur under extreme usage or temperature conditions. Avoid contact with skin and eyes.** The battery liquid is caustic and could cause chemical burns to tissues. If liquid comes in contact with skin, wash quickly with soap and water. If the liquid contacts your eyes, immediately flush eyes with water for a minimum of 15 minutes and seek medical attention.
- ▶ **Before each use, check the control unit, cable and plug.** If damage is detected, do not use the control unit. Damaged control unit, charging cables and plugs increase the risk of a fire, explosion and personal injury.
- ▶ **Do not disassemble control unit.** No user serviceable part inside. Incorrect reassembly or damage may result in fire or explosion.

Safety instructions for button/coin cells



⚠ WARNING

INGESTION HAZARD:

This product contains a button cell or coin battery. **DEATH** or serious injury can occur if ingested. A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.

KEEP new and used batteries **OUT OF REACH of CHILDREN.**

Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.

Even used batteries may cause severe injury or death. Call a local poison control center for treatment information.

Do not force discharge, recharge, disassemble, heat above 104 °F (40 °C) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

This product uses a battery that can be replaced, though the coin cell battery inside the battery is not user replaceable.

Ensure the batteries are installed correctly according to polarity (+ and -).

Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.

Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.

Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

► **Do not damage the button/coin cell and or take the button/coin cell apart.** The button/coin cell may leak, explode, catch fire and cause personal injury.

► **Do not allow damaged button/coin cells to come into contact with water.** Leaking lithium may mix with water to create hydrogen, which could cause a fire, an explosion, or personal injury.

NOTICE: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device must not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

NOTICE: Changes or modifications made to this equipment not expressly approved by the Robert Bosch GmbH may void the FCC authorization to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiofrequency radiation exposure Information:

The radiated output power of the device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment into portable exposure conditions without distance restrictions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Notice (Canada)

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

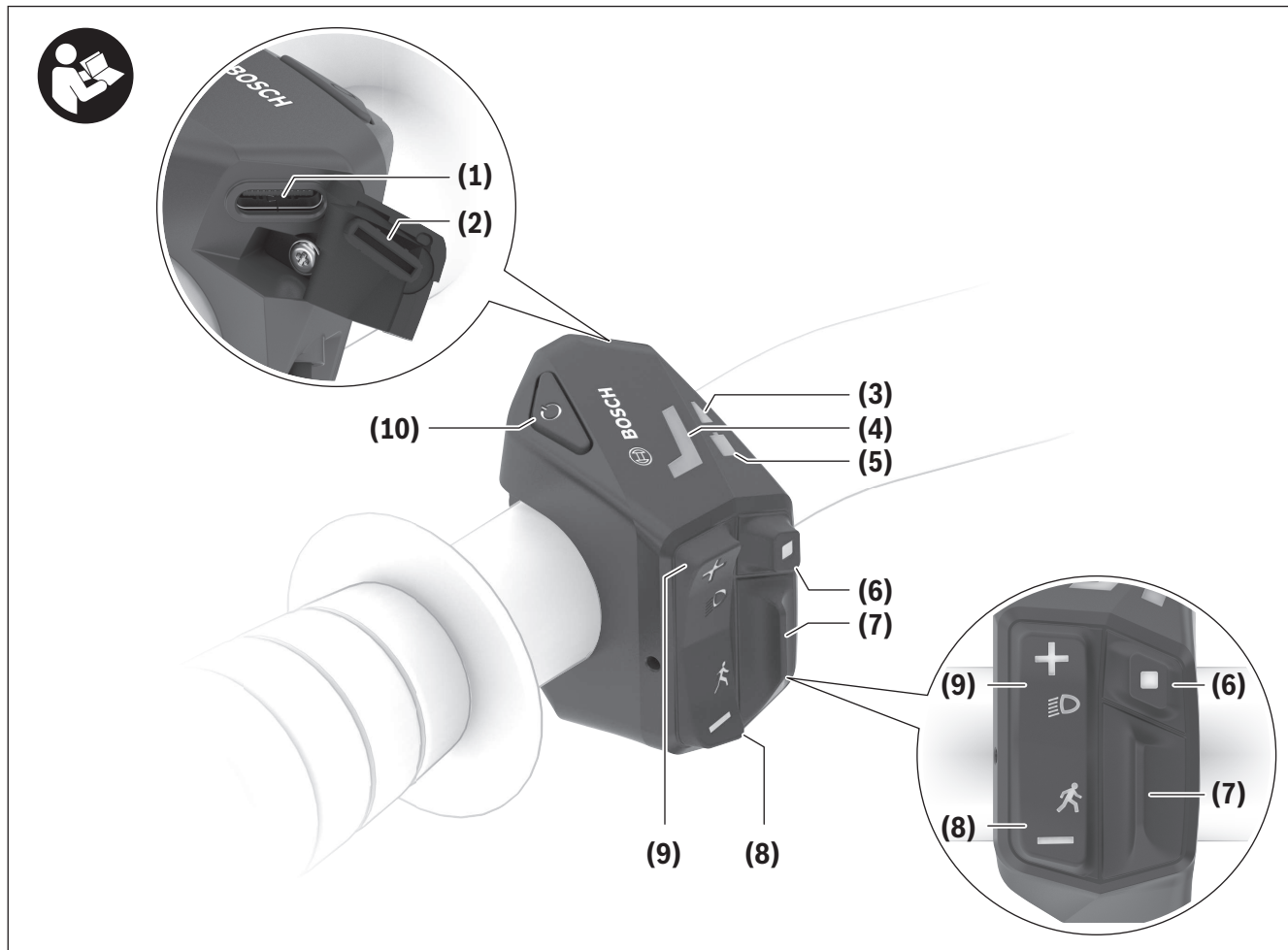
This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment into portable exposure conditions without distance restrictions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Privacy notice

