



**BMW
MOTORRAD**

RIDER'S MANUAL

(US MODEL)

K 1600 GT



MAKE LIFE A RIDE

Motorcycle Data

- Model
- Vehicle identification number
- Color number
- Initial registration
- License plate

Retailer Data

- Contact in Service
- Ms./Mr.
- Phone number
- Retailer's address/phone number (company stamp)

WELCOME TO BMW

We are pleased that you have chosen a BMW Motorrad vehicle and welcome you to the family of BMW drivers. Familiarize yourself with your new vehicle so that you can ride safely and confidently in all traffic situations.

About these operating instructions

Read these operating instructions before starting your new BMW. It contains important notes about operating the vehicle that will enable you to make full use of the technical assets of your BMW.

You will also obtain preventive maintenance and care instructions, which are beneficial to operating and road safety and help retain the value of your vehicle as much as possible.

If you should decide to sell your BMW one day, please remember to hand over these operating instructions as well. They are an important part of your vehicle.

We wish you many miles of safe and enjoyable driving with your BMW

BMW Motorrad.

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4 GENERAL INSTRUCTIONS

QUICK & EASY REFERENCE

Chapter 2 of these operating instructions will provide you with an initial overview of your motorcycle. All maintenance and repair procedures carried out on your motorcycle will be documented in the chapter "Service". Documentation of the maintenance work performed is a prerequisite for generous treatment of claims. If you should decide to sell your BMW at some point in the future, please remember to hand over these operating instructions; they are an important part of the motorcycle.

ABBREVIATIONS AND SYMBOLS

 **CAUTION** Hazard with low risk. Failure to avoid this hazard can result in minor or moderate injury.

 **WARNING** Hazard with moderate risk. Failure to avoid this hazard can result in death or serious injury.

 **DANGER** Hazard with high risk. Failure to avoid this hazard results in death or serious injury.



ATTENTION Special instructions and precautionary measures. Non-compliance can cause damage to the vehicle or accessories and warranty claims may be denied as a result.



NOTICE Special information on operating and inspecting your motorcycle as well as maintenance and adjustment procedures.

- Instruction.
- » Result of an activity.
- ⇒ Reference to a page with more detailed information.
- ◁ Indicates the end of accessory or equipment-dependent information.
-  Tightening torque.
-  Technical data.
- NV National-market version.

OE	Optional equipment. BMW Motorrad optional equipment is already completely installed during motorcycle production.
OA	Optional accessories. BMW Motorrad optional accessories can be purchased and retrofitted at your authorized BMW Motorrad retailer.
ABS	Anti-Lock Brake System.
DTC	Dynamic Traction Control.
DWA	Anti-theft alarm.
ESA	Electronic Suspension Adjustment.
EWS	Electronic immobilizer.
TPC	Tire Pressure Control (TPC).

EQUIPMENT

When you ordered your BMW Motorrad motorcycle, you chose various items of custom equipment. These operating instructions describe optional equipment (OE) offered by BMW and selected

optional accessories (OA). This explains why the manual may also contain descriptions of equipment which you have not ordered. Please note, too, that your motorcycle might not be exactly as illustrated in this manual on account of country-specific differences. If your motorcycle features equipment that is not described here, you can find these features described in a separate manual.

TECHNICAL DATA

All dimensions, weights and performance data contained in these operating instructions refer to the German Institute for Standardization i.e. DIN (Deutsches Institut für Normung e. V.) and comply with their tolerance specifications. The technical data and specifications in these operating instructions serve as points of reference. The vehicle-specific data may vary, for instance due to the selected optional equipment, national-market version or country-specific measuring procedures. Detailed values can be obtained from the registration documents or requested from your BMW Motorrad re-

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tailer or other qualified service partner or specialist workshop. The information on the vehicle documents always takes precedence over the information in these operating instructions.

TIMELINESS OF THE STATUS OF THIS MANUAL

The high safety and quality level of BMW motorcycles are ensured by consistent, ongoing development efforts embracing their design, equipment and accessories. For this reason, some aspects of your motorcycle may vary from the descriptions in these operating instructions. In addition, BMW Motorrad cannot guarantee the total absence of errors. We hope you will appreciate that no claims can be recognized that are based on the data, illustrations or descriptions in this manual.

ADDITIONAL SOURCES OF INFORMATION

BMW Motorrad retailer

Your BMW Motorrad retailer is always happy to answer any of your questions.

Internet

The Operating Instructions for your motorcycle, the operating and installation instructions for optional accessories and general BMW Motorrad information related to the technology or other features are available at **bmw-motorrad.com/manuals**.

CERTIFICATES AND OPERATING PERMITS

The certificates for the vehicle and the official operating permits for possible accessories are available at **bmw-motorrad.com/certification**.

DATA MEMORY

General information

Control units are installed in the vehicle. Control units process data received from vehicle sensors, self-generated data or data exchanged between control units, for example. Some control units are required for safe vehicle operation or provide riding assistance, such as driver assistance systems. Control units also make comfort and infotainment functions possible.

Information about the stored or exchanged data can be ob-

tained from the vehicle manufacturer, such as in the form of a separate booklet.

Personal references

Every vehicle is marked with a unique vehicle identification number. Depending on the country, the vehicle owner can be identified using the vehicle identification number and license plate and with the help of the relevant authorities. There are also other ways to trace data obtained from the vehicle back to the driver or vehicle owner, such as via the ConnectedDrive Account that was used.

Data privacy laws

In accordance with applicable data privacy laws, vehicle users have certain rights over the vehicle manufacturer or company that collects or processes personal data.

Vehicle users have the right to obtain comprehensive information without charge from the locations that store the vehicle user's personal data.

These locations may be:

- The vehicle manufacturer
- Qualified service partners
- Specialist workshops
- Service providers

Vehicle users may request information about the type of personal data that is stored, the purpose for which the data will be used and the source of the data. This information can only be obtained by a registered owner or a person with written proof authorizing use of the vehicle.

The right to information also includes information related to data transmitted to other companies or locations.

The vehicle manufacturer's website contains the appropriate privacy policy notices.

The privacy policy notices contain information on the right to delete or correct data. The vehicle manufacturer also provides the manufacturer contact information and the contact information of the data security officer.

The vehicle owner can have a BMW Motorrad retailer or other qualified service partner or specialist workshop read out the data stored in the vehicle for a fee if required.

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The vehicle data is read out via the vehicle's legally mandated socket for onboard diagnosis (OBD).

Legal requirements for the disclosure of data

The vehicle manufacture is required by the law applicable in this context to provide authorities with the data stored by the manufacturer. Providing this data within the scope required is on a case-by-case basis, for instance to clarify a criminal offense.

