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BOSCH BCM3100 Connect Module Retrofit Kit Instruction Manual

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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 battery pack used in these operating instructions refers to all original Bosch eBike battery packs.

⚠ WARNING

- 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.
- 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 your Bosch Drive System

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.

- Read and observe the safety warnings and instructions in all operating instructions of the eBike system and your eBike.
- Only have the Connect Module installed and repaired by a certified dealer. This requires specialist expertise. If incorrectly installed, the Connect Module, and therefore eBike, may no longer operate as required by law.
- The Connect Module features a wireless interface. There may therefore be operating restrictions in certain locations, e.g. in airplanes or hospitals. Please also see the additional instructions under .
- **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.

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 device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment has been tested for compliance with SAR limits, the highest reported SAR value is 1.45 W/kg for Body-worn at 0 mm separation, and 0.62 W/kg for extremity at 0 mm separation.

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 device has been tested for compliance with SAR limits, the highest reported SAR value is 1.45 W/kg for Body-worn at 0 mm separation, and 0.62 W/kg for extremity at 0 mm separation.

Intended Use

The Connect Module can only be used with the related features from the app **eBike Flow.** Consequently, to use Connect Module, you must have a mobile device on which the app **eBike Flow** is downloaded and installed.

The Connect Module is intended solely for use with an eBike, specifically for tracking eBikes in the event of theft.

Technical Data

ConnectModule

Product code		BCM3100
Internal battery	V mAh	4.35 650
External battery connection	V	12
Frequency band LTE Cat-M1	MHz	B1 (2100 MHz) B2 (1900 MHz) B3 (1800 MHz) B4 (1700 MHz) B5 (850 MHz) B8 (900 MHz) B12 (700 MHz) B13 (700 MHz) B20 (800 MHz) B28 (700 MHz)
Transmission power	dBm	21
Weight, approx.	lb	0.1
Operating temperature	°F	23 to 104
Storage temperature	°F	50 to 104
Protection rating		IP54

Operation

The ConnectModule requires a working GPS and mobile data connection in order to function. The ConnectModule incorporates movement sensors, a global satellite navigation system and mobile communications. These enable the ConnectModule to identify suspicious movements of the eBike, establish the location of the eBike and sound an alarm on the bicycle itself. Position and movement data is displayed to the owner of the eBike through the app **eBike Flow.**

The ConnectModule provides additional services, such as **<eBike Alarm>,** which is available to the end customer in the app **eBike Flow.** More detailed information about the individual services of the app eBike Flow can be found in the app itself. Charges apply for the use of some services. Details can be found in the app **eBike Flow.**

Start-up

As soon as a ConnectModule is installed on an eBike, it can be activated through the app **eBike Flow.** This is only necessary once. Services such as the **<eBike Alarm>** can be activated and used through the app **eBike Flow.**

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.

The services of the ConnectModule can be deactivated at any time through the app **eBike Flow.** Provided the user has a valid activation, they will be able to reactivate all services. There is no means of deactivating the ConnectModule itself.

Switching on/off

The ConnectModule does not need to be switched on or off separately.
Provided the ConnectModule has a power supply and the relevant services are activated, it will send data to the bicycle owner.
The ConnectModule has its own internal battery, so its services are not dependent on the eBike battery's state of charge. The charge level of the internal battery can be viewed through the app **eBike Flow.** If the internal battery's state of charge is critical, an eBike battery should be inserted and the Bosch eBike charger should be connected.

Maintenance and Service

Maintenance and Cleaning

The ConnectModule requires no maintenance. In the event of damage or fault, contact an authorized dealer directly.
If services are not functioning despite being activated, please get in direct contact with the bicycle dealer from whom you bought the ConnectModule

If you hand over your eBike to a bicycle dealer for maintenance, it is recommended to temporarily deactivate the **<eBike Lock>** and **<eBike Alarm>** services. This will prevent alarms being falsely triggered.

Transport

Whenever you transport your eBike (e.g. in a car trailer, on a train or plane, etc.), we recommend deactivating all the individual services or activating the . **<Transport mode>This** will then deactivate any communication from the ConnectModule. This will prevent alarms being falsely triggered.

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.

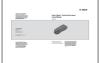Do not dispose of eBikes and their components with household waste.

 You may recycle your Bosch battery pack by calling 1.800.822.8837.

CUSTOMER SUPPORT

Robert Bosch GmbH
72757 Reutlingen
Germany
www.bosch-ebike.com

Documents / Resources

	BOSCH BCM3100 Connect Module Retrofit Kit [pdf] Instruction Manual BCM3100 Connect Module Retrofit Kit, BCM3100, Connect Module Retrofit Kit, Module Retrofit Kit, Retrofit Kit

References

- ⊕ **Bosch eBike Systems | Premium drives for eBikes & pedelecs**