When connecting the eBike to the **Bosch DiagnosticTool 3** or when exchanging eBike components, technical information about your eBike (e.g. bicycle manufacturer, model, bike ID, configuration data) as well as regarding the use of the eBike (e.g. total travel time, energy consumption, temperature) is transmitted to Bosch eBike Systems (Robert Bosch GmbH) for processing your request, in service cases and for the purposes of product improvement. You can find further information about data processing at www.bosch-ebike.com/privacy-full.

Product description and specifications

Product Features



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

- (1)** Charging connection
- (2)** Protective cap for charging connection
- (3)** ABS LED (optional)/ambient light sensor
- (4)** Riding mode LED
- (5)** Battery charge indicator of the eBike battery
- (6)** Select button

- (7)** Button for scrolling on to the right/scrolling back to the left
- (8)** Button for reducing the assistance level -/ walk assistance/hill-start assist
- (9)** Button for increasing the assistance level +/ bicycle lights
- (10)** ON/OFF button

Intended use

The **LED Controller** control unit is designed for controlling an eBike/display from **the smart system** generation of systems.

You can also use it to control the **eBike Flow** app.

In order to be able to use the control unit to its fullest extent, a compatible smartphone with the **eBike Flow** app is required.

You can connect the **LED Controller** control unit with your smartphone via *Bluetooth®*.



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

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

Technical Data

Control unit		LED Controller
Product code		BRC3610
Max. charging current of USB port ^{A)}	mA	600
USB port charging voltage ^{A)}	V	5
USB charging cable ^{B)}		USB Type-C ^{C)}
Charging temperature	°F	+32 to +104
	°C	0 to +40
Operating temperature	°F	+23 to +104
	°C	-5 to +40
Storage temperature	°F	+50 to +104
	°C	+10 to +40
Charging connection		USB Type-C ^{C)}
Internal lithium-ion battery (1 × ICR1254)	V	3.85
	mAh	83
Protection rating ^{D)}		IP55
Dimensions	in	1.1 × 2.05 × 1.7
	mm	27 × 52 × 42
Weight	lbs	0.06
	g	28
Bluetooth® Low Energy 5.0		
– Frequency	MHz	2400–2480
– Transmission power	mW	1

A) Information about charging the **LED Controller** control unit

B) Not included with the product as standard

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

D) only applies when the protective cap of the charging port is closed

The license information for the product is available at the following Internet address: www.bosch-ebike.com/licences

Operation

Requirements

The eBike can then only be switched on when the following requirements are met:

- A sufficiently charged eBike battery is inserted (see operating instructions for the eBike battery from **the smart system** generation of systems).
- The speed sensor, if provided, is connected properly (see operating instructions for the drive unit from **the smart system** generation of systems).