Government agencies are authorized by the law applicable in this context to read out the data from the vehicle themselves in individual cases.

Operating data in the vehicle

Control units process data so that the vehicle can run.

Examples of this include:

- Status messages from the vehicle and its individual components, such as wheel RPM, wheel speed and deceleration
- Environmental conditions, such as temperature

The data is processed only in the vehicle itself and is usually temporary. The data is not stored beyond the period in which the vehicle is operating.

Electronic components such as control units contain components for storing technical information. This may be information about the vehicle's condition, component load, events or faults stored temporarily or permanently.

This information generally documents the condition of a component, module, system or the surrounding area; for example:

- Operating conditions of system components, such as fill levels and tire pressure
- Malfunctions and faults in key system components, such as lights and brakes
- Vehicle responses in specific riding situations, such as the activation of driving stability control systems
- Information about events causing damage to the vehicle

The data is necessary for providing control unit functions. In addition, it is used by the vehicle manufacturer to detect and eliminate malfunctions as well as to optimize vehicle functions.

The majority of this data is temporary and is processed only within the vehicle itself. Only a small amount of event-driven data is stored in the

event data recorder and fault memory.

When a vehicle is serviced, such as for repairs, servicing processes, warranty cases and quality assurance measures, this technical information can be read out from the vehicle together with the vehicle identification number.

The information can be read out by a BMW Motorrad retailer or other qualified service partner or specialist workshop. The vehicle's legally mandated socket for onboard diagnosis (OBD) is used to read out the data.

The data is collected, processed and used by the respective retailer network locations. The data documents the vehicle's technical states and helps with fault finding, compliance with warranty obligations and quality improvements.

The manufacturer also has product monitoring obligations arising from product liability law. The vehicle manufacturer requires technical data from the vehicle in order to fulfill these obligations. The data from the vehicle can also be

used to verify customer warranty and guarantee claims. The fault memory and event data recorder in the vehicle can be reset by a BMW Motorrad retailer or other qualified service partner or specialist workshop as part of a repair or servicing.

Data input and data transfer in the vehicle

General information

Depending on the equipment, comfort settings and individualized settings in the vehicle can be saved and changed or reset at any time.

Examples of this include:

- Windshield position settings
- Chassis and suspension adjustment settings

It is possible to introduce data into the vehicle entertainment and communication system via a smartphone, for instance. Depending on the individual equipment, this includes:

- Multimedia data, such as music for playback
- Address book data for use in conjunction with a communication system or integrated navigation system
- Entered navigation destinations

10 GENERAL INSTRUCTIONS

- Data about the use of Internet services. This data can be stored locally in the vehicle or is on a device connected to the vehicle, such as a smartphone, USB stick or MP3 player. If this data is saved in the vehicle, it can be deleted at any time.

This data is transmitted to third parties only upon personal request as part of the use of online services. The data transmitted depends on the selected settings when using the services.

Integrating mobile end devices

Depending on the equipment, mobile end devices connected to the vehicle, such as smartphones, are controlled using the vehicle's operating elements.

This enables audio and visual output from mobile end devices through the multimedia system. At the same time, certain information is transmitted to the mobile end device. This includes for instance position data and other general vehicle data, depending on the type of integration, and makes it possible to optimize the use of se-

lected apps, such as those for navigation or audio playback. The way the data is processed further is determined by the provider of the particular app used. The range of possible settings depends on the particular app and the operating system of the mobile end device.

Services

General information

If the vehicle has a mobile phone connection, this connection makes it possible to exchange data between the vehicle and other systems. The mobile phone connection is made possible through the vehicle's transmitter and receiver or via personally integrated mobile end devices such as smartphones. Online functions, as they are called, are used over this mobile phone connection. These include online services and apps provided by the vehicle manufacturer or other providers.

Vehicle manufacturer services

In the case of the vehicle manufacturer's online services, the particular functions are described at the appropriate location, such as in the operating instructions or on manufactur-

er's website. The relevant legal information on data privacy is also provided there. Personal data may be used in order to provide online services. The data is exchanged over a secure connection, i.e. with the vehicle manufacturer's IT systems which are intended for this purpose.

Any collection, processing and use of personal data that goes beyond the provision of services take place only as permitted by law, on the basis of a contractual agreement or as a result of consent. It is also possible to have the entire data connection activated or deactivated. This is not the case for legally prescribed functions.

Services of other providers

When using the online services of other providers, these services are subject to the responsibility and the data protection and usage conditions of the respective provider. The vehicle manufacturer has no control over the content exchanged via these services. Information about the type, scope and purpose of collecting and using personal data as part of third-party services can be

obtained from the particular service provider.

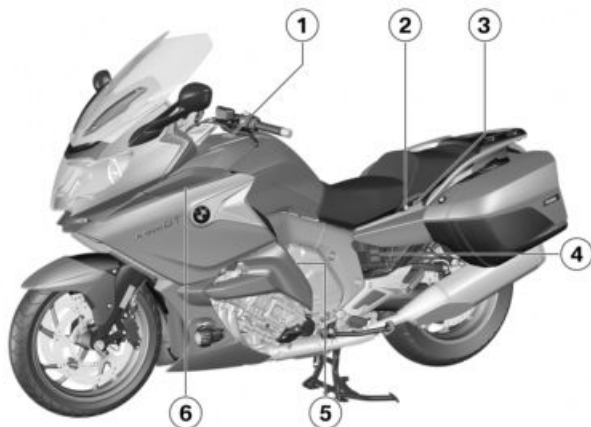
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OVERALL VIEW, LEFT SIDE



- 1** Fuel filler opening
(126)
- 2** Seat lock (109)
- 3** Operation of the passenger seat heating (on the passenger seat) (86)
- 4** Payload table
Tire inflation pressure table
- 5** Storage compartment
(87)
- 6** Wind deflection wing
(109)

