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BOSCH BRC3100 System Controller Owner's Manual

Contents

BOSCH

BRC3100 System Controller

Product Information: System Controller | Mini Remote

The System Controller and Mini Remote are products of Robert Bosch GmbH, a German-based company that specializes in engineering and technology solutions. These products are designed to be used in conjunction with Bosch eBike Systems. The System Controller is available in two variants: BRC3100 and BRC3300. Both variants allow riders to control the settings of their Bosch eBike System, including the assist level, lights, and display settings. The Mini Remote is a small and convenient accessory that allows riders to switch between assist levels without taking their hands off the handlebars. This manual contains important safety, performance, and service information that should be read and understood before using the product. It is recommended to also read the user manual provided by the bicycle manufacturer.

Product Usage Instructions

Before using the System Controller and Mini Remote, it is important to read and understand the safety warnings and instructions provided in the manual. Failure to do so may result in serious injury or death.

Both variants of the System Controller allow riders to control the settings of their Bosch eBike System. To use the System Controller:

1. Ensure that your bike is turned on and that the System Controller is properly connected.
2. Press the power button on the System Controller to turn it on.
3. Use the buttons on the System Controller to adjust the assist level, lights, and display settings as desired.

The Mini Remote is designed to allow riders to switch between assist levels without taking their hands off the handlebars. To use the Mini Remote:

1. Ensure that your bike is turned on and that the Mini Remote is properly connected.
2. Press the button on the Mini Remote to switch between assist levels.

It is important to read all accompanying manuals and documents provided by the bicycle and component manufacturers before using the product. Proper lifting techniques should be used when lifting the eBike, as the Bosch Drive System adds weight to the bike.

If there are any questions or concerns about using the System Controller or Mini Remote, it is recommended to consult with the dealer or the bicycle/component manufacturer. Keep all safety warnings and instructions for future reference.

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 battery pack used in these operating instructions refers to all original Bosch eBike battery packs.
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 lifting. Avoid injury, and 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 your Bosch Drive System

Safety Instructions

Read all the safety information and instructions. 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 pack used in these operating instructions refers to all original Bosch eBike battery packs.

- Read and observe the safety warnings and instructions in all operating instructions of the eBike system and your eBike.
- Do not attempt to fix the display or remote control 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.
- When using push assistance, ensure that you can always control the eBike and hold it securely. The push assistance can be suspended under certain conditions (e.g. obstacle on the pedal or accidentally slipping off the button of the operating unit). The eBike can suddenly move back towards you or start to tip. This poses a particular risk for the user if there is an additional load. When using the push assistance on the eBike, do not place the eBike in situations in which you cannot hold the eBike by yourself.
- Do not stand your bicycle upside down on its handlebars and saddle if the control unit or its holder protrudes from the handlebars. This may irreparably damage the control 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 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® 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® 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.
- Before using the System Controller while riding, make sure to familiarize yourself with System Controller controls and functions by reviewing the operating instructions in this user manual. Practice riding under traffic-free conditions and make sure that you are comfortable using the System Controller before using it in traffic.
- Do not use the System Controller while riding if you are not comfortable doing so. Do not allow yourself to be distracted by the System Controller. Please note that distracted riding can lead to serious observe
  road and traffic conditions and comply with all applicable traffic laws at all times.
- Please note that certain State or local laws may require that class III eBikes must be equipped with a functioning speedometer that displays speed in miles per hour. Riders must be aware of any and all applicable rules and regulations related to the operation or use of class III eBikes in any applicable jurisdictions before

operating or otherwise using this product.

Safety instructions for button/coin cells

- WARNING! Ensure that the button/coin cell is kept out of the reach of children. Button/coin cells are dangerous.
- Button/coin cells must never be swallowed or inserted into any other part of the body. If you suspect that someone has swallowed a button/ coin cell or that a button/coin cell has entered the body in another way, seek medical attention immediately. Swallowing button/coin cells can result in severe internal burns and death within two hours.
- Ensure that button/coin cell replacement is carried out properly. There is a risk of explosion.
- Only use the button/coin cells listed in this operating manual. Do not use any other button/coin cells or other forms of electrical power supply.
- Do not attempt to recharge the button/coin cell and do not short-circuit the button/coin cell. The button/coin cell may leak, explode, catch fire and cause personal injury.
- Remove and dispose of drained button/coin cells correctly. Drained button/coin cells may leak and cause personal injury or damage the product.
- Do not overheat the button/coin cell or throw it into fire. The button/coin cell may leak, explode, catch fire and cause personal injury.
- Do not damage the button/coin cell and or take the 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:
- This device must not cause harmful interference, and
- 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 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 the 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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Notice (Canada)

This device contains license-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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 **www.bosch-ebike.com**.