Note: Improvements and added functionality are regularly introduced through software updates. Therefore, the displays and functions shown here may differ from what is actually displayed.

Control unit power supply

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

If the state of charge of the internal battery of the control unit is very low and the eBike cannot be switched on after a long period of inactivity, you can charge the internal battery of the control unit via the charging connection **(1)** with a USB Type-C® cable using a power bank or another suitable power source (charging voltage **5 V**; charging current max. **600 mA**).

The control unit's internal battery is charged via an external supply that meets the ES1 and PS2 limit values in accordance with IEC 62368-1.

Always close the protective cap **(2)** on the charging connection **(1)** so that no dust or moisture can enter.

Charging External End Devices

The charging port **(1)** is also designed for charging compatible end devices.

Note: Please note that, depending on how the eBike components are assembled, charging may not be possible or only to a limited extent.

To do this, switch on the eBike, open the protective cap **(2)** of the charging port **(1)** and connect the end device.

- **The USB Type-C® cable can get caught in the front wheel while riding. This can lead to accidents with unforeseeable consequences.** Before traveling, make sure that all cables are packed away neatly.

When charging, observe the following instructions:

- Only charge in dry conditions.
- Only charge one end device at a time.
- Check that the charging connection is clean before connecting it.
- Make sure that the end device is compatible with the specified values (current and voltage).
- Depending on the charging power, having end devices connected may impact the range.
- Always close the protective cap **(2)** on the charging connection **(1)** when you are not using it to charge external end devices so that no dust or moisture can enter.

Switching the eBike on/off

To **switch on** the eBike, briefly press the ON/OFF button **(10)** on the **LED Controller** control unit. After the starting animation, the state of charge of the eBike battery is displayed in color with the battery charge indicator **(5)** and the set riding mode with the **(4)** display. The eBike is ready to ride.

The display brightness is controlled by the ambient light sensor **(3)**. Therefore, do not cover the ambient light sensor **(3)**.

The drive is activated as soon as you start pedaling (except in the **OFF** riding mode). The drive power varies depending on the riding mode set.

As soon as you stop in normal operation, press the pedals, or as soon as you have reached a speed of **20/28 mph (32/45 km/h)**, the assistance will be switched off by the drive. The drive is automatically reactivated as soon as you press the pedals and the speed is below **20/28 mph (32/45 km/h)**.

To **switch off** the eBike, briefly press the on/off button **(10)** (< 3 s). The battery charge indicator of

the eBike battery **(5)** and the riding mode LED **(4)** go out.

If no power is requested from the drive for approx. **10** minutes (e.g. due to the eBike being stationary) and no button is pressed, the eBike switches off automatically.

Note: If the **eBike Flow** app is open in the foreground, the eBike will not switch off automatically.

Battery charge indicator of the eBike battery

The eBike battery's state of charge is indicated by different colors on the battery charge indicator **(5)**. If the battery charge indicator **(5)** changes color while riding, this is indicated by brief flashing.

Battery charge indicator Capacity	
Green	100 % to 51 %
Yellow	50 % to 31 %
Orange	30 % to 11 %
Red	10 % to 1 %
Flashing red	Reserve or empty

If the eBike battery is being charged, the battery charge indicator of the eBike battery **(5)** flashes. Outside of the eBike, the eBike battery's state of charge can be seen from the LEDs on the eBike battery itself.

Selecting the Riding Mode

You can set how much the eBike drive assists you while pedaling on the control unit using the reduce assistance level – **(8)** and increase assistance level **+** **(9)** buttons. The riding mode can be changed even while cycling, and is displayed in color.

Additional riding modes can be activated via the **eBike Flow** app or at your service center if this is provided by the bicycle manufacturer.

Note: The riding modes available depend on the respective drive unit. The intensity and duration of the assistance vary depending on the riding mode.

