

Rider's Manual
BMW Motorrad communication system



BMW Motorrad



The Ultimate
Riding Machine

Welcome to BMW Motorrad

We congratulate you on your choice of a BMW Motorrad communication system.

Familiarise yourself with all the applicable procedures before you use the system for the first time. These instructions for use contain the information you need, so please study them carefully.

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

We hope that you will enjoy using this communication system and that all your journeys will be pleasant and safe.

BMW Motorrad.

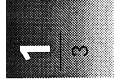
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General instructions


Overview

This part contains an overview of these instructions for use, along with some general information on the BMW Motorrad communication system. Before you can use your communication system as described in part 2, you must pair the devices as described in part 3 (→ 20). It is important to comply with the instructions for care and maintenance of the rechargeable batteries in part 4 (→ 28).

You can also consult the index at the end of these instructions for use if you want to find a particular item of information quickly. If, at some stage, you decide to sell your BMW Motorrad communication system, please remember to hand over these instructions for use; they are an important part of this system.

Abbreviations and symbols

 Indicates warnings that you must comply with for reasons of your safety and the safety of others, and to protect your motorcycle against damage.

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

◀ 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.


 Item of 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 ten metres.

The communication system is optimised for installation in BMW System helmets 5 and 6 and in the BMW Sport helmet. Different installation kits are available for the various 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 variations 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.

 The descriptions and graphics in these instructions for use refer specifically to the BMW System helmet 6. The functions as described here also apply to the

System helmet 5 and the BMW Sport helmet. ◀

Interference at the wind-protected bow-type microphone is automatically suppressed, so communication is possible even when riding at high speeds or (in the case of the System helmets), riding with the helmet's chin guard raised. Under these circumstances the microphone should be positioned as close as possible to the mouth.

Bluetooth

The term "Bluetooth" is adopted from the English translation of a name borne by a tenth-century Viking king of the Danes; Harald Blåtand or Harald Bluetooth was renowned for his communicativeness. Harald Bluetooth was responsible for the christianisation and unification of much of Denmark. The fact that Bluetooth technology derives its name from

Scandinavian history is a reflection of the extent to which the Ericsson company was involved in its development.


Bluetooth devices are short-range devices transmitting on the license-free ISM band (Industrial, Scientific, Medical) between 2.402 GHz and 2.480 GHz. They can be operated anywhere in the world without a license being required.

Note on health compatibility

The body of scientific data available at this time gives no grounds for assuming that Bluetooth can have negative effects on human health. The BMW Motorrad communication system transmits at a maximum of 2.5 mW; a mobile phone by contrast can have a transmit-power rating as high as 2 W.

The ISM frequency band used by Bluetooth is reserved for the world-wide use of devices in the industrial, scientific and medical sectors and given the low transmit-power ratings, Bluetooth devices are considered safe in terms of potential health risks.

Disposal

 If you want to dispose of your communication system at some future point in time: environmental-protection legislation does not permit items of electrical equipment to be disposed of as domestic waste. Hand in the communication system at an approved collection point for end-of-life electrical devices.

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

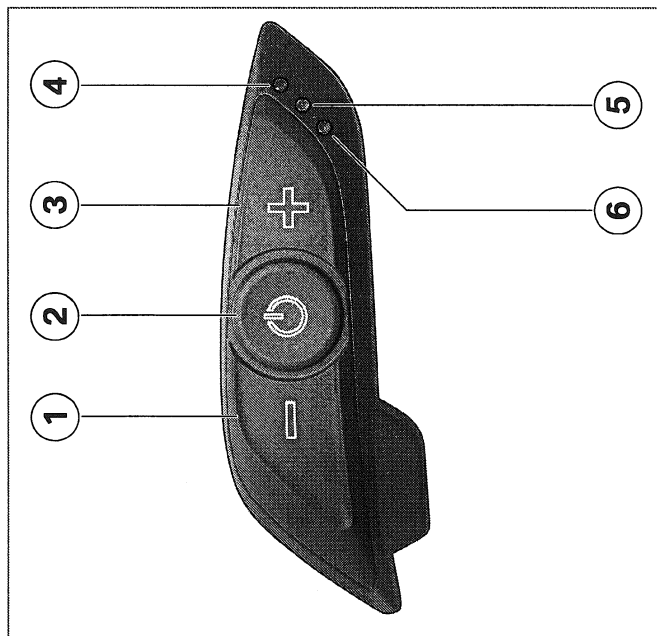
All dimensions, weights and power ratings stated in the instructions for use are quoted to the standards and comply with the tolerance requirements of the Deutsches Institut für Normung e.V. (DIN). Versions for individual countries may differ.

