

BMZ User's Manual

**BLOKS.** remote 14d



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## I. Introduction

### I.I Important instructions - please observe at all times

Along with this user's manual, your pedelec comes with additional documents. Please observe all such instructions and specifications. At present, only the riders of s-pedelecs (speed assistance up to 45 km/h) are required to wear a helmet. Nevertheless, to ensure your safety, we highly recommend wearing a helmet on "normal" pedelecs (speed assistance up to 25 km/h) as well.

### I.II Intended use of BLOKS. components

Your pedelec was sold by a specialist dealer and is equipped with one or several BLOKS. components. It is either:

- A hybrid bicycle designed for ordinary personal transportation on public roads.
- Or it's a mountain bike that is particularly geared towards off-road use.

Adjustments and repairs to the pedelec and its individual components only apply as intended use insofar as they are explained and permitted in this manual, in the operating manual of the pedelec manufacturer, the instructions of the component manufacturers or other documents included when purchasing your pedelec.

The manufacturer accepts no liability for damage caused by negligence as a result of misuse, improper maintenance or repairs, or improper use. It is the rider's responsibility to check the pedelec as required, to have any work carried out on it and to use it responsibly.

This user's manual only describes the use of BLOKS. components and corresponds to the state of the art at the time of going to print. The manufacturer reserves the right to make changes resulting from further development of the mechanics, software or legal requirements.

The manufacturer regards the following cases as examples of misuse of BLOKS. components fitted to your pedelec:

- Use of the drive system that contravenes the instructions and recommendations in this user's manual.
- Exceeding the technical limits laid down in this user's manual.
- Technical modifications to the BLOKS. components.
- Modifications to the software of the BLOKS. components.
- Unauthorised attachments or use of the BLOKS. components on bicycles or a different pedelec than the one supplied to you.

The manufacturer shall not be liable for any damage caused by misuse of the components. Before using the device, carefully read all safety and hazard information contained in the individual chapters of this user's manual and all other enclosed documents.

### I.III Explanation of symbols

In this operating manual, important safety information is identified as follows:



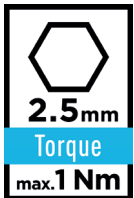
Warning – failure to follow the instructions could result in serious injury or death.



Caution – failure to follow the instructions could cause personal injury or damage equipment and/or the surroundings.



This symbol denotes tips and special information.



Shows the correct tool and the proper amount of torque for mounting.  
In this case a 2.5mm hex wrench should be used to tighten the screw.  
Maximum torque for mounting the screw is 1 Nm (newton meter).

Observe these notices at all times to avoid personal injuries and damage to the product.

### I.IV Approved operating conditions / locations

BLOKS. components can be used at temperatures between -10 °C and +60 °C. The IP67 protection rating means that this component is both protected against harmful dust as well as protected against immersion in water to a depth of up to 1 meter for up to 30 minutes. Please also observe the information on permissible operating conditions contained in the pedelec manufacturer's operating instructions. Any limitations regarding permissible operating conditions (e.g. maximum climbing capability, maximum permissible height of obstacles, maximum load, etc.) must be observed when using the pedelec. Observe the safety and hazard information provided in the individual chapters of the user's manual.

### I.V Technical data

#### **BLOKS. remote 14d** (handlebar control unit)

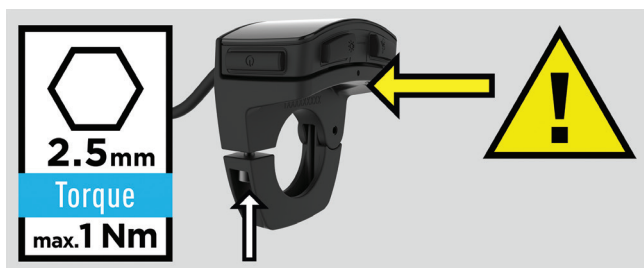
Remote 14d	Rocker switch for + and -, 3 buttons, 22.2mm inner diameter, hard-wired
Display type	LCD (Liquid Crystal Display)
Color depiction	Monochrome
Display diagonal	1.4 inch / 35.4mm
Dimensions (W x L x H)	22mm x 46mm x 51mm
Display screen	Hard-coated PMMA (PolyMethyl MethAcrylate) acrylic glass lens
Protection rating	IP67
Weight with cable	58 g