Riding mode	Notes
OFF	Drive assistance is switched off. The eBike can just be moved by pedaling, as with a normal bicycle.
ECO	Effective assistance with maximum efficiency, for maximum range
ECO+	Range-optimized riding mode that only switches on the drive assistance above a certain rider performance; for natural cycling and for a maximum range
TOUR	Steady assistance, long range for touring
TOUR+	Dynamic assistance for natural, sporty cycling
eMTB^{A)}	Optimal assistance whatever the terrain, rapid acceleration when starting from a standstill, improved dynamics and top performance including "Extended Boost"
eMTB+^{A)}	Dynamic support to the maximum – at the perfect level and with up to 100 % more "Extended Boost" – for even more fun on trails
SPORT	Powerful assistance, for mountain biking and for cycling in urban traffic
TURBO	Maximum assistance even at a high cadence, for biking sports
AUTO	The assistance adapts dynamically to the riding situation.
RACE^{A)}	Maximum assistance on the eMTB race-track; very quick response and maximum "Extended Boost" for the best possible performance in competitive situations
CARGO	Steady, powerful assistance for safely transporting heavy weights
SPRINT	Dynamic assistance according to cadence – for athletic eGravel and eRoad cycling with rapid sprints and frequent ascents

A) The "Extended Boost" provides a controlled pushing force over a short distance once pedaling is stopped.

Adjusting the Riding Mode

The riding modes can be adapted within certain limits using the **eBike Flow** app. This gives you the option of adjusting your eBike to your personal requirements.

It is not possible to create a completely new riding mode. You can only adjust the riding modes that have been enabled by the bicycle manufacturer on your system.

In addition, restrictions in your country may mean that it is not possible to adjust a particular riding mode.

The following parameters are available for making adjustments:

- Assistance in relation to the base value of the riding mode (within the legal requirements)
- Drive response
- Top limit speed (within the legal requirements)
- Maximum torque (within the limits of the drive)

Note: Please ensure that your modified riding mode retains the position, name and color on all displays and controls.

Interaction of the drive unit with the gear-shifting

You should shift through gears on an eBike in the same manner as when using a normal bicycle (observe the operating instructions of your eBike with regard to 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.

For this reason, follow the gear change recommendations shown on your display.

Switching bike lights on/off

Before starting each journey, check that your bike lights are working correctly.

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

Switching the walk assistance on/off

The walk assistance can make it easier for you to push the eBike. The maximum speed of the walk assistance is **2.5 mph (4 km/h)**. The bicycle manufacturer can adjust the default so that it is lower and, if necessary, it can also be adjusted by a service center.

- **The walk 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 walk assistance.
- **If the selected gear is too high, the drive unit may not be able to move the eBike or activate the roll-away lock.**

Note: The walk assistance function is deactivated in the **OFF** riding mode.

To **activate** walk assistance, press and hold the walk assistance button **(8)** for more than 1 s. The eBike's battery charge indicator **(5)** goes out and the riding mode LED **(4)** flashes in the color of the set riding mode.

After activation, the drive begins to push.

If you release the walk assistance button **(8)**, walk assistance stops. You can reactivate walk assistance straight away by pressing the walk assistance **(8)** button within 10 s.

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

Walk assistance is always ended if

- The rear wheel jams,
- The bicycle cannot move over ridges,
- A body part is blocking the bike crank,
- An obstacle continues to turn the crank,
- You start pedaling,
- The increase assistance level **+/bicycle lights (9)** button or **ON/OFF button (10)** is pressed.

Walk assistance has a roll-away lock, i.e. even after walk assistance has been used, rolling backwards is actively curbed by the drive for a few seconds, and you cannot push the eBike backwards or can only do so with difficulty.

The roll-away lock is immediately deactivated by pressing the increase assistance level **+/bicycle lights (9)** button.

The walk assistance function is subject to local regulations; the way it works may therefore differ from the description above. It can also be deactivated.

Switching Hill-Start Assist On and Off

Hill-start assist makes it easier to start riding on hills.

To **activate** hill-start assist, place your foot on the pedal so that your eBike detects that you would like to start riding. Then press the hill-start assist button **(8)** for more than 1 s.

Note: Follow the order for actions when activating the hill-start assist button. The walk assistance will activate if you first press the hill-start assist button **(8)** and then place your foot on the pedal.

Once you have successfully activated hill-start assist, let go of the hill-start assist button **(8)** again. Once you have safely started riding, the hill-start assist will deactivate automatically and you will continue riding in the set riding mode. You can end hill-start assist at any time by taking your foot off the pedal.

