



Operating instructions

## BMW Motorrad communication system

## Vehicle data/dealership details

### Vehicle data

Model

Vehicle Identification Number

Colour code

Date of first registration

Registration number

### Dealership details

Person to contact in Service department

Ms/Mr

Phone number

Dealership address/phone number (company stamp)

## **Preface**

We congratulate you on your choice of a communication system from BMW Motorrad and welcome you to the community of BMW riders. Familiarise yourself with your new communication system so that you can use it safely and confidently in all traffic situations.

### **Notes on this rider's manual**

Read this rider's manual before starting your new BMW Motorrad communication system. You will find important notes here on operation which will help you to make the most of the technical benefits of your BMW Motorrad communication system. Furthermore, the manual contains information on maintenance and care. This helps to ensure operational and road safety, and to maintain the communication

system in the best possible condition.

If, in future, you decide to sell your BMW Motorrad communication system, please remember to include the rider's manual as well. It is an important element of the communication system.

### **Suggestions and criticism**

If you have any questions concerning your communication system, your authorised BMW Motorrad dealer will gladly provide advice and assistance.

We hope that you enjoy your BMW Motorrad communication system and would like to wish you a safe and pleasant journey.

BMW Motorrad.

76 51 8 568 246



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## **General instructions**


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## Overview


This section provides an overview of these operating instructions as well as some general notes on the BMW Motorrad communication system. Before you can use your communication system as described in section 2, the "pairing" procedure described in section 3 (► 24) must be carried out. Please observe the notes on care and maintenance of the batteries in section 4 (► 32) as well.


## Abbreviations and symbols

 **CAUTION** Low-risk hazard. Non-avoidance can lead to slight or moderate injury.

 **WARNING** Medium-risk hazard. Non-avoidance can lead to fatal or severe injury.

 **DANGER** High-risk hazard. Non-avoidance leads to fatal or severe injury.

 **ATTENTION** Special notes and precautionary measures. Non-compliance can lead to damage to the vehicle or accessory and, consequently, to voiding of the warranty.

 **NOTICE** Specific instructions on how to operate, control, adjust or look after items of equipment on the vehicle.

- ◀ Indicates the end of an item of information.
- Instruction.
- » Result of an activity.
- Reference to a page with more detailed information.

◁ Indicates the end of a passage relating to specific accessories or items of equipment.



Tightening torque.



Technical data.

## BMW Motorrad communication system

The BMW Motorrad communication system enables wireless voice communication between two helmet units on the basis of the Bluetooth radio standard. Consequently, it is also possible to connect to other Bluetooth-compatible devices such as mobile phones, MP3 players or navigation systems. The maximum range over which devices can reliably communicate is approximately 20 metres.



The communication system has been optimised for installation in the following BMW helmets:

- System 6 helmet
- System helmet 6 EVO
- System 7 Carbon
- Airflow helmet
- GS Carbon helmet

Different installation kits are available for the various helmets.

#### NOTICE

The descriptions and images in these operating instructions relate to the BMW System 7 Carbon helmet. The functions described also apply similarly to the other BMW helmets.◀

The system is non-motorcycle-specific and designed to be used by rider and passenger on the same motorcycle. Although it is possible for the riders of two motorcycles to communicate with this system, the likelihood of vari-

ations in distance between the two machines and the possibility of interference from external sources mean that communication could not always be relied on to function as it should.

Interference noise picked up by the wind-protected boom microphone is automatically suppressed, making communication from within closed helmets possible, even at high speeds. However, in open-faced helmets, communication at high speeds is only possible to a limited extent. The microphone should always be positioned as close to the mouth as possible.

#### Bluetooth

Bluetooth is a short-range wireless technology. Bluetooth devices are short-range devices transmitting on the licence-free ISM waveband (Industrial,

Scientific, Medical) between 2.402 GHz and 2.480 GHz. They can be operated anywhere in the world without a licence being required.


#### Note on wireless connections:

Although Bluetooth is designed to establish and sustain robust connections over short distances, as with every other wireless technology disruptions are possible. Interference can affect connections or connections can sometimes fail. Particularly when multiple devices operate in a Bluetooth network, with wireless technology of this nature it is not possible to ensure fault-free communications in every situation.

## Note on health compatibility

As the evidence stands, there is no indication that using Bluetooth devices has a negative effect on humans. The transmitting power of the BMW Motorrad communication system is maximum 4 mW; the transmitting power of a mobile phone is up to 2 W. The ISM waveband used by Bluetooth is designated for worldwide use by industry, science and medical technology and, thanks to the low transmitting power, is classed as uncritical in terms of health risks.