Operation

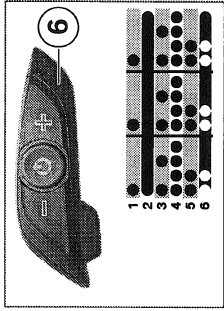
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Operating panel

- 1 Reduce volume (➡ 11)
- 2 Switch the communication system on or off (➡ 10)
Toggle between communication and music (➡ 15)
Use telephone functions (➡ 12)
- 3 Increase volume (➡ 11)
- 4 Red LED
Warning for low battery charge level (➡ 28)
- 5 Yellow LED
Indicator for 'battery charging in progress' (➡ 29)
- 6 Green LED
Indicator for operating status (➡ 9)



Status as indicated by the green LED



Green LED 6 indicates status as follows:

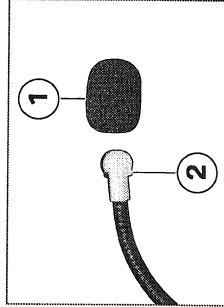
- 1
 - LED flashes once per second
 - The communication system is in standby mode
- 2
 - LED is ON
 - There is an active Bluetooth connection to a second communication system or to a telephone or navigation device

Closing System helmet

- Before closing the helmet, position the microphone in front of your mouth in such a way that the microphone cannot be trapped by the chin guard as you close it. Then grip the chin guard in the middle and close it.

Checking microphone alignment

- At regular intervals, check that the microphone is still correctly aligned relative to your mouth.



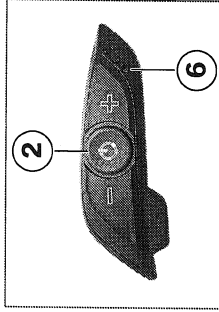
- Check by pulling wind baffle **1** off the microphone until white area **2** normally concealed by the baffle is visible.

The white area must be toward your mouth and the black area away from your mouth. If the microphone has twisted out of alignment:

- Align the swan-neck complete with microphone in such a way that the white part of the microphone is toward your mouth. Do not attempt to twist the microphone relative to the swan-neck. If necessary, seek the advice of a specialist work-

shop, preferably an authorised BMW Motorrad dealer.

Switching on communication system



- Press button **2** and hold it down until a high-pitched confirmation tone sounds and 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.

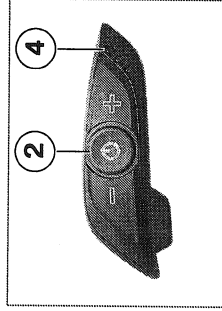
If the communication system does not switch on:

- Charging batteries (➔ 29).

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.

Switching off communication system



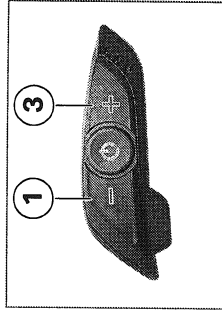
- Press button **2** and hold it down until a low-pitched con-

firmation tone sounds and red LED 4 starts flashing.

⚠ 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.

Adjusting volume



- Press button 1.

» The volume is reduced one level each time the button is pressed.