#### **1. What is the BLOKS. remote 14d?**

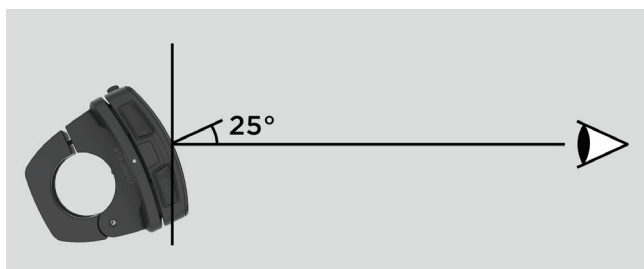
The BLOKS. remote 14d is a control unit with an integrated LCD display mounted on the handlebars. Since all important information is shown on the high-contrast, 1.4-inch monochrome LCD, a larger display mounted in the middle of the handlebars is not necessary – the remote 14d is a self-contained system.



[Fig. 1] Remote mounted on the handlebars



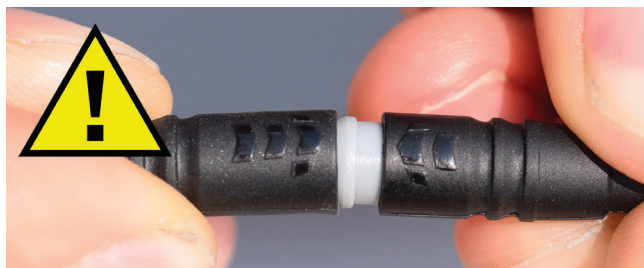
[Fig. 2] Proper torque, avoid pressure against the housing



[Fig. 3] Best viewing angle



[Fig. 4] Female and male plugs



[Fig. 5] Align plug markings

## 2. Mounting the remote

The BLOKS. remote is mounted on the left side of your pedelec's handlebars [Fig. 1]. The entire surface of the LCD display acts as a rocker switch for the settings "+" and "-". The remote also has three buttons; two on the side and one at the front. With the switch and the buttons, you can change the settings on your pedelec, such as the motor's support level, at any time without taking your hands off the handlebars.

When mounting the remote, keep the following in mind [Fig. 2]:

**Torque:** The remote is fastened with a 2.5mm hex head screw. Please do not apply more than 1 Nm (newton meter) of torque to the screw.

**Caution:** Make sure that nothing on the handlebars like the grip or the brake lever is pressing against the side or underside of the remote (yellow arrow). This could interfere with the function of the rocker switch.

The display is designed in such a manner that the optimum viewing angle is 25 degrees under the perpendicular [Fig. 3]. Loosen the fastening screw and tilt the display on the handlebars until you find the best angle for your riding position. Then refasten the screw, not using more than 1 Nm of torque.

## 3. Connecting the remote's plug

If you need to open the two ends of the plug located on the cable that goes from the BLOKS. remote to the pedelec's frame, please observe the following instructions when reconnecting the plug.

The male plug on the cable comes from the remote [Fig. 4, right], the female plug is on the other end of the cable [Fig. 4, left].

**Caution:** The plugs must be aligned correctly when being connected. Both plugs are provided with markings – align the markings on the plugs [Fig. 5].



[Fig. 6] Carefully press plug together

Caution: Carefully press the two ends of the plug together [Fig. 6]. If the two ends are not correctly aligned, the plug could be damaged.