## Disposal

 If you want to dispose of your communication system in future: it is illegal to dispose of electrical devices as normal domestic waste. Please bring the communication system to

a collection point for electronic devices for disposal.

## Currency

The high safety and quality levels of BMW accessories are ensured by a process of continuing evolution. Because of this, the accessory you have purchased may differ from the information supplied in the instructions for use. Nor can BMW Motorrad entirely rule out errors and omissions. We hope you will appreciate that no claims can be entertained on the basis of the data, illustrations or descriptions in this manual.

## Technical data

All dimensions, weights and power ratings stated in the instructions for use are quoted to the standards and comply with the tolerance requirements of the Deutsches Institut für Normung

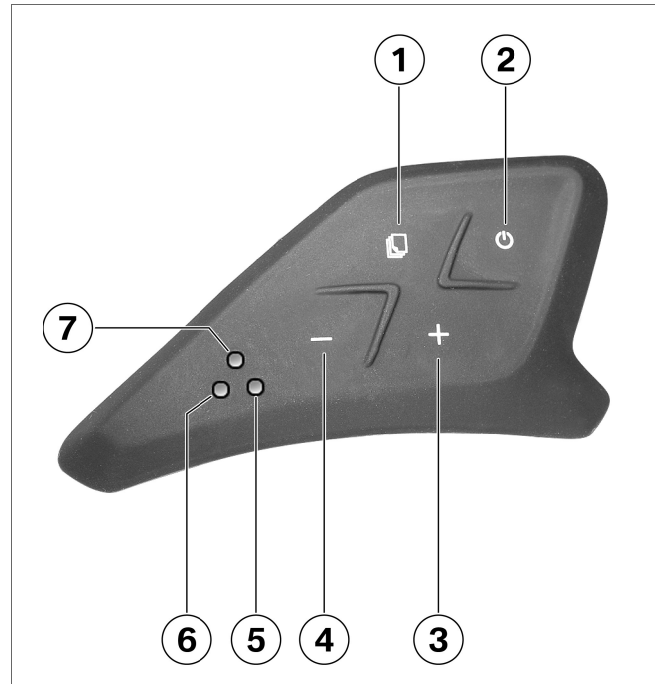
e.V. (DIN). Versions for individual countries may differ.

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## Operating panel

- 1 Starting voice control on the mobile phone (only with communication system for System 7 Carbon helmet) (►► 14)
- 2 Switch communication system on and off (►► 12)  
Start or pause music playback  
Switch between communication and music (►► 18)  
Operation of telephone functions (►► 16)
- 3 Play next music track  
Increase volume (►► 13)
- 4 Play previous music track  
Reduce volume (►► 13)
- 5 Yellow LED:  
Charge indicator light (►► 32)
- 6 Green LED:  
Schematic diagram of the operating condition (►► 11)



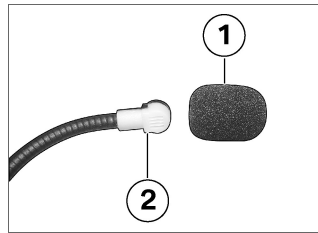


## Close the flip-front helmet

- Before closing a flip-front helmet, position the microphone in front of your mouth to prevent it getting trapped during closing. Then close the chin section.

## Check microphone alignment

- At regular intervals, check that the microphone is aligned correctly with your mouth.



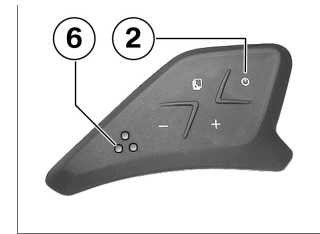
- To do so, pull the wind deflector **1** away from the microphone so that the white area **2** underneath is visible.

The white area must be facing the mouth, the black area must be facing away from the mouth. If the microphone has become twisted:

- Position the goose neck along with the microphone so that the white area of the microphone is facing your mouth. To do so, twist the goose neck inwards, but do not twist the microphone against the goose neck or the goose neck against

the bracket. If required, seek the advice of a specialist workshop, preferably an authorised BMW Motorrad dealer.

## Switch on communication system



- Press and hold button **2** until a message indicates the battery charge and the green LED **6** starts flashing.
  - » The communication system initialises itself; the green LED slow-flashes,
  - » The communication system then goes to standby mode;

the green LED flashes as the rate of one flash per second.