OVERALL VIEW, RIGHT SIDE

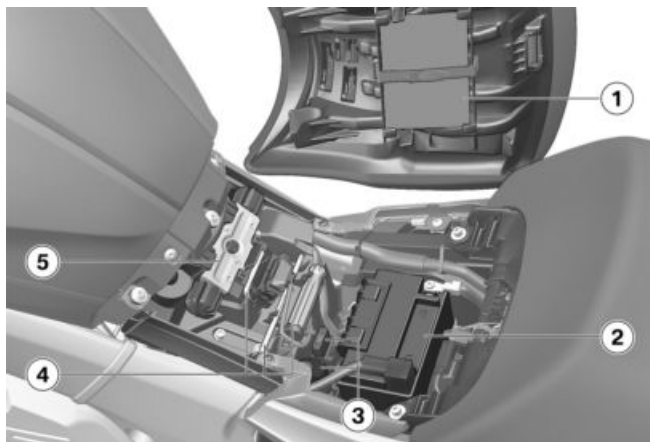
- | | |
|--|---|
| 1 Vehicle identification number (above the engine oil filler opening) | 9 Brake fluid reservoir for rear wheel brake (→ 155) |
| 2 Storage compartment (→ 87) | |
| 3 Onboard power sockets (→ 178) | |
| 4 Brake fluid reservoir for front wheel brake (→ 154) | |
| 5 Coolant level indicator (behind side panel) (→ 156) | |
| 6 Nameplate (at the front suspension) | |
| 7 Wind deflection wing (→ 109) | |
| 8 Engine oil filler opening and oil dipstick (→ 150) | |

16 OVERVIEWS

GENERAL VIEW FROM ABOVE



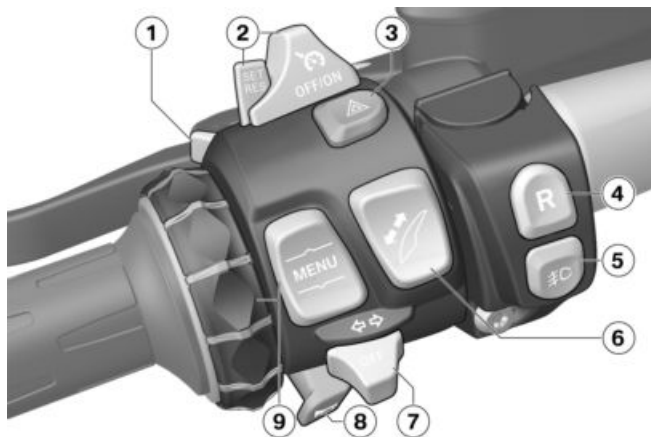
- 1 Speaker
- 2 Multifunction display
(27)
- 3 Storage compartment with
plug connector (104)
- 4 Control unit (20)
- 5 Multifunction switch, left
(18)

UNDERNEATH THE SEAT

- 1 Operating instructions
- 2 Battery (➡ 170)
- 3 Fuses (➡ 173)
- 4 Standard tool kit (➡ 148)
- 5 Seat height adjustment
(➡ 110)

18 OVERVIEWS

MULTIFUNCTION SWITCH, LEFT



- | | |
|--|--|
| 1 High beams and headlight flasher (➡ 61) | 9 Multi-Controller and MENU button |
| 2 Cruise control (➡ 77) | Multifunction display (➡ 65) |
| 3 Hazard warning flasher (➡ 63) | - with audio system US version with navigation preparation ^{OE} |
| 4 Reverser (➡ 60) | Audio system (➡ 90) |
| 5 Auxiliary headlight (➡ 62) | DTC (➡ 74) |
| 6 Windshield (➡ 108) | ESA (➡ 75) |
| 7 Turn indicators (➡ 64) | |
| 8 Horn | |

MULTIFUNCTION SWITCH, RIGHT

- 1** Central locking system
(80)
- 2** Setting riding mode
(76)
- 3** Emergency on/off switch
(kill switch) (59)
- 4** Starting the engine
(119)

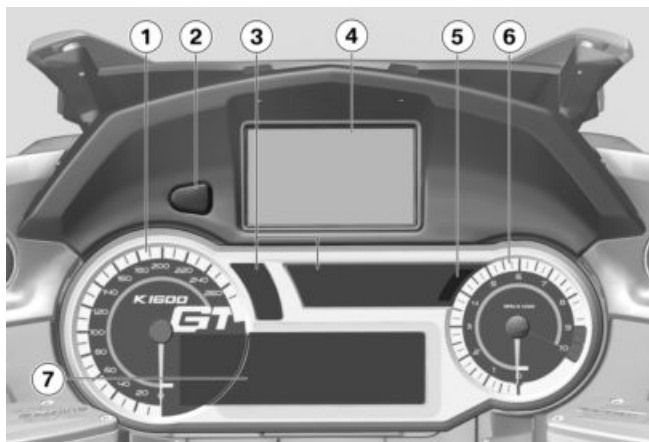
20 OVERVIEWS

CONTROL UNIT



- | | | | |
|----------|---|----------|--|
| 1 | Switching on audio system (➡ 92)
Switching off audio system (➡ 92)
Mute (MUTE) (➡ 93) | 4 | Finding and saving stations automatically (➡ 95)
Manually storing stations (➡ 96) |
| 2 | Select playback source (➡ 92) | | |
| 3 | Searching for station manually (➡ 96)
Playing stored station (➡ 97)
Selecting tuner mode for satellite radio (not available in all countries) (➡ 100) | | |

INSTRUMENT CLUSTER



- 1 Speedometer
- 2 Unlocking for navigation slot
- 3 Indicator and warning lights (➡ 24)
- 4 Navigation device (➡ 185)
- 5 Ambient light sensor (for adjusting brightness of the instrument lighting)
- 6 Tachometer
- 7 Multifunction display (➡ 27)

adapted automatically to suit ambient brightness.

 The brightness of the indicator and warning lights, the display and the instrument needle and gage lighting is

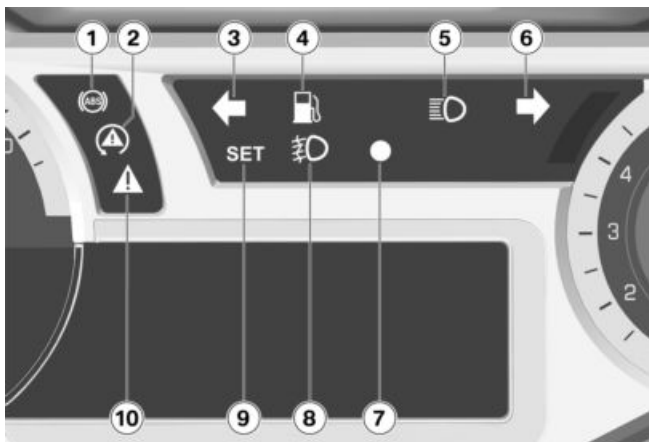
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24 DISPLAYS

INDICATOR AND WARNING LIGHTS

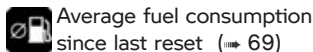


- 1** ABS (➡ 44)
- 2** DTC (➡ 45)
- 3** Turn indicator, left
- 4** Fuel reserve (➡ 46)
- 5** High beams
- 6** Turn indicator, right
- 7** Anti-theft alarm system (➡ 71)
- 8** Auxiliary headlight (➡ 62)
- 9** Adaptive cruise control (➡ 77)
- 10** General warning light, in conjunction with warning symbols on display (➡ 28)