Intended Use

The System Controller and Mini Remote operating units are designed to control a Bosch eBike system and to control an on-board computer. You can also use it to change the assistance level in 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.
Using the eBike Flow app, a Bluetooth® connection can be established between the smartphone and the eBike system, between the smartphone and System Controller, and between System Controller and Mini Remote.
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.

System Controller/Mini Remote Product Features

All illustrations of bike parts except for the drive unit, on-board computer including operating unit, speed sensor and the corresponding holders are schematic and may differ on your eBike.
The numbering of the components shown refers to the illustrations on the graphic pages at the beginning of the manual.

1. Mini Remote operating unit (optional)

2. Control unit System Controller

3. LED indicator lamp

4. Button for increasing support level +/ bike lights

5. Select button

6. Button for decreasing support level –/ walk assistance

7. Fastening screw for holder

8. Holder

9. Rubber insert/battery holder

10. Assistance level LED

11. ABS LED (optional)/ambient light sensor

12. On/off button

13. LEDs for battery charge indicator

14. Mode button

TECHNICAL DATA

Control unit	System Controller		
Product code			BRC3100
Operating temperature		°F	23 to 104
Storage temperature		°F	50 to 104
Protection rating			IP54
Dimensions		in	3.5 × 1.1 × 1.1
Weight		lb	0.08

– Frequency	MHz	2400–2480
– Transmission power	mW	≤ 1

Control unit	Mini Remote		
Product code			BRC3300
Operating temperature		°F	23 to 104
Storage temperature		°F	50 to 104
Battery			1× CR1620
Protection rating			IP54
Dimensions		in	1.6 × 1.5 × 0.9
Weight		lb	0.08

– Frequency	MHz	2400–2480
– Transmission power	mW	≤ 1

The license information for the product is available at the following
Internet address: **https://www.bosch-ebike.com/licences**
FCC ID: 2AWRC-BRC3300
IC: 26294-BRC3300
HVIN: BRC3300

Operation

Requirements
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 (System Controller)
If a sufficiently charged eBike battery is inserted into the eBike and the eBike system is switched on, then the control unit battery is powered and charged by the eBike battery.
Please contact your bicycle dealer if the operating unit battery is defective.
Operating unit (Mini Remote) power supply
The Mini Remote operating unit is supplied with voltage by a CR1620 button/coin cell.
Replacing the battery (Mini Remote)
If the battery in the Mini Remote (1) operating unit is low, the LED indicator lamp (3) lights up orange. To replace the battery, unscrew the Mini Remote (1) operating unit from the handlebars. Remove the rubber insert (9). This also functions as the battery holder. Remove the used battery and insert a new CR1620 battery in the rubber insert (9). Push the battery and the rubber insert (9) into the Mini Remote(1) operating unit. If the battery is seated correctly, the LED indicator lamp (3) flashes green for 10 s. Then secure the Mini Remote (1) operating unit back onto the handlebars.
Note: The connection to the System Controller is not interrupted when the battery is replaced. You can obtain the batteries recommended by Bosch from your bicycle dealer.
Switching the eBike system on/off
To switch on the eBike system, briefly press the on/ off button (12). After the start animation, the state of charge of the battery is displayed in color with the battery charge indicator (13) and the set assistance level with the (10) display. The eBike is ready to ride. The display brightness is controlled by the ambient light sensor (11). Therefore, do not cover the ambient light sensor (11).
The drive is activated as soon as you start pedaling (except at assistance level OFF). The motor output depends on the settings of the assistance level.
As soon as you stop pedaling when in normal operation, or as soon as you have reached a speed of 20/28 mph, the eBike drive unit switches off the assistance.
The drive is automatically re-activated as soon you start pedaling again and the speed is below 20/28 mph.
To switch off the eBike system, press the on/off button (12) briefly (< 3 s). The battery charge indicator (13) and the assistance level LED (10) 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 (13) 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 (13) 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 color:

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 (13) flashes.

Setting the assistance level

On the operating unit, you can set the level of assistance you want the eBike drive to provide you with while

pedaling.

Mini Remote: Briefly press (< 1 s) the buttons to increase assistance + (4) or decrease assistance – (6) in order to increase or decrease the assistance level accordingly.

System Controller: Briefly press (< 1 s) the mode button (14) to increase assistance.

Press the mode button (14) for longer than 1 s to decrease the assistance.

The assistance level can be changed at any time, even while cycling, and is displayed in color.