You can then reactivate hill-start assist within 10 s by placing your foot back on the pedal. This will be shown on your display. It is not necessary to press the hill-start assist button **(8)** again. If you press the hill-start assist button **(8)** within 10 s, the countdown will be reset once and you will again have 10 s to activate hill-start assist.

Hill-start assist has a roll-away lock, i.e. even after hill-start assist has been used, rolling backwards is actively curbed by the drive for a few seconds, and this prevents the eBike from rolling backwards unintentionally.

The hill-start assist 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 eBike is equipped with a Bosch eBike ABS from **the smart system** generation of systems, the ABS LED **(3)** lights up when the eBike is started.

After moving off, the ABS internally checks its functionality and the ABS LED goes off.

In the event of a fault, the ABS LED **(3)** lights up, together with the orange flashing riding mode LED **(4)**.

You can acknowledge the error with the select button **(6)** and the flashing riding mode LED **(4)** will go out. While the ABS LED **(3)** is lit up, the ABS is not in operation.

For details on the ABS and how it works, including how it acts during a trick, 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** app is required.

Connection to the app occurs via a *Bluetooth®* connection.

Switch on the eBike and wait for the start animation to finish. Do not ride the eBike.

Start *Bluetooth®* pairing by pressing and holding (> 3 s) the ON/OFF button **(10)**. Release the ON/OFF button **(10)** as soon as the eBike's battery charge indicator **(5)** flashes blue to indicate the pairing process is underway.

Confirm the connection request in the app.

Software updates

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

Software updates are transferred to the control unit in the background of the app as soon as it is connected to the app. During the update process, progress is indicated by the riding mode LED **(4)** flashing green. The eBike is then restarted.

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

Activity tracking and digital eBike garage

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 to a user account.

You can add a total of six eBikes to one user account in the **eBike Flow** app.

eBike Lock

The **<eBike Lock>** can be set up for any eBike via the **eBike Flow** app under **<Settings>** → **<Lock & Alarm>**. In the process, a key for unlocking the eBike

is saved on the smartphone and/or the **Kiox 300/ Kiox 500** display.

The **<eBike Lock>** is automatically enabled in the following cases:

- The eBike is switched off via the control unit
- The eBike is switched off automatically

If the eBike is switched on and the smartphone is connected to the eBike via *Bluetooth®*, or the pre-set display is fitted in the holder, the eBike will be unlocked.

<eBike Lock> is linked to your **user account**.

If you lose your smartphone, you can log in to your user account on the **eBike Flow** app using another smartphone and then unlock the eBike.

If the display is lost, you can reset all the digital keys in the **<Lock & Alarm>** menu item in the **eBike Flow** app.

Caution! If you select a setting in the app that could have negative consequences in combination with the **<eBike Lock>** (e.g. deleting your eBike or user account), you will be shown warning messages beforehand. **Please read through these thoroughly and adhere to the warnings that are issued (e.g. before deleting your eBike or user account).**

Setting up <eBike Lock>

In order to be able to set up the **<eBike Lock>**, the following conditions must be fulfilled:

- The **eBike Flow** app has been installed.
- A user account has been created.
- The eBike is not currently updating.
- The eBike is connected to the smartphone via *Bluetooth®*.
- The eBike is stationary.
- The smartphone is connected to the Internet.
- The eBike battery is sufficiently charged and the charging cable is not connected.

You can set up **<eBike Lock>** in the **eBike Flow** app under the **<Lock & Alarm>** menu item.

The drive unit of your eBike only provides support if the smartphone is connected to the eBike via

Bluetooth® or the display is placed in the holder when the eBike is switched on. If the smartphone is used as a key, your smartphone must have *Bluetooth*® switched on, and the **eBike Flow** app must be active in the background. When the **<eBike Lock>** is activated, you can continue to use your eBike without assistance from the drive unit.

Compatibility

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

How it works

In combination with the **<eBike Lock>**, the smartphone and the display work like a key for the drive unit. The **<eBike Lock>** is activated by switching off the eBike. When switching on, the eBike checks if any pre-set key is available. A white LED flashes on the **LED Controller** control unit, and a lock symbol is shown on the display.

Note: The **<eBike Lock>** alone does not provide adequate theft protection; it is simply a supplement to a mechanical lock. The **<eBike Lock>** does not provide any form of mechanical lock for the eBike. Only the assistance from the drive unit is deactivated. The drive unit will be unlocked for as long as the smartphone is connected to the eBike via *Bluetooth*® or the display is placed in the holder.