MEANING OF SYMBOLS



Meaning of the symbols at position 1:



Average fuel consumption since last reset (→ 69)



Current fuel consumption



Range with fuel quantity now on board (→ 46)



Average speed since last reset (→ 69)



Ambient temperature (→ 35)

- with tire pressure monitor (TPM)^{OE}



Tire pressures (→ 38)



Stopwatch (→ 69)



Travel times (→ 70)



Date (display mode depends on the time format selected) (→ 68)



Vehicle voltage



Oil level (→ 37)



2 Passenger seat heating turned on

3 Heated grips turned on

4 Rider's seat heating turned on

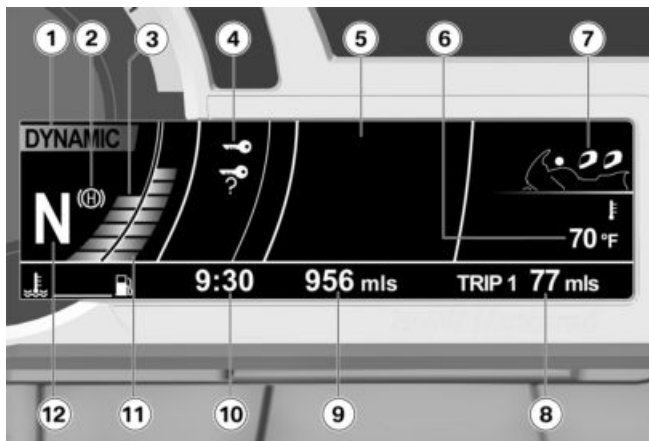
26 DISPLAYS



5 Damping

6 Load

MULTIFUNCTION DISPLAY



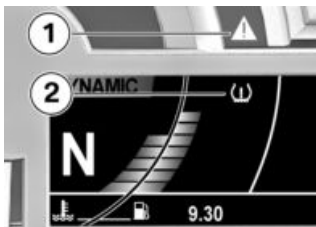
- | | |
|---|--|
| <p>1 Riding mode (➡ 76)</p> <p>2 Hill Start Control Pro (➡ 79)</p> <p>3 Coolant temperature</p> <p>4 Indicator lights (➡ 28)</p> <p>5 Menu area (➡ 65)
- with audio system US version with navigation preparation^{OE}
Audio system (➡ 90)</p> <p>6 On-board computer (➡ 69)
- with tire pressure monitor (TPM)^{OE}
RDC readings</p> <p>7 Seat heating (➡ 85)
Grip heating (➡ 84)
ESA settings (➡ 75)</p> | <p>8 Trip distance (➡ 70)</p> <p>9 Total mileage</p> <p>10 Clock (➡ 68)</p> <p>11 Fuel level</p> <p>12 Gear display, "N" indicates "neutral".</p> |
|---|--|

28 DISPLAYS

INDICATOR LIGHTS

Display

Warnings are displayed with the corresponding warning lamps.



Warnings for which there is no dedicated warning light are indicated by 'General' warning light **1** showing in combination with a warning symbol such as, for example, **2** appearing in the multifunction display. The universal warning lamp shows red or yellow, depending on the urgency of the warning. Up to four warning symbols can be displayed at any given time. The universal warning lamp lights up for the most urgent warning.

The possible warnings are listed on the following pages.

Overview of warning indicators

Indicator and warning lights	Display text	Meaning
	 The ice crystal symbol is displayed.	Outside temperature warning (→ 35)
 The general warning light lights up yellow.	 The key symbol is displayed.	Electronic immobilizer is active (→ 35)
	 The "remote key outside reception area" symbol is displayed.	Radio-operated key outside reception range (→ 36)
	 The battery symbol is displayed.	Replace battery of radio-operated key (→ 36)
 The general warning light lights up red.	The temperature display is shown in red.	Coolant temperature too high (→ 36)
 The general warning light lights up yellow.	 The engine symbol appears on the display.	Engine fault (→ 37)
 The general warning lamp flashes yellow.	 The engine symbol appears on the display.	Severe engine fault (→ 37)

30 DISPLAYS

Indicator and warning lights	Display text	Meaning
	 The oil can symbol is displayed.	Engine-oil level too low (→ 38)
 The general warning light flashes red.	 The tire symbol is displayed. The critical tire pressure is displayed in red.	Tire inflation pressure is outside approved range (→ 39)
 The general warning light lights up yellow.	 The tire symbol and "---" or "-- ---" are displayed.	Sensor defective or system fault (→ 39)
	 The tire symbol and "---" or "-- ---" are displayed.	Transmission fault (→ 40)
 The general warning light lights up yellow.	 The TPM battery symbol appears on the display.	Battery of tire-inflation pressure sensor weak (→ 40)
 The general warning light lights up red.	 Headlamp with question mark appears on the display.	Light direction of the low-beam headlight not known (→ 41)
 The general warning lamp flashes yellow.	 Headlamp with zero appears on the display.	Beam-throw adjustment of the low-beam headlight restricted (→ 41)
	 Headlamp with Left/Right appears on the display.	Headlight aiming changed (→ 41)

Indicator and warning lights	Display text	Meaning
 The general warning light lights up yellow.	 Bulb symbol with arrow pointing to the rear appears on the display.	Rear light failure (→ 42)
 The general warning light lights up yellow.	 Bulb symbol with arrow pointing to the front appears on the display.	Front light failure (→ 42)
 The general warning light lights up yellow.	 Bulb symbol with two arrows appears on the display.	Light failure (→ 42)
	 The split battery symbol appears on the display.	Onboard system voltage low (→ 42)
 The general warning light lights up yellow.	 The split battery symbol appears on the display.	Onboard system voltage critical (→ 43)
 The general warning light lights up red.	 The battery symbol is displayed.	Battery charge current insufficient (→ 43)
	 The anti-theft alarm system battery symbol appears on the display.	Anti-theft alarm battery low charge (→ 43)

32 DISPLAYS

Indicator and warning lights	Display text	Meaning
 The general warning light lights up yellow.	 The anti-theft alarm system battery symbol appears on the display.	Anti-theft alarm battery drained (→ 44)
	 The locked symbol appears on the display.	Central locking locked (→ 44)
 The ABS indicator and warning light flashes.		ABS self-diagnosis not completed (→ 44)
 The ABS indicator and warning light up.		ABS error (→ 44)
 The DTC indicator light flashes rapidly.		DTC intervention (→ 45)
 The DTC indicator light flashes slowly.		DTC self-diagnosis not completed (→ 45)
 The DTC indicator light lights up.		DTC deactivated (→ 45)