⚠ If the volume is set too high there is a possibility of not hearing other road users (particularly police vehicles or emergency-services vehicles). High sound levels maintained over lengthy periods, moreover, can cause permanent damage to the hearing.

Set the communication system to a volume at which the system's acoustic output does not interfere with your awareness of other road users. ◀

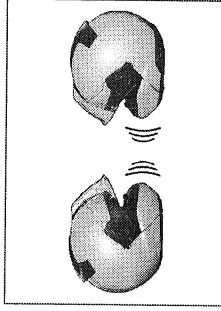
- Press button 3.

» The volume is increased one level each time the button is pressed.

2

Connection from helmet to helmet

Connection set-up



Connection set-up between two helmets takes place automatically as soon as both communication systems have been switched on.

⚠ Bluetooth devices have to be "introduced to each other" (paired) before they can set up a connection for the first time. ◀

Helmet-to-helmet communication is interrupted while a telephone conversation is in progress or for

Operation

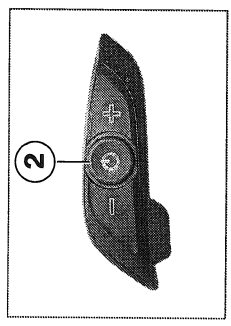
the duration of navigation-system announcements; in the second helmet an acoustic alert sounds to indicate that communication has been interrupted. Communication between the two helmets is restored as soon as the phone conversation or the announcement is over. The acoustic alert sounds again to indicate that the connection enabling the two helmets to communicate has been re-established.

Exception: Helmet-to-helmet communication is still possible while the BMW Motorrad Navigator IV issues its navigation announcements.

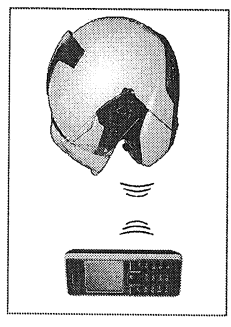
Operation

- Switch on the communication systems of both helmets.
- » As soon as the connection between the helmets has been established, the green LEDs light up and remain ON.

- If communication is not possible:
- Check both helmets to make sure that neither is in music mode.
 - If applicable, turn up the volume.
 - Checking microphone alignment (→ 9).



Connection from telephone to helmet
Connection set-up



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

The configuration settings and range of functions supported by the telephone determine whether or not connection set-up between the communication system and the telephone can take place automatically. Always refer to the instructions for use

- To interrupt the connection between the helmets, briefly press button **2** twice (music mode).
- To restore the connection between the helmets, again briefly press button **2** twice.

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.

△ Bluetooth devices have to be "introduced to each other" (paired) before they can set up a connection for the first time.◀

An incoming call is indicated for approximately five seconds by an acoustic alert and can be rejected within this period. If it is not rejected the incoming call is automatically accepted. Helmet-to-helmet communication and music playback are interrupted for the duration of the telephone call. An acoustic alert sounds in the second helmet to indicate that communication has been interrupted.

While the call is in progress the conversation can be passed back to the telephone so that the telephone can be used directly to conduct the conversation.

The call is ended as soon as the other party hangs up, but can also be terminated by means of the controls on the helmet or manually at any time.

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

Operation

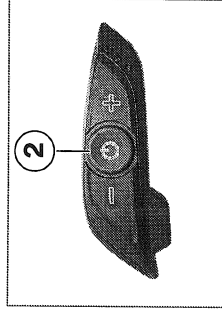
- Switch on the telephone and the communication system of the corresponding helmet.
- Check the telephone to make sure that the connection has been automatically established.

If there is no connection:

- Check the settings of the telephone.

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

- If necessary, manually establish the connection to the communication system.



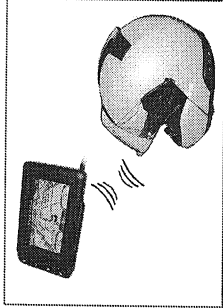
- To reject an incoming call during the time when the acoustic alert sounds, briefly press button 2.