If you want to give third parties temporary or permanent access to your eBike, share one of the pre-set digital keys (display/smartphone). As a result, the <eBike Lock> is still active. If you want to take your eBike to a service, the <eBike Lock> can be deactivated in the eBike Flow app in the <Settings> menu item. If you wish to sell your eBike, you will also need to delete the eBike from your user account in the eBike Flow app in the <Settings> menu item.

When the eBike is switched off, the drive unit will emit a "Lock" sound (i.e. an audio signal that is played **once**) to indicate that the assistance from the drive unit is switched off.

When the eBike is switched on, the drive unit will emit two "Unlock" sounds (i.e. an audio signal that is played **twice**) to indicate that the assistance from the drive unit is enabled again.

The "Lock" sound will help you determine whether or not the **<eBike Lock>** on your eBike is active. The audio signal is activated by default, but it can be deactivated in the **eBike Flow** app in the **<Locking sound>** menu item by selecting the lock symbol under your eBike.

Note: If you can no longer set up or switch off the **<eBike Lock>**, please contact your service center.

Replacing the Smartphone

1. Install the **eBike Flow** app on the new smartphone.
2. Log in with **the same** user account that was used to activate the **<eBike Lock>**.
3. The **<eBike Lock>** is displayed as set up in the **eBike Flow** app.

Flow+ subscription functions

For the following functions, a **Flow+ subscription** is required. Fees may be payable for this.

Information about **Flow+ subscription** and details on individual services can be found in the **eBike Flow** app or in the Bosch eBike Help Center on the website www.bosch-ebike.com/help-center.

Battery Lock

The **<Battery Lock>** can be set up for any eBike via the **eBike Flow** app under **<Settings>** → **<Lock & Alarm>**.

In addition to the drive unit, the eBike battery can be locked when the eBike is switched off using **<Battery Lock>**. The eBike battery will only be unlocked again when the pre-set key (smartphone and/or **Kiox 300/Kiox 500** display) is present when the eBike is switched on.

Share eBike

With the **eBike Flow** app, you can share your eBike and its digital functions with up to 5 other people. You remain in control of the settings, functions and

updates. The people you choose to share with can only use the digital functions preselected by you. In order for you to be able to share the eBike, “share eBike” must be registered to you in the **eBike Flow** app and you must hold an active **Flow+** subscription. The eBike software must be up to date. Under **<Settings>** in the **eBike Flow** app, you can create an invitation link and send this to the people you want to share with. Once they have accepted the invitation, they can connect the shared eBike with their own **eBike Flow** app user account. More information about this can be found in the **eBike Flow** app or in the Bosch eBike Help Center on the website www.bosch-ebike.com/help-center.

Troubleshooting

The control unit shows whether critical errors or less critical errors occur on the eBike.

The error messages generated by the eBike can be read via the **eBike Flow** app or by your service center.

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 indicated by the LEDs **(4)** and **(5)** flashing orange before changing to a continuous orange light. Pressing the select button **(6)** confirms the error and the LEDs **(4)** and **(5)** return to continuously displaying the color of the set riding mode.

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

Number	Troubleshooting
503009	Check your display, the cabling and any power consumers connected to the display. If the problem persists, please get in touch with your service center.
523003	Check that the rim magnet is firmly attached to the valve. Then restart your eBike and check the display after a short ride. If the problem persists, please get in touch with your service center.
523006	Check the rim magnet and spoke magnet, if present. Then, restart your eBike.
853201	If the problem persists, please get in touch with your service center.
523005	The indicated error numbers show that the sensors are struggling to detect the magnetic field.
514001	See whether you have lost the magnet while riding.
514002	If you are using a magnet sensor, check that the sensor and magnet have been properly installed.
514003	Also make sure that the cable to the sensor is not damaged.
514006	If you are using a rim magnet, make sure that you do not have any magnetic field interference in the vicinity of the drive unit.
650001	Check that the eBike battery is sitting correctly. Check the electrical contacts on the eBike battery and the eBike battery holder for signs of corrosion. If necessary, clean the contacts using a soft, damp cloth and leave to dry. Run an eBike update, if available, via the eBike Flow app. Restart your eBike. If the problem persists, please get in touch with your service center.
660001	Restart your eBike. If the problem persists, do not charge your eBike battery and do not continue to use it. Please contact a service center.
660002	Do not remove the eBike battery from the eBike. Connect the eBike battery to a charger and wait at least 10 s. Re-insert the eBike battery into the eBike. Restart your eBike.