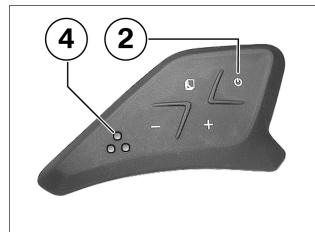
If the communication system does not switch on:

- Charge battery (► 33).

If the red LED lights up and remains ON after the system is switched on, a system error has occurred:

- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad dealer.
- Press and hold button **2** for ten seconds to restart the communication system.

### Switch off communication system



- Press and hold button **2** until a message indicates the battery charge and the red LED **4** starts flashing.

#### NOTICE

If the communication system fails for 15 minutes to find any of the Bluetooth devices with which it is paired, it switches off automatically to save the batteries.◀

» The communication system switches itself off, the red LED flashes three times.

- Press and hold button **2** for ten seconds to force the device to switch off (e.g. in the event of a system fault).

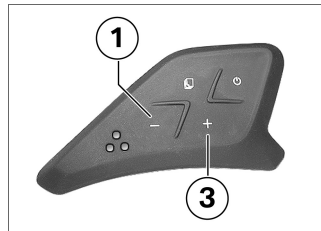
### Adjust the volume

#### CAUTION

#### Communication system which is set too loud

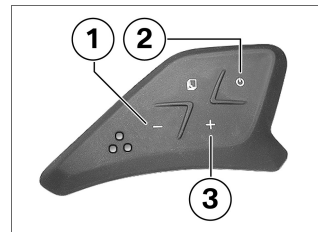
Risk of accident due to not hearing other road users (particularly special vehicles), hearing damage

- Select the volume of the communication system so that traffic perception is not impaired.◀



- Press button **1**.
  - » The volume is decreased with each keystroke.
- Press button **3**.
  - » The volume is increased with each keystroke.

### Control of music playback



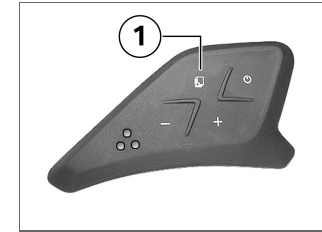
- Press button **2**.
  - » Music playback is started or paused.
- Press and hold button **1** or **3**.
  - » The previous or next music track is played.

### Starting voice control on the mobile phone

#### Requirement

This function is currently only available with the System 7 Car-

bon helmet and can only be used with compatible mobile phones.



- Press button **1** to start the voice control service on the paired mobile phone.

#### NOTICE

The voice control commands for the mobile phone may be found in the documentation for the specific operating system.◀

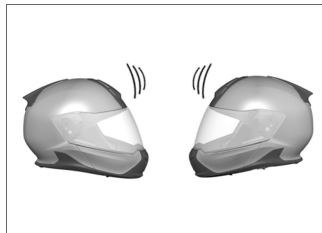
- » The voice control service on your mobile phone prompts you for voice control.



- Press button **1** to cancel voice control.

### Connection from helmet to helmet

#### Connection setup



The connection setup between two helmets is automatic as soon as both communication systems are switched on.

#### NOTICE

Before the initial connection setup, the participating Bluetooth

devices must be made known to each other (pairing).◀

The communication between helmets is interrupted during phone calls or navigation announcements, this being indicated by a sound signal in the other helmet. Communication between the two helmets is restored, or music playback resumed, as applicable, as soon as the phone call or announcement is over. The re-establishment of the connection is indicated by a new sound signal.

Exception: communication between helmets is still possible during navigation announcements of BMW Motorrad navigation devices.

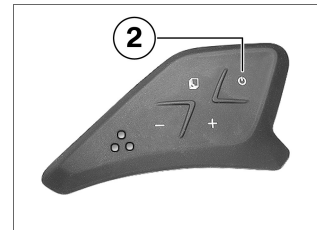
#### Operation

- Switch on the communication systems of both helmets.
- » As soon as there is a connection between the helmets, the

green LEDs light up continuously.

If no communication is possible:

- Make sure that neither of the helmets is in music mode.
- Increase volume if required.
- Check microphone alignment (►► 12).



- Briefly press button **2** twice (change to music mode) to interrupt the connection between the helmets.
- Briefly press button **2** twice again to re-establish the connection between the helmets.