Level	Notes
OFF	Motor support is switched off. The eBike can just be moved by pedaling, as with a normal bicycle.
ECO	Effective support with maximum efficiency, for maximum range
TOUR	Steady support, long-range for touring
TOUR+	Dynamic support for normal riding and biking sports
eMTB/ SPORT	Optimal support whatever the terrain, rapid acceleration when starting from a standstill, improved dynamics and top performance
TURBO	Maximum support even at a high cadence, for sport cycling

Level	Notes
AUTO	The assistance is adapted dynamically to the riding situation.
RACE	Maximum support on the eMTB race course; very direct response behavior and maximum "Extended Boost" for the best possible performance in competitive situations
CARGO)	Steady, powerful support, to be able to transport heavyweights

The CARGO assistance level may also have a different designation. 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 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 that you briefly reduce the pressure on the pedals when changing gear. This will aid gear shifting and re-duce wear on the powertrain.

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

Switching bicycle lights on/off (Mini Remote only)

Before starting each journey, check that your bike lights are working correctly.
To switch the bicycle lights on and off, press the but-ton to increase the assistance level/bicycle lights (4) for longer than 1 s.
Switching the push assistance on/off
The push assistance aids you when pushing your eBike. The speed of this function depends on the se-lected gear and can reach a maximum of 2.5 mph.

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 (6) button for more than 1 s and keep it pressed. The battery charge indicator (13) 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 ac-tions 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 color to ice-blue.
If you release the (6) button, walk assistance is paused. You can reactivate walk assistance within 10 s by pressing the (6) 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 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 (4) button or on/off button (12) is pressed. Walk assistance has a roll-away lock, which means that even after successfully using walk assistance, the drive system actively brakes backwards rolling for a few seconds and you cannot push the eBike back-wards or can only do so with difficulty.

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

Establishing a smartphone connection
In order to be able to use the following eBike functions, a smartphone with the eBike Flow app is re-quired. Connection to the app occurs via a Bluetooth® connection.

1. Switch on the eBike system and do not start riding the eBike.
2. Begin Bluetooth® pairing by long pressing (> 3 s) the on/off button (12). Release the on/off but-ton (12) as soon as the lowest bar on the battery charge indicator (13) shows the pairing process by flashing blue.
3. Confirm the connection request in the eBike Flow 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 ac-tivities

cannot be recorded in the app. For location data to be recorded, you must be logged in as the user.

<eBike Lock>

<eBike Lock> can be activated for all users via the eBike Flow app. A key to unlock the eBike is saved on the smartphone for this purpose.

<eBike Lock> is automatically active in the following cases:

- When switching off the eBike system via the operat-ing unit
- When automatically switching off the eBike system
- By removing the on-board computer

The eBike is unlocked when the eBike system is switched on and the smartphone is connected with the eBike via Bluetooth®.
<eBike Lock> is connected to your user account. Should you lose your smartphone, you can log in via another smartphone using the eBike Flow app, and unlock your user account and the eBike.
Warning! If you select a setting in the app that leads to disadvantages for the <eBike Lock> (e.g. deletion of your eBike or user account), then you will first be shown warning messages. Please read through these thoroughly and adhere to the warnings that are issued (e.g. before deleting your eBike or user account).

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.
- No update is currently being carried out on the eBike.
- The eBike is connected to the smartphone via Bluetooth®.
- The eBike is stationary.
- The smartphone is connected to the Internet.
- The eBike rechargeable battery is sufficiently charged, and the charging cable is not connected.

You can set up <eBike Lock> in the eBike Flow app under the settings menu item.
You can deactivate the support of your drive unit with immediate effect by switching on <eBike Lock> in the eBike Flow app. Deactivation can only be can-celed if your smartphone is nearby when switching on the eBike system. Your smartphone must have Bluetooth® switched on for this, and the eBike Flow app must be active in the background. The eBike Flow app does not have to be opened. If <eBike Lock> is activated, you can also use your eBike with-out support from the drive unit.
Compatibility
<eBike Lock> is compatible with these Bosch eBike product lines:

Drive unit	Product line
BDU374x	Performance Line CX
BDU33xx	Performance Line

How it works
In conjunction with <eBike Lock>, the smartphone works in a similar way to a key for the drive unit.
<eBike Lock> becomes active when the eBike system is switched off. As long as the <eBike
Lock> eBike lock is active after switching on, this is indicated on the System Controller operating unit by flashing white and on the display computer with a padlock symbol.

Note: <eBike Lock> alone does not provide adequate theft protection; it is simply a supplement to a mechanical lock. <eBike Lock> does not provide any form of mechanical lock for the eBike. Only the assis-tance from the drive unit is deactivated. As long as the smartphone is connected to the eBike via Bluetooth®, the drive unit is unlocked.

If you give third parties temporary or permanent access to your eBike or want to bring your eBike in for a service, deactivate <eBike Lock> in the eBike Flow app under the settings menu item. If you want to sell your eBike, also delete the eBike from your user account in the eBike Flow app under the settings menu item.

If the eBike system 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.

Note: The audio signal will only be played if the system is switched on.