Indicator and warning lights	Display text	Meaning
 The DTC indicator light lights up.		DTC error (→ 45)
 The general warning light lights up yellow.	 The D-ESA fault symbol is displayed.	D-ESA fault (→ 45)
 Fuel reserve symbol lights up.	The fuel-level reading is displayed in yellow.	Fuel down to reserve (→ 46)
	 Green stop symbol is displayed.	Hill Start Control Pro active (→ 47)
	 White stop symbol is displayed.	Hill Start Control Pro is active automatically (→ 47)
	 Yellow stop symbol is displayed.	Hill Start Control Pro cannot be activated (→ 47)
 The general warning lamp flashes yellow.	 Stop symbol flashes briefly.	Hill Start Control Pro is automatically deactivated (→ 47)
 The general warning light lights up yellow.	 The brake temperature symbol is displayed.	Brake temperature too high (→ 47)

34 **DISPLAYS**

Indicator and warning lights	Display text	Meaning
 The general warning light briefly lights up yellow.	 The service symbol is displayed.	Service overdue (→ 49)

Ambient temperature



Engine heat can lead to spurious readings of ambient temperature when the motorcycle is stationary. When the effects of engine heat on the monitored temperature become excessive the display responds by temporarily reverting to "--" as the display reading.



If the ambient temperature drops below 37 °F (3 °C), this warning of possible ice formation appears. The display automatically switches from any other mode to the temperature reading when the temperature drops below this threshold for the first time.

Outside temperature warning



The ice crystal symbol is displayed.

Possible cause:

The ambient temperature measured at the vehicle is lower than 37 °F (3 °C).



WARNING

Risk of black ice, even above 37 °F (3 °C)

Accident hazard

- At a low outside temperature, icy conditions must be expected on bridges and in shady road areas.

- Think well ahead when driving.

Electronic immobilizer is active



The general warning light lights up yellow.



The key symbol is displayed.

Possible cause:

The ignition key being used is not authorized for a start, or communication between the ignition key and the engine electronics is disrupted.

- Remove other ignition keys from the ignition key ring.
- Use the spare key.
- Have the defective ignition key replaced, preferably by an authorized BMW Motorrad retailer.

36 DISPLAYS

Radio-operated key outside reception range

– with Keyless Ride^{OE}



The "remote key outside reception area" symbol is displayed.

Possible cause:

The communication between the radio-operated key and the engine electronics is faulty.

- Check the battery in the radio-operated key.
- Use the spare key for further travel.

– with Keyless Ride^{OE}

- Battery of the radio-operated key is drained or the radio-operated key is lost (→ 57).
- If the warning symbol appears while riding, remain calm. You can continue riding, the engine will not turn off.
- Have any faulty radio-operated keys replaced by a BMW Motorrad retailer.

Replace battery of radio-operated key

– with Keyless Ride^{OE}



The battery symbol is displayed.

Possible cause:

- The battery for the key fob transmitter is no longer charged to full capacity. Operation of the key fob transmitter is only ensured for a limited time.

Coolant temperature too high



The general warning light lights up red.

The temperature display is shown in red.



ATTENTION

Riding with overheated engine

Engine damage

- Be sure to observe the measures listed below.

Possible cause:

The coolant temperature is too high.

- If possible, continue driving in the part-load range to cool down the engine.
- In traffic jams, switch off the engine, but keep the ignition switched on so that the radiator fan continues to operate.
- Should the coolant temperature frequently be too high, have the fault rectified as quickly as possible by an authorized workshop, preferably

an authorized BMW Motorrad retailer.

Engine fault



The general warning light lights up yellow.



The engine symbol appears on the display.

Possible cause:

The engine control unit has diagnosed a fault.



WARNING

Unusual handling when the engine is in emergency operation

Accident hazard

- Avoid rapid acceleration and passing maneuvers.

- The engine may behave unexpectedly with continued driving (low power, poor response characteristics, abrupt stalling and the like).
- Have the malfunction corrected as soon as possible at an authorized service facility, preferably an authorized BMW Motorrad Retailer.

Severe engine fault



The general warning lamp flashes yellow.



The engine symbol appears on the display.

Possible cause:

The engine control unit has diagnosed a serious fault.



WARNING

Damage to engine during emergency operation

Accident hazard

- Drive slowly and avoid rapid acceleration and passing maneuvers.
- If possible, have the vehicle picked up and the fault eliminated at a specialist workshop, preferably an authorized BMW Motorrad retailer.

- The engine may behave unexpectedly with continued driving (low power, poor response characteristics, abrupt stalling and the like).
- Have the malfunction corrected as soon as possible at an authorized service facility, preferably an authorized BMW Motorrad Retailer.

Electronic oil-level check



The electronic oil-level check provides information on the oil level in the engine.

38 DISPLAYS

The following conditions must be satisfied in order to use the electronic oil-level check:

- Engine at operating temperature.
- Engine idling for at least ten seconds.
- No brake applied.
- Side stand retracted.
- The motorcycle is standing upright.

The readings mean:

OK: oil level correct.

CHECK!: check the oil level during the next refueling stop.

-- --: no measurement possible (above-mentioned conditions not met).

Engine-oil level too low



The oil can symbol is displayed.

Possible cause:

The electronic oil level sensor has detected that the engine's oil level is too low. Check the engine oil level with the dipstick the next time you stop to refuel:

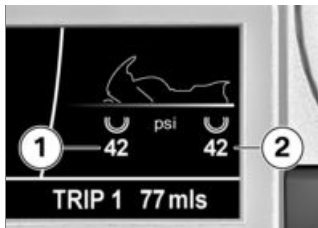
- Checking engine oil level (150).

If oil level is too low:

- Topping up engine oil (151).

tire pressures

- with tire pressure monitor (TPM)^{OE}



The displayed tire pressures refer to a tire temperature of 68 °F (20 °C). The left value **1** represents the tire pressure of the front wheel; the right value **2** the tire pressure of the rear wheel. "-- --" is displayed after the ignition is switched on, as the tire pressure values are not transmitted until a speed of 19 mph (30 km/h) is exceeded for the first time.

If the pressure in a tire drops to a critical level, the corresponding display shows red.



The tire warning symbol also appears on the display.



The general warning light flashes red.

Additional information about the BMW Motorrad TPM is provided starting on page (→ 141).

Tire inflation pressure is outside approved range

– with tire pressure monitor (TPM) ^{OE}



The general warning light flashes red.



The tire symbol is displayed. The critical tire pressure is displayed in red.

Possible cause:

The measured tire inflation pressure is outside the approved tolerance range.