## Connection from telephone to helmet

### Connection setup



Each helmet with a communication system can be paired with a telephone of its own, but a telephone can be paired with only one communication system. The settings and range of functions supported by the telephone determine whether or not connection setup between the communication system and the telephone can take place automatically. Always refer to the instructions for use of the device

in question for details. Note that the Bluetooth function must be active; the communication system might have to be authorised or authenticated.

#### NOTICE

Before the initial connection setup, the participating Bluetooth devices must be made known to each other (pairing).◀

An incoming phone call is displayed for approximately five seconds by a sound signal and can be rejected within this period. Otherwise it will be accepted automatically. The communication from helmet to helmet and/or music playback is interrupted for the duration of the phone call.

The phone call is ended as soon as the other party hangs up, but can also be ended manually us-

ing the operating facility on the helmet.

Communication between the two helmets is restored, or music playback resumed, as applicable, as soon as the phone call is over.

#### Operation

- Switch on the telephone and the communication system of the corresponding helmet.
- Check the telephone to see if the connection has automatically been established.

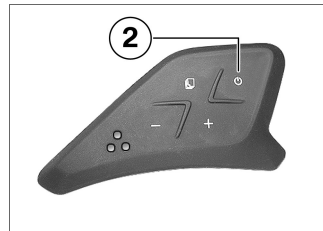
If there is no connection:

- Check the settings of the telephone.

#### NOTICE

Some Bluetooth devices do not support automatic connection set-up.◀

- If required, create the connection to the communication system manually.



- Briefly press button **2** to reject an incoming call during the sound signal.
- Press button **2** briefly to hold the current call.
- Briefly press button **2** again to resume the held call.
- Press button **2** for a longer period (approx. two seconds) to end the current call.

**NOTICE**

For technical reasons, a brief period might elapse after the button is pressed before the tele-

phone actually terminates the call.◀

**Connection from navigation device to helmet**

**Connection setup**



Each helmet with a communication system can be paired with a navigation device of its own, but a navigation device can be paired with only one helmet.

The configuration settings and range of functions supported by the navigation device determine whether or not connection

set-up between the communication system and the device can take place automatically. Always refer to the instructions for use of the device in question for details. Note that the Bluetooth function must be active; the communication system might have to be authorised or authenticated.

**NOTICE**

Before the initial connection setup, the participating Bluetooth devices must be made known to each other (pairing).◀

Music playback is interrupted for navigation announcements. When using BMW Motorrad navigation devices, communication is still possible from helmet to helmet, whereas this is interrupted with other navigation devices. An acoustic alert sounds in the passenger's helmet to indicate that communication has been inter-

rupted. Communication between the two helmets is restored, or music playback resumed, as applicable, as soon as the announcement is over.

### Operation

- Switch on the navigation device and the communication system.
- Check the navigation device to see if the connection has automatically been established.

If there is no connection:

- Check settings of the navigation device.

### NOTICE

Some Bluetooth devices do not support automatic connection set-up.◀

- If required, create the connection to the communication system manually.

## Connection from music playback device to helmet

### Connection



Each helmet with a communication system can be paired with a music device of its own, but a music device can be paired with only one communication system. Remember that music playback must be in the Bluetooth profile A2DP format.

### NOTICE

A2DP (Advanced Audio Distribution Profile) is a non-proprietary technology that enables stereo audio signals to be transmitted by Bluetooth to a compatible receiver.◀

The settings and options supported by the music device determine whether or not connection setup between the helmet unit and music device can take place automatically. Always refer to the operating instructions of the device in question for details. Note that the Bluetooth function must be active; the communication system might have to be authorised or authenticated.

### NOTICE

Before the initial connection setup, the participating Bluetooth

devices must be made known to each other (pairing).◀

You must switch to music mode to listen to music. Communication with a second helmet is not possible in this mode.

If the communication system does not detect a second helmet, music mode is always active. If a second communication system is stored, music mode must be activated manually.

Music playback is interrupted for the duration of a phone call or a navigation announcement.

### Sound quality

BMW Motorrad recommends the following settings in the system settings of the music device to achieve the best possible sound quality:

- Tone settings: neutral or zero
- Loudness: OFF
- Equaliser: OFF

The communication system uses tone settings adjusted specifically to the helmet loudspeakers which can be distorted by the settings on the music device.