If the eBike system 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 helps you to recognize whether
<eBike Lock> is activated on your eBike. The audio signal is activated by default, it can be deactivated in the eBike Flow app under the settings menu item by selecting the lock symbol below your eBike.

Note: If you are no longer able to set up or switch off <eBike Lock>, please contact your bicycle dealer. Replacing eBike components and <eBike Lock>

Replacing the smartphone

1. Install the eBike Flow app on the new smartphone.
2. Log in using the same account with which you activated <eBike Lock>.
3. <eBike Lock> is displayed as set up in the eBike Flow app.

Replacing the drive unit

1. <eBike Lock> is displayed as deactivated in the eBike Flow app.
2. Activate <eBike Lock> by pushing the <eBike Lock> control unit to the right.
3. If you hand over your eBike to a bicycle dealer for maintenance, it is recommended to temporarily deactivate <eBike Lock> to avoid a false alarm.

Software updates
Software updates must be started manually in the eBike Flow app.
Software updates are transferred from the app to the control unit in the background as soon as it is connected to the app. During the update process, a green flashing on the battery charge indicator (13) shows the progress. The system is then restarted. You can control the software updates via the eBike Flow app.

Connecting the System Controller to the Mini Remote

The System Controller and Mini Remote operating units are connected via Bluetooth®.
Switch on the eBike system and do not start riding the eBike.
If the Mini Remote operating unit has not already been connected to the System Controller operating unit by the bicycle dealer, proceed as follows:

1. First connect your smartphone to the System Controller operating unit via the eBike Flow app (see Establishing a smartphone connection).
2. In the eBike Flow app, select <Connect the Mini Remote>.
    You will be asked to switch the System Controller and Mini Remote to pairing mode.
3. System Controller: Start the pairing process by pressing and holding (3 s) the on/off button (12) until the lower bar on battery charge indicator (13) shows the pairing process by flashing blue.
4. Mini Remote: Start the pairing process by press-ing any button until the pairing process is shown by the LED

indicator light (3) flashing blue.

5. Follow the instructions in the eBike Flow app.

If pairing is successful, this is shown within 30 s on the Mini Remote operating unit by the LED indicator light (3) flashing green three times.
If the connection cannot be established, this is shown by the LED indicator lamp (3) flashing red three times. Repeat the connection process.If you want to connect theMini Remote operating unit to a System Controller on another eBike, the follow-ing steps must be carried out:

1. Mini Remote: Remove the battery on the Mini Re-mote operating unit and reinsert it.

2. Within the next 10 s, press and hold the decrease assistance –/walk assistance (6) button for 5 s. The pairing process is shown by the LED indicator light (3) flashing blue for 30 s.

3. System Controller: Start the pairing process by pressing and holding (3 s) the on/off button (12) until the lower bar on battery charge indicator (13) shows the pairing process by flashing blue.

If pairing is successful, this is shown within 30 s on the Mini Remote operating unit by the LED indicator light (3) flashing green three times.
If the connection cannot be established, this is shown by the LED indicator lamp (3) flashing red three times. Repeat the connection process.

Error messages

The control 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 (10) flashing orange. Press the select button (5) on the Mini Remote (1) operating unit or the mode button (14) on the System Controller (2) operating unit to confirm the error. The assistance level LED (10) once again continuously shows the color 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
523005	The indicated error numbers show that there is interference when the sensors detect the magnetic field. See whether you have lost the magnet while riding.
514001	
514002	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.
514003	If you are using a rim magnet, make sure that you do not have any magnetic field interference in the vicinity of the
514006	drive unit.

Critical errors
Critical errors are shown by the assistance level LED (10) and the battery charge indicator (13) flashing red. If a critical fault occurs, follow the handling instructions on the following table.

Number	Handling instructions
660001	Do not charge the battery and do not continue to use!
660002	Please contact your Bosch eBike specialist retailer.
890000	– Acknowledge the error code. – Restart the system. If the problem persists: – Acknowledge the error code. – Perform the software update. – Restart the system. If the problem persists: – Please contact your Bosch eBike specialist retailer.

Maintenance and Service

Maintenance and Cleaning

The operating unit must not be cleaned with pressurized 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.

After-sales service and advice on using products
If you have any questions about the eBike system and its components, contact an authorized bicycle dealer. For contact details of authorized bike dealerships, please visit **www.bosch-ebike.com**.

Battery Recycling Program

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.
You may recycle your Bosch battery pack by calling 1.800.822.8837.

Documents / Resources

BOSCH BRC3100 System Controller [pdf] Owner's Manual
BRC3100, BRC3300, BRC3100 System Controller, System Controller, Controller, Mini Remote

References

- ⊞ **Bosch eBike Systems | Premium drives for eBikes & pedelecs**
- ⊞ **Licences Products - Bosch eBike Systems**