- To pass an ongoing call back to the telephone, briefly press button **2**.
- To end a call, press and hold down button **2** (for about 2 seconds).

For technical reasons, a brief period might elapse after the button is pressed before the telephone actually terminates the call. ◀

Connection from navigation device to helmet

Connection set-up



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.

Bluetooth devices have to be "introduced to each other" (paired) before they can set up a connection for the first time. ◀

Music playback is interrupted for navigation announcements. If the navigation system is the BMW Motorrad Navigator IV helmet-to-helmet communication can continue, but it too is interrupted for announcements by any other navigation system. An acoustic alert sounds in the passenger's helmet to indicate that communication has been interrupted. 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 make sure that the connection has been automatically established.

If there is no connection:

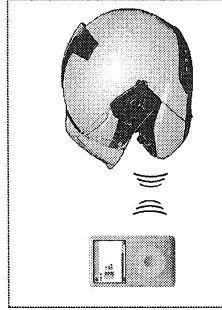
- Check the settings of the navigation device.

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


- If necessary, manually establish the connection to the communication system.

Connection from music playback device to helmet

Connection




Each helmet with a communication system can be paired with a music playback device of its own, but a music playback device can be paired with only one helmet. Bear in mind that A2DP is the only playback format supported.

 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 configuration settings and range of functions supported by the music playback device determine whether or not connection set-up between the helmet unit 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.

 Bluetooth devices have to be "introduced to each other" (paired) before they can set up a connection for the first time.◀

You must switch to music mode in order to listen to music. In this mode it is not possible to communicate with a second helmet.

Music mode is active by default if the communication system has not been paired with a second helmet. Music mode has to be activated manually if the helmet is paired to a second communication system.


Music playback is interrupted for the duration of a telephone conversation or a navigation-system announcement.

Operation

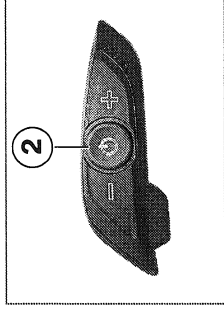
- Switch on the music playback device and the communication system.
- Check the music playback device to make sure that the connection has been established.

If there is no connection:

- Check the settings of the music playback device.

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

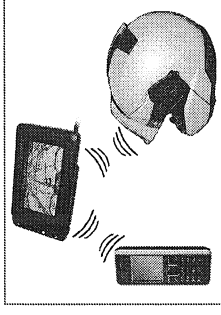
- If necessary, manually establish the connection to the communication system.



- To switch from communication mode to music mode, briefly press button **2** twice.
- To switch back to communication mode, again briefly press button **2** twice.

Connection between telephone, navigation device and helmet

Connection



Telephone and navigation device cannot both be connected at the same time to a single helmet with communication system. In order for both devices to be used, the telephone has to be linked into the Bluetooth network by being paired to the navigation device. The navigation device itself is paired to the communication system as described above (➡ 14). The telephone also has

to be connected to the navigation device. In a configuration of this nature, calls are indicated, accepted and ended through the navigation device.



Operation

2
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Operation



Pairing

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Pairing two helmets..... 20

Pairing telephone and helmet 22

Pairing navigation device and helmet 23

Pairing music playback device and helmet 24

Delete the pairing entries 25

Pairing

Two Bluetooth devices have to recognise each other before they can communicate. This process of mutual recognition is known as pairing. When two devices have paired they remember each other, so the pairing process is conducted only once, on initial contact.

The BMW Motorrad communication system can be paired to three different Bluetooth devices:

- another communication system
- an A2DP-compatible music player
- a mobile phone or a navigation device

In order for a mobile phone and a navigation system to be used at the same time, the telephone has to be integrated by being paired with the navigation system (see 16).