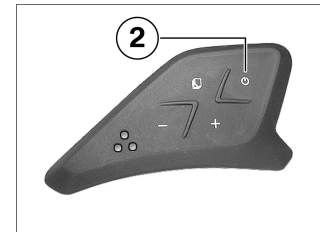
### Operation

- Switch on the music device and the communication system.
  - Check that the connection has been made on the music device.
- If there is no connection:
- Check settings of the music device.

### NOTICE

Some Bluetooth devices do not support automatic connection set-up.◀

- If required, create the connection to the communication system manually.



If the connection to the music device is lost:

- Press button **2** twice briefly.  
» The communication system attempts to re-establish the connection to the music device.
- Press button **2** twice briefly to switch between music and communication mode.

## Connection between telephone, navigation device and helmet

### Connection

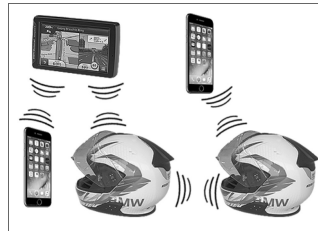


Telephone and navigation device cannot be connected with a helmet with a communication system at the same time. The telephone must be incorporated in the Bluetooth combination via the navigation device to enable both devices to be used at the same time. To do so, the navigation device is connected with the communication system as described (►► 20). In addition,

the telephone must be connected with the navigation device. The navigation device then announces, accepts and ends any phone calls.

## Connections to several devices

### Connection



At any given time, each communication system can be connected with one of each of the following types of device:

- Another communication system
- An A2DP (Advanced Audio Distribution Profile) compatible music playback device
- An HFP/HSP (Hands Free Profile/Handset Profile) telephone or navigation device

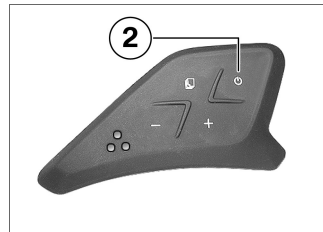
Many mobile phones and navigation devices have inbuilt music playback devices. A device of this nature connected to a communication system can be used to play music and is therefore classed as a music playback device. In this case, no other music playback devices can be connected to the helmet.

### Devices no longer in use

If a previously connected device is no longer in use, its pairing entry should be deleted from the communication system. Not doing so can delay the setup of other available devices.

### Operation

- Create connections as described for the individual devices.



If music is being played in both helmets:

- Briefly press button **2** on one of the helmets twice to switch from music mode to communication mode.
  - » Both helmets switch to communication mode.

If the helmets are in communication mode:

- Briefly press button **2** twice to switch from communication mode to music mode.
  - » The communication system belonging to the pressed button switches to music mode.
  - » The second communication system must be switched to music mode manually. Depending on the music device, the changeover can occur automatically.

### Software updates

The latest software version is made available on the BMW Motorrad homepage. Connect the communication system to the computer using a micro USB cable to carry out a software update.

**2**

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Operation



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## Pairing

Two Bluetooth devices must detect each other before they can create a connection with each other. This process of mutual detection is called "pairing". A device is stored once it has been detected, meaning that pairing only has to be carried out for the initial contact.

The BMW Motorrad communication system can be connected with a maximum of three Bluetooth devices, with each device belonging to one of the following three different categories:

- A second BMW Motorrad communication system
- An A2DP-compatible music device
- A telephone or with a navigation device

If a telephone and a navigation device are to be used, the tele-

phone must be integrated in the connection via the navigation device (►► 20).

A Bluetooth device which has already been detected is replaced with a second device of the same category due to pairing. If the previous device is used again, pairing must be repeated.

During pairing, a Bluetooth device searches for other Bluetooth-capable devices within its reception area. The conditions that have to be satisfied before a second device can be detected are as follows:

- The Bluetooth function of the device must be activated
- The device must be "visible" to others

Please obtain information on the steps required for this in the operating instructions of the relevant devices.



### NOTICE

Despite the standardisation of Bluetooth and the interoperability this has created between many devices, there can be no guarantee that all available Bluetooth devices will function correctly.◀

### Pairing two helmets

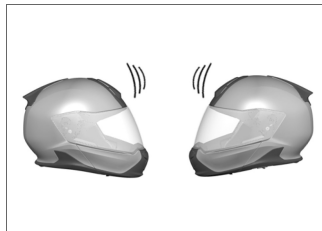


### WARNING

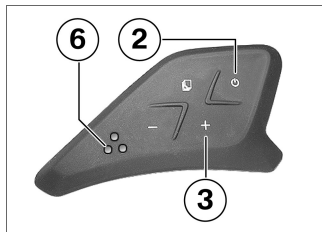
#### Pairing while riding

Risk of accident due to distraction

- Only carry out pairing if the vehicle is at a standstill.◀



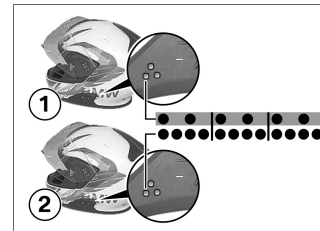
- Switch on the communication systems of both helmets.