- Check tire for damage and suitability for continued use. If it is still possible to drive with tire:



WARNING

Tire pressure is outside the approved tolerance range.

Risk of accident, deterioration in the handling characteristics of the vehicle.

- Adjust the driving style.

- Correct tire inflation pressure at the next opportunity.



Before adjusting the tire pressure, check the information on temperature compensation and tire pressure adjustment in the "Technology in detail" chapter.

- Have the tire checked for damage at an authorized service facility, preferably an authorized BMW Motorrad retailer.

If you are unsure about the tire's suitability for continued riding:

- Do not continue riding.
- Contact roadside service.

Sensor defective or system fault

– with tire pressure monitor (TPM) ^{OE}



The general warning light lights up yellow.



The tire symbol and "--" or "-- --" are displayed.

Possible cause:

Wheels without installed RDC sensors are mounted.

- Retrofit wheel set with RDC sensors.

40 DISPLAYS

Possible cause:

One or two TPM sensors have failed.

- Have fault eliminated at a specialist service facility, preferably an authorized BMW Motorrad retailer.

Possible cause:

A system fault has occurred.

- Have fault eliminated at a specialist service facility, preferably an authorized BMW Motorrad retailer.

Transmission fault

– with tire pressure monitor (TPM)^{OE}

 The tire symbol and "--" or "-- --" are displayed.

Possible cause:

The vehicle's speed has not exceeded the threshold of approx. 19 mph (30 km/h). The TCP/RDC sensors do not send their signal until after this speed has been exceeded for the first time (→ 141).

- Watch the TCP/RDC display at a higher rate of speed. A continuous error is only present if the general warning lamp also lights up. In this case:
 - Have fault eliminated at a specialist service facility,

preferably an authorized BMW Motorrad retailer.

Possible cause:

There is a fault in the radio connection to the TPC/RDC sensors. Possible causes are radio systems in the surrounding area, which interfere with the connection between the TPC/RDC control unit and the sensors.

- Watch the TPC/RDC display in another environment. A continuous error is only present if the general warning lamp also lights up. In this case:
 - Have fault eliminated at a specialist service facility, preferably an authorized BMW Motorrad retailer.

Battery of tire-inflation pressure sensor weak

– with tire pressure monitor (TPM)^{OE}



The general warning light lights up yellow.



The TPM battery symbol appears on the display.



This fault message is only shown for a short time immediately following the Pre-Ride-Check.

Possible cause:

The battery for the tire pressure sensor is no longer charged to full capacity.
Operation of the tire pressure control is only ensured for a limited time.

- Contact an authorized service facility, preferably an authorized BMW Motorrad retailer.

Light direction of the low-beam headlight not known



The general warning light flashes up red.



Headlamp with question mark appears on the display.

Illumination of the road ahead is no longer optimum; there is a possibility of dazzling oncoming traffic.

Possible cause:

Light direction and range of the low beams are unknown, and adjustment is no longer possible.

- If it is dark, leave the motorcycle where it is or have it picked up, if possible.
- Have defect corrected as soon as possible by an authorized workshop, preferably an authorized BMW Motorrad retailer.

Beam-throw adjustment of the low-beam headlight restricted



The general warning lamp flashes yellow.



Headlamp with zero appears on the display.

Illumination of the road ahead is no longer optimum.
Possible cause:

Only restricted adjustment of light direction and range of the low beams is possible.

- Have the defect rectified by a specialist workshop, preferably an authorized BMW Motorrad retailer.

Headlight aiming changed

– with Adaptive Lights^{OE}



Headlamp with Left/Right appears on the display.

Cornering light control for the low-beam headlight is switched off.

Possible cause:

Headlight alignment has been changed from the as-delivered condition.

- Setting right- or left-hand traffic (→ 62).

42 **DISPLAYS**

Rear light failure



The general warning light lights up yellow.



Bulb symbol with arrow pointing to the rear appears on the display.

Possible cause:

Rear light, brake light or rear flashing turn indicator defective.

The LED tail light must be replaced.

- Please contact a specialized workshop, preferably an authorized BMW Motorrad retailer.

Front light failure



The general warning light lights up yellow.



Bulb symbol with arrow pointing to the front appears on the display.

Possible cause:

Low beams, high beams, parking lamps or turn signal faulty. The low beams or one of the LED turn signals must be replaced.

- Please contact a specialist service facility, preferably an authorized BMW Motorrad Retailer.
- Replacing high-beam headlight light source (→ 165).

Light failure



The general warning light lights up yellow.



Bulb symbol with two arrows appears on the display.

Possible cause:

A combination of light failures has occurred.

- Please contact a specialized workshop, preferably an authorized BMW Motorrad retailer.

Onboard system voltage low



The split battery symbol appears on the display.

Generator power is only just sufficient to supply all consumers and charge the battery.

Possible cause:

Too many consumers switched on. On-board system voltage tends to drop particularly at low engine rpm and when the engine is idling.

- When riding at low engine rpm switch off consumers that are not necessary for road safety (e.g. heated body warmer or auxiliary headlights).

Onboard system voltage critical



The general warning light lights up yellow.



The split battery symbol appears on the display.

Generator power is no longer sufficient to supply all consumers and charge the battery. In order to ensure that the engine can be started and the motorcycle ridden, the onboard electronics switch off the electricity supply to the onboard sockets and the auxiliary headlights. In extreme cases the seat heating and the grip heating might also be shut down. Possible cause:

Too many consumers switched on. On-board system voltage tends to drop particularly at low engine rpm and when the engine is idling.

- When riding at low engine rpm switch off consumers that are not necessary for road safety (e.g. heated body warmer or auxiliary headlights).

Battery charge current insufficient



The general warning light lights up red.



The battery symbol is displayed.



WARNING

Failure of vehicle systems

Accident hazard

- Do not continue riding.

The battery is not being charged. If you continue driving, the vehicle electronics will discharge the battery. Possible cause:

Alternator or alternator drive faulty.

- Have the malfunction corrected as soon as possible at an authorized service facility, preferably an authorized BMW Motorrad Retailer.

Anti-theft alarm battery low charge

- with anti-theft alarm system (DWA)^{OE}



The anti-theft alarm system battery symbol appears on the display.



This fault message is only shown for a short time immediately following the Pre-Ride-Check.

44 DISPLAYS

Possible cause:

The anti-theft alarm battery no longer has its full capacity. The operation of the anti-theft alarm system is only ensured for a limited time with the motorcycle battery disconnected.

- Contact an authorized service facility, preferably an authorized BMW Motorrad retailer.