When disconnecting or connecting the plug, make sure only to hold the ends of the plug, not the cable itself. When connecting the plug, do not bend the cable to avoid kinking and damaging it.



[Fig. 7] Rocker switch and buttons

#### 4. Overview of rocker switch and buttons

The entire display of the BLOKS. remote 14d forms a rocker switch. The display can be pressed at the top for the "+" function and at the bottom for the "-" function. In addition, there are three buttons for "Power", "Light" and "Set" [Fig. 7]. The rocker switch and the buttons have the following functions:

"Power"	=	Switches display / pedelec* on or off
"+"	=	Motor support is increased one level
"+" press and hold	=	Walk assist is turned on
"-"	=	Motor support is decreased one level
"-" long press	=	Trip is reset to 0
"Light"	=	Switches lighting on or off
"Set"	=	Changes the selection in the display
"Set" long press	=	Changes units between metric and imperial

\*depends on pedelec model, see chapter 5.1 below

## 5. Using the BLOKS. remote 14d

### 5.1 Switching on and off, screen explanation

Turning the system on:

The system as a whole consists of the remote and the pedelec. To turn on the system, press either the "Power" button on the BLOKS. remote 14d or the button on the battery (varies depending on the model). The display screen will turn on after a few seconds.

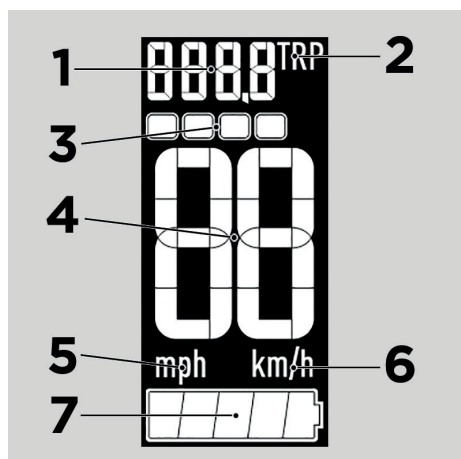
The next picture [Fig. 8, page 6] shows all segments of the display at once. While riding, the display will not actually show all segments at the same time – it will look more like the screen above [Fig. 7]. In the example above, you are riding with the third support level at a speed of 27 km/h. The battery is not entirely full, but well charged, and you have covered a distance of 65.3 kilometers on this trip.

Turning the system off:

To turn off the system, press either the "Power" button on the BLOKS. remote or the button on the pedelec's battery (varies depending on the model). The display and your pedelec will be turned off.

Automatic switch-off:

If your pedelec is not used for several minutes, the system will be switched off automatically. Pressing the "Power" button again switches the system on again.



[Fig. 8] LCD display

## 5.2 Display

The BLOKS. remote 14d has an LCD (Liquid Crystal Display). The different segments show:

1. Distance or range (see chapter 5.5)
2. Trip (TRP), Range (R) or Odometer (T) (chapter 5.5)
3. Support level (chapter 5.7)
4. Speed (chapter 5.8)
5. mph = Miles per hour, unit of measurement (chapter 5.6)
6. km/h = Kilometers per hour, unit of measurement (chapter 5.6)
7. Battery level (chapter 5.9)

Note: In Figure 8, all segments of the display are shown. While riding, a typical display screen does not show all segments at the same time.



Warning: Never let the display distract you so much that you lose awareness of your surroundings. In the worst case, such a distraction could lead to serious injury or death.

## 5.3 Lighting

Press the "Light" button (chapter 4, page 5) to turn on the lighting. Normally, lighting on the pedelec consists of a front and a rear light. While there is no visual representation of lighting on the LCD display, the backlight of the remote 14d will turn on and remain on as long as the lighting is on. Press the light button again to turn off the lighting.