- Simultaneously press button **2** and button **3** of one helmet until the flashing speed of the

green LED **6** has increased once.

- » The communication system of the first helmet is now **visible** to other Bluetooth devices for a maximum of 60 seconds; the green LED flashes at a rate of two flashes per second.
- Simultaneously press and hold button **2** and button **3** of the second helmet until the flashing speed of the green LED **6** has increased **twice**.
- » The communication system of the second helmet now **searches** for another visible helmet for a maximum of 60 seconds; green LED **6** flashes at a rate of four flashes per second.



The green LED of the searching helmet **2** flashes twice as fast as the green LED of the visible helmet **1**.

- » If pairing is successful the green LEDs of both helmets light up for one second and the voice connection is established. A high-pitched confirmation tone sounds in both helmets.
- » If pairing fails the red LED of the searching helmet flashes three times and a low-pitched warning tone sounds. The green LED then switches to

a slow flash, indicating that the system is on standby.

If pairing is unsuccessful:

- Switch off all other Bluetooth devices in the immediate vicinity and try to pair the two helmets again.

#### NOTICE

It can take some time for a Bluetooth device to be detected. It is always best to activate the search function as soon as possible after activating visibility, so that the searching device will have as long as possible to find the visible device.◀

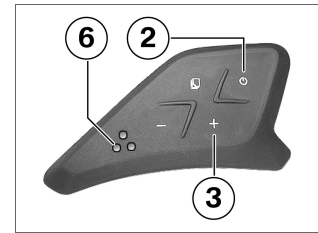
If pairing is again unsuccessful:

- Deleting pairing entries (▶▶▶ 30).
- Run the pairing procedure again.

## Pairing of telephone and helmet



- If necessary, consult the operating instructions of your telephone concerning its Bluetooth functions.
- Switch on communication system and telephone.

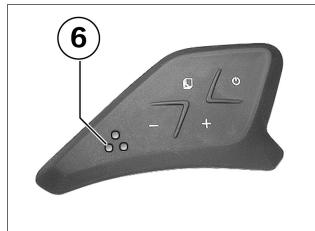


- Press and hold button **2** and button **3** of the communication system simultaneously until the flash frequency of the green LED **6** has increased once (2 Hz flashing).
  - » The communication system is now visible to other Bluetooth devices for a maximum of 60 seconds, the green LED flashes twice per second.
- Start the search function of the telephone for other Bluetooth devices.

## NOTICE

It can take some time for a Bluetooth device to be detected. It is always best to activate the search function as soon as possible after activating visibility, so that the searching device will have as long as possible to find the visible device.◀

- » If the communication system has been detected by the telephone, it is displayed as a headset with the designation "BMW\_HELMET\_III xxxx". The letters "xxxx" represent the identification number of the communication system.
- If requested, the security code '0000' must be entered during the pairing phase.

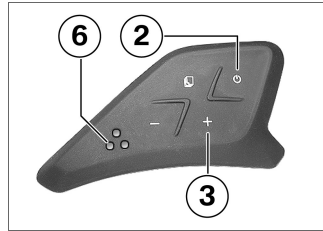


The green LED **6** is illuminated for a short time and a high-pitched confirmation tone sounds.

## Pairing of navigation device and helmet



- If necessary, consult the operating instructions of your navigation device concerning its Bluetooth functions.
- Switch on communication system and navigation device.

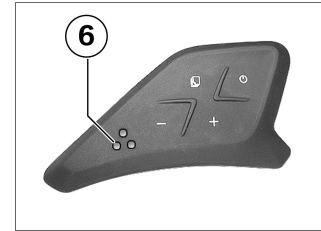


- Simultaneously press and hold button **2** and button **3** of the communication system until the flashing speed of the green LEDs **6** has increased once (2 Hz flashing).
- » The helmet is now visible to other Bluetooth devices for a maximum of 60 seconds, the green LED flashes twice per second.
- Start the search function of the navigation device for other Bluetooth devices.