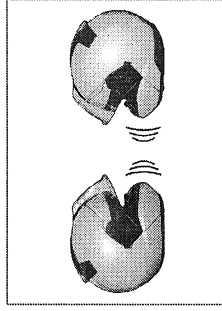
Only one device from each of the categories listed above can be stored in the communication system's memory at a time. Pairing with a second device belonging to a given category automatically overwrites the entry for the original device. If the original device is to be re-used at some subsequent point in time, it will have to be paired again to the communication system.

In the pairing process, a Bluetooth device searches for other Bluetooth-compatible devices within its reception range. The conditions that have to be satisfied before the searching device can recognise another Bluetooth device are as follows:

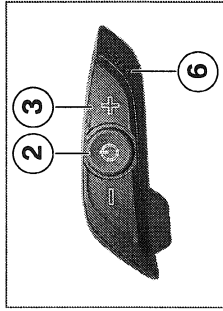
- The device's Bluetooth function must be active
- The device must be "visible" to others

Please consult the instructions for use of the devices in question for details. A list of compatible mobile phones is posted at www.bmw-motorrad.com.

Pairing two helmets



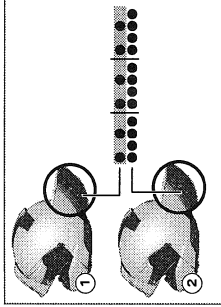
- Switch on the communication systems of both helmets.



- Simultaneously press button **2** and button **3** of one helmet and hold them down until green LED **6** doubles the rate at which it flashes (i.e. starts flashing at 2 Hz).
- » 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 button **2** and button **3** of the second helmet and hold them down until green LED **6** **twice** doubles the rate at which it

flashes (i.e. starts flashing at 4 Hz).

» 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 searching helmet **2** flashes twice as fast as the green LED of 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.

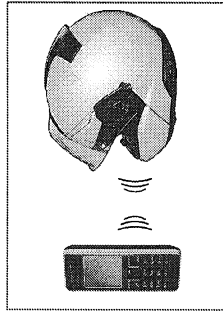
» If pairing fails the red LED of the searching helmet flashes three times and a low-pitched warning tone sounds. The green LED then switches to a slow flash, indicating that the system is on standby.

- If pairing is unsuccessful:
- Switch off all other Bluetooth devices in the immediate vicinity and try to pair the two helmets again.

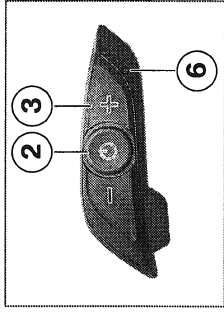
It can take some time for a Bluetooth device to be detected. It is always best to activate the search function as soon as possible after activating visibility, so that the searching device will have as long as possible to find the visible device.◀

- If pairing is again unsuccessful:
- Delete the pairing entries (→ 25).
 - Run the pairing procedure again.

Pairing telephone and helmet

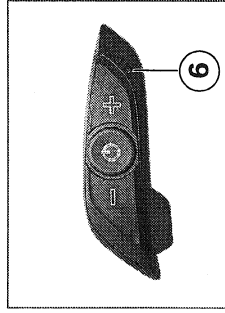


- If necessary, consult the instructions for use supplied with your telephone to find out about the device's Bluetooth functions.
- Switch on the communication system and the telephone.



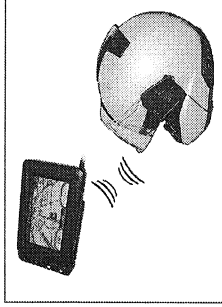
- Simultaneously press button **2** and button **3** of the communication system and hold them down until green LED **6** doubles the rate at which it flashes (i.e. starts flashing at 2 Hz).
- » The communication system is now visible to other Bluetooth devices for a maximum of 60 seconds; the green LED flashes at a rate of two flashes per second.
- Start the function that enables the telephone to search for other Bluetooth devices.