Anti-theft alarm battery drained

– with anti-theft alarm system (DWA)^{OE}



The general warning light lights up yellow.



The anti-theft alarm system battery symbol appears on the display.



This fault message is only shown for a short time immediately following the Pre-Ride-Check.

Possible cause:

The anti-theft alarm system battery is completely discharged. Operation of the anti-theft alarm system is no longer ensured when the motorcycle's battery is disconnected.

- Contact an authorized service facility, preferably an authorized BMW Motorrad retailer.

Central locking locked

– with central locking system^{OE}



The locked symbol appears on the display. All locks in the central locking system are locked.

ABS self-diagnosis not completed



The ABS indicator and warning light flashes.

Possible cause:

The self-diagnosis routine was not completed; the ABS function is not available. The motorcycle must be ridden at a speed of at least 3.1 mph (5 km/h) so that the ABS self-diagnosis can be completed.

- Ride off slowly. It must be noted that the ABS function is not available until the self-diagnosis has been completed.

ABS error



The ABS indicator and warning light light up.

Possible cause:

The ABS control unit has detected an error. The ABS function is not available.

- Continued driving is possible while taking the failed ABS function into account. Observe additional information

on situations which can lead to an ABS error (➡ 136).

- Have the malfunction corrected as soon as possible at an authorized workshop, preferably an authorized BMW Motorrad retailer.

DTC intervention



The DTC indicator light flashes rapidly.

The DTC has detected instability at the rear wheel and has reduced the torque. The indicator light flashes longer than the DTC intervention lasts. This feature continues to furnish the rider with visual feedback confirming that the system has initiated active closed-loop intervention even after the critical situation has passed.

DTC self-diagnosis not completed



The DTC indicator light flashes slowly.

Possible cause:

The self-diagnosis routine was not completed; the DTC function is not available. The engine must be running and the motorcycle must be moved at a speed of at least 3.1 mph (5 km/h) in order for DTC self-diagnosis to complete.

- Ride off slowly. It must be noted that the DTC function is not available until the self-diagnosis has been completed.

DTC deactivated



The DTC indicator light lights up.

Possible cause:

The DTC system has been deactivated by the driver.

- Switch on DTC.

DTC error



The DTC indicator light lights up.

Possible cause:

The DTC control unit has detected an error. The DTC function is not available.

- It remains possible to continue riding. It must be noted that the DTC function is not available. Observe additional information on situations which can lead to a DTC error (➡ 138).
- Have the malfunction corrected as soon as possible at an authorized workshop, preferably an authorized BMW Motorrad retailer.

D-ESA fault



The general warning light lights up yellow.

46 DISPLAYS



The D-ESA fault symbol is displayed.

Possible cause:

The ESA control unit has detected an error. Motorcycle damping is in this condition very firm and riding is rather uncomfortable - in particular on rough roads.

- Have the malfunction corrected as soon as possible at an authorized service facility, preferably an authorized BMW Motorrad retailer.

Range



The range indicates the travel distance available with the remaining fuel.

The average consumption employed to calculate the remaining travel range does not appear in the display and may vary from the indicated average consumption.

You must put at least five liters of fuel into the fuel tank for the new level to be registered correctly. If the sensor cannot register the new level the range display cannot be updated. If the motorcycle is standing on its side stand, the motorcycle's inclined position will prevent the fuel level from being registered accurately. For this reason travel range is only

calculated with the side stand retracted.



The determined range is an approximate reading. BMW Motorrad therefore recommends that you do not try to use the full range before refueling.

Fuel down to reserve



Fuel reserve symbol lights up.

The fuel-level reading is displayed in yellow.



WARNING

Rough engine running or switching off of the engine due to a fuel shortage

Accident hazard, damage to catalytic converter

- Do not drive to the extent that the fuel tank is completely empty.

Possible cause:

At the most, the fuel tank still contains the reserve fuel quantity.



Reserve fuel quantity

Approx. 1.1 gal (Approx. 4 l)

- Refueling procedure (➔ 126).

Hill Start Control Pro active

 Green stop symbol is displayed.

Possible cause:

The Hill Start Control Pro (➡ 143) was activated automatically or was activated by the rider.

- Using the Hill Start Control Pro (➡ 79).
- Turning automatic Hill Start Control Pro on and off (➡ 80).

Hill Start Control Pro is active automatically

 White stop symbol is displayed.

Possible cause:

The automatic Hill Start Control Pro is active. If the rider stops on an incline > 5%, the vehicle is automatically held in place by the brakes.

- Turning automatic Hill Start Control Pro on and off (➡ 80).

Hill Start Control Pro cannot be activated

 Yellow stop symbol is displayed.

Possible cause:

Hill Start Control Pro cannot be activated.

- Fold in side stand.
- » Hill Start Control Pro only works when the side stand is folded in.

- Start engine.

» Hill Start Control Pro only works when the engine is running.

Hill Start Control Pro is automatically deactivated

 The general warning lamp flashes yellow.

 Stop symbol flashes briefly.

Possible cause:

Hill Start Control Pro was deactivated automatically.

- Side stand was folded out.
- » Hill Start Control Pro is deactivated when the side stand is folded out.
- Engine was stopped.
- » Hill Start Control Pro is deactivated when the engine is stopped.
- The driver drove off with Hill Start Control Pro active.
- Using the Hill Start Control Pro (➡ 79).

Brake temperature too high

 The general warning light lights up yellow.

 The brake temperature symbol is displayed.

48 DISPLAYS

DANGER

Driving with overheated brakes

Risk of accident due to brake failure

- Adapt driving style.
- Use the engine brake to avoid frequent braking.

WARNING

Failure to observe maintenance intervals

Accident hazard

- Comply with the maintenance intervals applicable for the brakes.

Service display



If a service is due, the service symbol and the service due date in place of the odometer are shown for a short time after the Pre-Ride-Check.



If the service is overdue the General warning light briefly shows yellow and the service symbol lights up continuously.



If the countdown to the next service is less than one month, service due date **1** is displayed.



If the motorcycle covers high annual mileages then shorter service intervals may be required. If the countdown distance to the early service is less than 621 miles (1000 km), countdown distance **2** is displayed.



If the service display appears more than a month before the service date, the current day's date must be reset in the instrument cluster. This situation can occur if the battery was disconnected.

Service overdue



The service symbol is displayed.



The general warning light briefly shows yellow after the Pre-Ride-Check.

Possible cause:

The required service has not yet been performed.

- Have the service performed as soon as possible by a specialist workshop, preferably an authorized BMW Motorrad retailer.

Emergency call display



If an emergency request is initiated while driving, the emergency request symbol **1** will be displayed.