#### NOTICE

It can take some time for a Bluetooth device to be detected. It is always best to activate the search function as soon as possible after activating visibility, so that the searching device will have as long as possible to find the visible device.◀

- » If the communication system has been detected by the navigation device, it is displayed as a headset with the designation "BMW\_HELMET\_III xxxx". The letters "xxxx" represent the identification number of the communication system.
- If requested, the security code '0000' must be entered during the pairing phase.

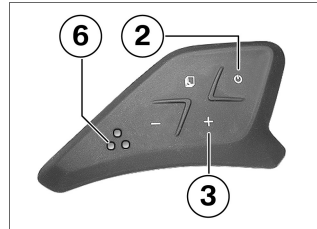


The green LED **6** is illuminated for a short time and a high-pitched confirmation tone sounds.

## Pairing of music device and helmet



- If necessary, consult the operating instructions of your music device concerning its Bluetooth functions and A2DP capability.
- Switch on communication system and music device.

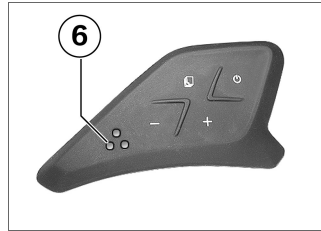


- Press and hold button **2** and button **3** of the communication system simultaneously until the flash frequency of the green LEDs **6** has increased once (2 Hz flashing).
  - » The communication system is now visible to other Bluetooth devices for a maximum of 60 seconds, the green LED flashes twice per second.
- Start the search function of the music device for other Bluetooth devices.

### NOTICE

It can take some time for a Bluetooth device to be detected. It is always best to activate the search function as soon as possible after activating visibility, so that the searching device will have as long as possible to find the visible device.◀

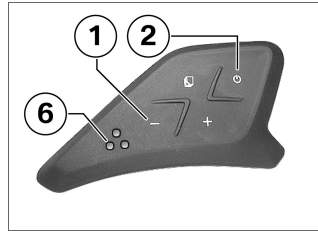
- » If the communication system has been detected by the music device, it is displayed as a headset with the designation "BMW\_HELMET\_III xxxx". The letters "xxxx" represent the identification number of the communication system.
- If requested, the security code '0000' must be entered during the pairing phase.



The green LED **6** is illuminated for a short time and a high-pitched confirmation tone sounds.

#### Deleting pairing entries

- Switch on the communication system.



- Simultaneously press button **1** and button **2** of the helmet and hold the buttons down.

#### NOTICE

All pairing entries are deleted. If a new device is to be saved the existing entry is overwritten. It is not necessary to delete the entry beforehand.◀

- » If deletion is successful, green LED **6** lights up briefly and then starts slow-flashing to indicate that the system is on standby. A high-pitched confirmation tone sounds.



**Power supply**

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Charge battery..... 33

## Battery care

The BMW Motorrad communication system is equipped with a nickel metal hydride battery and has a total capacity of 2400 mAh. Charging electronics prevent overcharging of the battery: the electronics switch automatically to float charge as soon as the battery has recharged.

It takes an average of four hours for a discharged battery to recharge; fully charged batteries enable the system to operate for up to 14 hours.

To prevent premature ageing, a rechargeable battery should be charged at intervals of about six weeks while not in use.

Rechargeable batteries have a limited life of not more than three years. When the batteries fade appreciably and can no longer hold their charge for more than a short period of time they

can be replaced by your authorised BMW Motorrad dealer. For safety reasons, use only genuine BMW Motorrad rechargeable batteries.

### ATTENTION

#### Incorrect battery charging

Damage to the battery

- Only charge the battery using the charger supplied.◀

The micro USB port that functions as the charging adapter tucks underneath your helmet's neck pad. The charging cable supplied can be plugged into this socket.

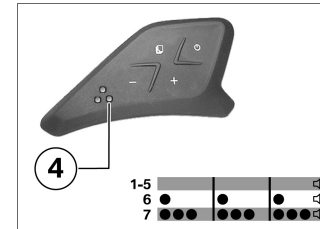
#### Disposal



Do not attempt to dispose of spent rechargeables and batteries as domestic waste: bring rechargeables that can no longer be used to an approved

collection centre or hand them in to the retailer when you purchase replacements.