- 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 it is detected by the telephone, the communication system is listed as a headset identified by the designation "BMW_HELMET_IL_xxxx". The string "xxxx" stands for the ID number of the communication system.
- Enter the security code "0000" during the time in which the helmet is visible to the other Bluetooth device.

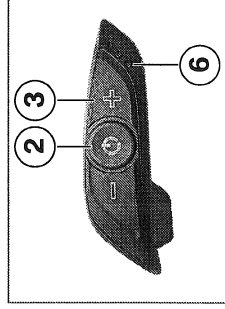


Green LED **6** shows briefly and a high-pitched confirmation tone sounds.

Pairing navigation device and helmet



- If necessary, consult the instructions for use supplied with your navigation device to find out about the device's Bluetooth functions.
- Switch on the communication system and the navigation device.



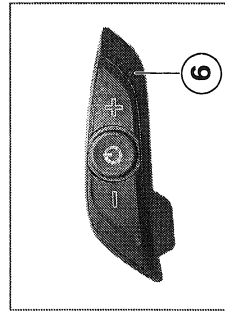
- Simultaneously press button **2** and button **3** of the communication system and hold them down until green LED **6** doubles the rate at which it flashes (i.e. starts flashing at 2 Hz).
 - » The helmet is now visible to other Bluetooth devices for a maximum of 60 seconds; the green LED flashes at a rate of two flashes per second.
- Start the function that enables the navigation device to search for other Bluetooth devices.

Pairing

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 it is detected by the navigation device, the communication system is listed as a headset identified by the designation "BMW_HELMET_IL_xxxx". The string "xxxx" stands for the ID number of the communication system.

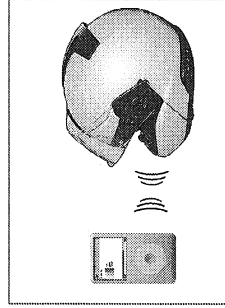
- Enter the security code "0000" during the time in which the helmet is visible to the other Bluetooth device.



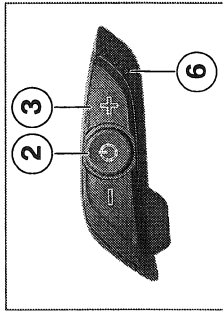
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Green LED **6** shows briefly and a high-pitched confirmation tone sounds.

Pairing music playback device and helmet



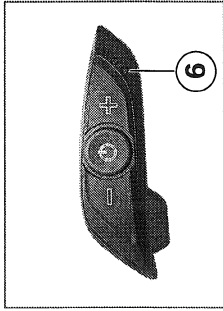
- If necessary, consult the instructions for use supplied with your music playback device to find out about the device's Bluetooth functions and A2DP compatibility.
- Switch on the communication system and the music playback device.



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 it is detected by the music playback device, the communication system is listed as a headset identified by the designation "BMW_HELMET_IL_xxxx". The string "xxxx" stands for the ID number of the communication system.

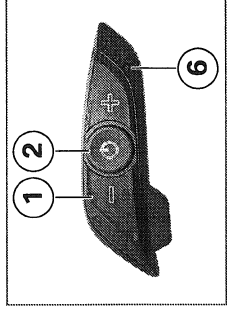
- Simultaneously press button **2** and button **3** of the communication system and hold them down until green LED **6** doubles the rate at which it flashes (i.e. starts flashing at 2 Hz).
- » The communication system is now visible to other Bluetooth devices for a maximum of 60 seconds; the green LED flashes at a rate of two flashes per second.
- Start the function that enables the music playback device to search for other Bluetooth devices.



Green LED **6** shows briefly and a high-pitched confirmation tone sounds.

Delete the pairing entries

- Switch on the communication system.



Pairing

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



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.

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Battery maintenance

The BMW Motorrad communication system has three NiMH rechargeable batteries with a total capacity of 1800 mAh. NiMH rechargeables do not have a memory effect, so they can be recharged at any time. Charge-control electronics prevent overcharging: the charger switches automatically to float charge as soon as the batteries have recharged.