## 5.4 Walk assist

Press and hold "+" on the rocker switch (chapter 4) to turn on the walk assist function. Walk assist turns on the motor to slowly (6 km/h) propel your pedelec forward without any pedaling from the rider. This function can be handy, for instance, when pushing the pedelec up a ramp. There is no visual representation of walk assist on the LCD display; the function ceases as soon as "+" is released. If you start pedaling or go faster than 6 km/h, the walk assist function will also cease.

## 5.5 Trip, range and odometer

At the top right [Fig. 8, number 2], the display indicates whether it is showing the trip distance (TRP), the estimated remaining range of the pedelec (R), or the odometer = the total distance the pedelec has travelled (T). The default setting for the display is TRP = trip distance. Long pressing the "-" button (chapter 4) will reset the trip counter TRP to 0.

To change the display settings, press the "Set" button (chapter 4) once to show R = range or twice to show T = odometer. Pressing the "Set" button again will continue to cycle the display through the sequence TRP / R / T; after T the display returns to TRP.

The display shows up to 9999 kilometers or 6213 miles. If the odometer reaches more than 9999 kilometers, it rolls over to 0 kilometers.

## 5.6 Units

Long press the "Set" button (chapter 4) to change between metric units of measurement (km/h = kilometers per hour) and imperial units of measurement (mph = miles per hour). The units are shown in Fig. 8 above as numbers 5 and 6.



## 5.7 Choice of support

You can press "+" and "-" on the rocker switch (chapter 4) of the BLOKS. remote 14d at any time to change the degree of motor support. This will help you and your pedelec make optimal progress in all situations and on all terrains. There are four levels of support and "Off", which equals level 0, so five levels in all. The symbols for the levels are shown below [Fig. 9].



[Fig. 9] Support levels

Level 4: Highest level of support, offers the most power, drains battery at the fastest rate

Level 3: The second highest support level

Level 2: The second lowest support level

Level 1: The lowest level of support, the battery retains its charge the longest

Level 0 (Off): You're riding without assistance, the pedelec is like a bicycle



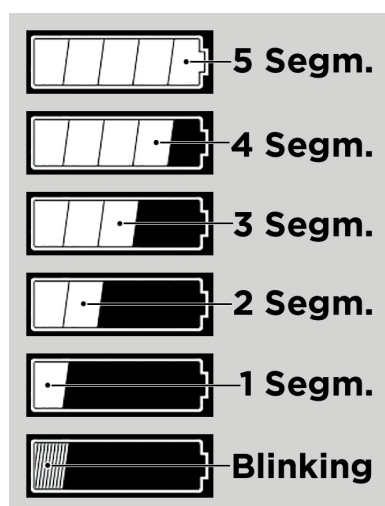
The motor's support only continues as long as you keep pedalling. If you stop pedalling, the motor will cease its support.

## 5.8 Speed

The largest section of the display on the remote 14d shows the pedelec's current speed [Fig. 8, number 4]. To change the speed's units (km/h or mph), simply long press the "Set" button (chapter 5.6 on the previous page).

## 5.9 Battery state of charge

The battery symbol at the bottom of the display indicates the battery's state of charge in five segments [Fig. 10]. Please note that each segment only indicates a range of 20%, not an absolute amount. For example, if three segments are displayed, then the battery is about half-full, but not necessarily exactly 60% full – the charge level will be in the range of 41% to 60%. When the battery charge level falls to 10% or below, the last of the five segments starts blinking in order to show the low state of charge.



[Fig. 10] Battery charge levels

Five segments: Charge level about 81 - 100%

Four segments: Charge level about 61 - 80%

Three segments: Battery is half-charged, about 41 - 60%

Two segments: Charge level about 21 - 40%

One segment: Charge level about 11 - 20%

One segment blinking: Charge level 10% or below

## 6. Firmware updates by the bike dealer

Your bike dealer can upload firmware updates to the BLOKS. remote 14d. Such firmware updates are available at certain intervals – your dealer will be happy to advise you and keep you informed. Please note that riding behavior may change slightly after an update. Therefore, after each update, first do a test ride on private property.

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