## Charge status indicator



The battery's state of charge is displayed by the green LED **4**. The current state of charge is indicated when you switch the system on or off and when the following values for the state of charge are reached:

- 1**
- State of charge full
  - Acoustic message "full"
  - LED is OFF

## 2

- State of charge at 80 %
- Acoustic message "80 %"
- LED is OFF

## 3

- State of charge at 60 %
- Acoustic message "60 %"
- LED is OFF

## 4

- State of charge at 40 %
- Acoustic message "40 %"
- LED is OFF

## 5

- State of charge at 20 %
- Acoustic message "20 %"
- LED is OFF

## 6

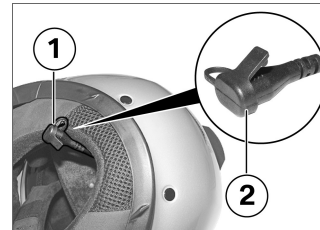
- State of charge low
- Acoustic message "battery low"
- LED flashes once every 2 minutes

- Maximum 2 hours of operating period remaining

## 7

- State of charge critical
- Acoustic message "empty"
- LED flashes 3x every 30 seconds
- Maximum 1 hour of operating period remaining

### Charge battery



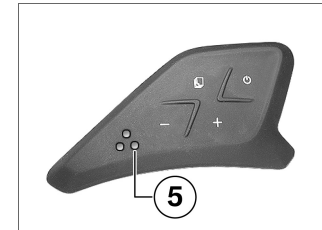
- Pull out charging socket **1** under the padding and remove protective cap **2**.

### ATTENTION

#### Incorrect battery charging

Damage to the battery

- Only charge the battery using the charger supplied.◀
- Connect the charging socket to a socket using the charging cable supplied.



During the charging procedure, the yellow LED **5** indicates the charging progress.

- LED is constantly illuminated: battery is being charged.

– LED goes out: charging procedure is finished, the charging electronics switch over to trickle charging.

– LED flashes: ambient temperature outside of the permitted range or battery is being checked.

If the LED flashes:

- Check the ambient temperature (see technical data) and change charging location if necessary.

If the ambient temperature is within the permitted range and the LED flashes for longer than five minutes, the battery is faulty:

- Replace battery.

Once the battery is charged:

- Disconnect the plug connection, replace the protective cap and store the charging socket under the neck pad.

**NOTICE**

The battery should be fully charged from a low state of charge within three hours to ensure the service life and maximum capacity of the battery.◀

**Technical data**

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**Radio connection**

Transmit power	<4 mW
Frequency range	2.402...2.483 GHz
Transmission method	FHSS (Frequency Hopping Spread Spectrum)
Bluetooth standard	4.1
Bluetooth class	max 4 mW, Class I
Bluetooth protocols	Headset, handsfree, A2DP, SPP

**Battery**

Battery type	NiMH (nickel metal hydride)
Battery capacity	2400 mAh
Charging port	Micro USB
Charging voltage	5 V
Charge current	max 1 A

### General information

Weight	approx. 160 g
Maximum permissible relative humidity	max 90 %, non-condensating
Ambient-temperature range	-20...60 °C, in operation 0...45 °C, when charging
Frequency response, voice	0.3...3.4 kHz
Frequency response, music	0.06...20 kHz

Technical data

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**Appendix**

Certificate for the BMW Motorrad  
communication system ..... 40

### **Helmet communication system**

European Union: Declaration of Conformity:



Hereby, Peiker acoustic GmbH declares that the radio equipment type BT HSG is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <http://www.valeo-clientportal.com>.

#### Manufacturer and Address:

Manufacturer: Peiker acoustic GmbH  
Address: Max-Planck-Strasse 28-32  
61381 Friedrichsdorf, Germany  
Phone:+49 6172 767 -0

#### **FCC Part 15.21 and 15.105 Notice**

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

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

#### **Canada, Industry Canada (IC) Notice**

This Class A digital apparatus complies with Canadian ICES-003

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Details described or illustrated in this booklet may differ from the vehicle's actual specification as purchased, the accessories fitted or the national-market specification. No claims will be entertained as a result of such discrepancies.

Dimensions, weights, fuel consumption and performance data are quoted to the customary tolerances.

The right to modify designs, equipment and accessories is reserved.

Errors and omissions excepted.

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Original operating instructions, printed in Germany.

For further information on the subject of equipment, visit  
[bmw-motorrad.com/equipment](http://bmw-motorrad.com/equipment)

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