Number	Troubleshooting
670001	Disconnect the charger from your eBike and from the mains power supply and wait at least 5 s. Then reconnect the charger to restart the charging process. Notes: – Do not connect the charger's mains cable to the mains power supply while your eBike or the eBike battery are still starting up/shutting down. – Do not press the on/off button on the eBike battery while the mains cable of the charger is being connected or is already connected to the mains power supply. – Do not insert and remove the charger plug in quick succession. If the problem persists: – Use another charger in order to rule out charger errors. – Run an eBike update, if available, via the eBike Flow app. If the problem occurs while charging on the go: – Check whether the mains power supply meets the input parameters on the charger's type plate. – If the problem persists, please get in touch with your service center.
680007	The indicated error numbers show that the eBike battery is outside of the permissible operating temperature. The charging of the eBike battery is interrupted. As soon as the operating temperature returns to the permissible range, the charging process will start again.
680009	
680012	
680014	
680016	
680017	
903002	Try to ride your eBike to a different location for better signal.
903005	If the problem persists, please get in touch with your service center.
112000	Log back in to the eBike Flow app and connect your smartphone. If the problem persists: – Reinstall the app and then start your eBike. – Then connect your smartphone with your eBike. If the problem persists: – Please contact your service center.
1B7213	Run a software update in the eBike Flow app. Restart your eBike.
1B7613	If the problem persists, please get in touch with your service center.
1B7713	
1C7413	
1C7513	
1C7713	
5F0200	

Number	Troubleshooting
F10005	To rectify the software incompatibility, all eBike components must have the latest software. – Connect all components belonging to the eBike, including the removable and optional components. – Run a software update with the eBike Flow app or ask a service center to do so. – Restart your eBike.

Critical errors

Critical errors are indicated by the LEDs **(4)** and **(5)** flashing red, followed by them lighting up continuously. If a critical error occurs, follow the instructions in the table below.

Number	Instructions
6A0000	Connect all components belonging to the eBike, including the removable and optional components. Run a software update. Restart your eBike. If the problem persists, please get in touch with your service center.
F10004	Connect all components belonging to the eBike, including the removable and optional components. Run a software update. All components require the latest software version. Restart your eBike. If the problem persists, please get in touch with your service center.
890000	– Acknowledge the error code. – Restart the eBike. If the problem persists: – Acknowledge the error code. – Run the software update. – Restart the eBike. If the problem persists: – Please contact a service center.

Maintenance and Service

Maintenance/cleaning

⚠ WARNING

- ▶ **Do not open any of the components. Service should only be carried out at an authorized Bosch eBike dealer.** Failure to follow above warning can cause death or serious injury. Refer to your bicycle manual or component manual for all non-Bosch drive system components.
- ▶ **Do not submerge your eBike components in water, or wash with pressurized hose.** Your Bosch drive unit is designed to be water tight to rain water or non-pressure hose washing.
- ▶ **Do not paint any components of the Bosch drive system as they may cause premature failure of the component.**

The control unit must not be cleaned with pressurized water.

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

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

- ▶ **This product uses a battery that can be replaced, though the coin cell inside this battery is not user replaceable.**
- ▶ **Please make sure you have all repairs carried out by a service center.**

Note: If you are handing in your eBike to a service center for maintenance, it is recommended that you deactivate **<Lock & Alarm>**.

Note: If you do not use the **LED Controller** control unit for a long time, charge it in accordance with (see "Control unit power supply", page English – 10).

After-sales service and advice on using products

If you have any questions about the eBike and its components, contact a service center.

For contact details of service centers, please visit www.bosch-ebike.com.

More information



More information and videos about the eBike components and their functions can be found in the Bosch eBike Help Center.

Recycling Program



The individual eBike components as well as accessories and packaging should be recycled in an environmentally friendly

manner.

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



You may recycle your Bosch battery pack by calling 1.800.822.8837.