The batteries have to be fully discharged and then recharged at least 20 times in order for them to achieve their maximum capacity. It takes from four to eight hours for a discharged battery to recharge; fully charged batteries enable the system to operate for ten to twelve hours.

To prevent premature ageing, rechargeable batteries 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.


 Incorrect charging can cause damage to the batteries.

Use only the charger supplied or a USB cable to recharge the batteries.◀

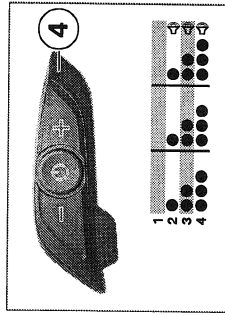
The USB connector that functions as the charging adapter tucks underneath your helmet's neck pad. You can recharge the batteries with this adapter connector to either the charging cable supplied with the communication system or a communication system or a com-

mercially available USB cable for connection to a computer.

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



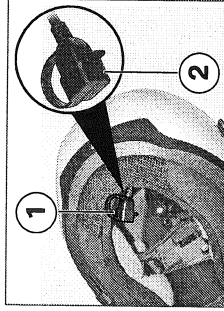
Red LED 4 indicates the charge status of the rechargeable batteries. If the battery drains to the extent that charge status drops to a critical limit, a low-toned buzzer sounds and the words "low battery" are spoken as an acoustic reminder.

- 1
 - LED is OFF
 - Charge status adequate

- 2
 - LED flashes once every two minutes
 - Simultaneous low-toned buzzer and "low battery" spoken reminder
 - Battery charge is sufficient for a maximum of 20 minutes' operating time
- 3
 - LED flashes twice every 60 seconds
 - Simultaneous low-toned buzzer and "low battery" spoken reminder
 - Battery charge is sufficient for a maximum of ten minutes' operating time
- 4
 - LED flashes three times every 30 seconds
 - Simultaneous low-toned buzzer and "low battery" spoken reminder

- Battery charge is sufficient for a maximum of five minutes' operating time

Charging batteries

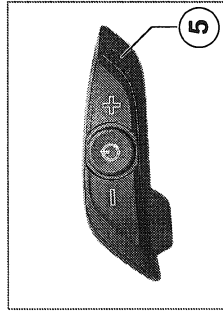


- Pull charging adapter 1 out from underneath the right cheek pad and remove protective cap 2.

! The socket used for charging the NiMH rechargeable batteries must be close by and readily accessible. Note the permissible temperature range for charging the rechargeable batteries (see

Power supply

- the section entitled "Technical data").
- Connect the charging cable supplied to the charging adapter and a power socket.
 - Alternatively, use a USB cable to connect the charging adapter to a computer and switch on the computer.



Yellow LED **5** is constantly ON while charging is in progress. As soon as the LED goes out charging has completed and the charge-control electronics switch to float charge.

- Disconnect the plug, close the protective cap and tuck the charging adapter back into position under the neck pad.

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Radio connection

Transmit power	<2.5 mW
Frequency range	2.402...2.483 GHz
Transmission method	FHSS (Frequency Hopping Spread Spectrum)
Bluetooth standard	2.0
Bluetooth class	max 2.5 mW, Class II
Bluetooth protocols	Headset, handsfree, A2DP, SPP

Rechargeable batteries

Battery type	NiMH (nickel metal hydride) rechargeable battery
Battery size	AA (Mignon)
Battery capacity	1800 mAh

General

Weight	150 g
Maximum permissible relative humidity	max 90 %, non-condensating
Ambient-temperature range	-20...50 °C, in operation 0...45 °C, when charging
Frequency response, voice	0.3...3.4 kHz
Frequency response, music	0.06...20 kHz

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Details described or illustrated in this booklet may differ from the motorcycle'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.

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