A progress bar **1** is shown under the emergency request symbol **2** whilst the connection is being set up.



The symbol **1** is displayed if a connection has been established.

50 DISPLAYS



The symbol **1** is displayed if no connection could be established.



The symbol **1** is displayed if there is no reception.



The symbol **1** is displayed if an emergency request is not possible due to a technical fault.

OPERATION

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54 OPERATION

IGNITION SWITCH/STEERING LOCK

Ignition key

You are provided with 2 ignition keys. Should you lose your keys, refer to the information regarding the electronic immobilizer (EWS) (► 58).

Ignition switch/steering lock, fuel cap, stowage compartment, seat lock and cases are all operated with the same ignition key.

– with topcase^{OA}

A topcase with a lock for the same vehicle key can be ordered on request. Please contact a specialist workshop for this purpose, preferably a BMW Motorrad retailer.

Locking the steering lock



ATTENTION

Incorrect handlebar angle when parking on side stand
Component damage caused by tipping over

- On level ground, always turn the handlebars to the left to set the steering lock.
- Turn handlebars to left.



- Turn the ignition key to position **1** while moving the handlebars somewhat.
 - » Ignition, lights and all electrical circuits switched off.
 - » Steering lock locked.
 - » The ignition key can now be removed.

IGNITION

Switching on ignition



- Turn ignition key to position **1**.
 - » Parking lights and all function circuits switched on.
 - » Engine can be started.
 - » Pre-Ride Check in progress. (► 120)

- » ABS self-diagnosis is being performed. (➡ 120)
- » DTC self-diagnosis is performed. (➡ 121)

Switching off ignition



- Turn ignition key to position 1.
- » Light switched off.
- » Steering lock is not locked.
- » The ignition key can now be removed.
- » The windshield automatically moves to the lower end position.

IGNITION WITH KEYLESS RIDE

– with Keyless Ride^{OE}

Ignition key

You are provided with one radio-operated key and one spare key. Should you lose your keys, refer to the information regarding the electronic immobilizer (EWS) (➡ 58). The ignition, fuel cap, central locking system and anti-theft

alarm system are controlled with the radio-operated key. The seat lock, storage compartments, topcase and cases can be operated manually.



When the range of the radio-operated key is exceeded (e.g. in case of Topcase), the motorcycle cannot be started and the central locking system cannot be locked/unlocked.

When the range is exceeded, the ignition is switched off after approx. 1.5 minutes, the central locking system is **not** locked.

It is advisable to carry the radio-operated key directly on your person (e.g. in a jacket pocket) and to also carry the spare key as an alternative.



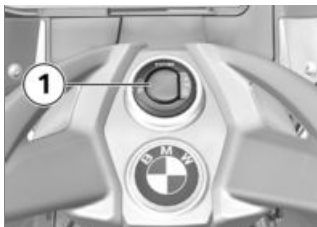
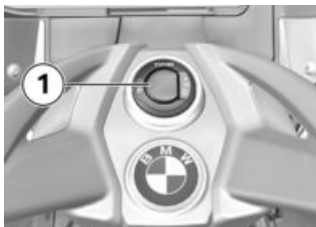
Range of Keyless Ride
radio-operated key

Approx. 3.3 ft (Approx. 1 m)

Locking the steering lock Requirement

Handlebars are turned to the left and radio-operated key is in reception range.

56 OPERATION



ATTENTION

Incorrect handlebar angle when parking on side stand
Component damage caused by tipping over

- On level ground, always turn the handlebars to the left to set the steering lock.
- Press and hold button **1**.
 - » Steering lock audibly locks.
 - » Ignition, lights and all electrical circuits switched off.
- To unlock the steering lock, briefly press button **1**.

Switching on ignition Requirement

Radio-operated key is within reception range.

- The ignition can be activated in **two** ways:

Version 1:

- Press button **1** briefly.
 - » Parking lights and all function circuits switched on.
 - » Engine can be started.
 - » Pre-Ride Check in progress. (➡ 120)
 - » ABS self-diagnosis is being performed. (➡ 120)
 - » DTC self-diagnosis is performed. (➡ 121)

Version 2:

- Steering lock is engaged, press and hold button **1**.
 - » Steering lock is unlocked.
 - » Parking lights and all function circuits switched on.
 - » Engine can be started.
 - » Pre-Ride Check in progress. (➡ 120)
 - » ABS self-diagnosis is being performed. (➡ 120)
 - » DTC self-diagnosis is performed. (➡ 121)

Switching off ignition

Requirement

Radio-operated key is within reception range.

- The ignition can be deactivated in **two** ways:

Version 1:

- Press button **1** briefly.
 - » Light is switched off.
 - » Handlebars are not locked.
 - » The windshield automatically moves to the lower end position.

Version 2:

- Turn handlebars to left.
- Press and hold button **1**.
 - » Light is switched off.
 - » Steering lock is locked.
 - » The windshield automatically moves to the lower end position.

Battery of the radio-operated key is drained or the radio-operated key is lost

 The antenna is located in front of the tank filler cap or under the tank cover.

- Should you lose your keys, refer to the information regarding the electronic immobilizer (EWS).
- Should you lose the radio-operated key during a trip, the vehicle can be started using the spare key.

- If the battery of the radio-operated key is completely drained, the vehicle can be started by touching the tank cover with the radio-operated key.



- Hold the spare key **1** or the drained radio-operated key **2** against the tank cover over the antenna **3**.



Period in which the engine must be started. Then unlocking must be repeated.

30 s

- » Pre-Ride-Check is carried out.
- Key has been detected.
- Engine can be started.
- Starting engine (➡ 119).

58 OPERATION

Replacing the battery of the key fob transmitter

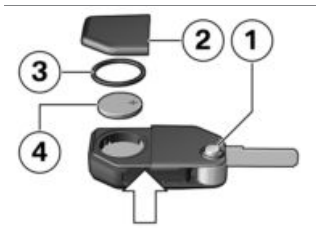
If the key fob transmitter fails to react when the button is pressed briefly or is pressed and held:

- The battery of the key fob transmitter no longer has its full charging capacity.

» Replace battery.



The battery symbol is displayed.



- Press button **1**.
 - » Key bit folds open.
- Press battery cover **2** upward at recess for key bit.
- Remove battery cover **2** and seal **3**.
- Remove battery **4**.
- Dispose of the old battery in accordance with legal regulations. Do not dispose of the battery in the household waste.



ATTENTION

Unsuitable or improperly inserted batteries

Component damage

- Use a battery compliant with the manufacturer's specifications.
- When inserting the battery, make sure that the polarity is correct.

- Insert the new battery with the positive terminal up.



Battery type

For Keyless Ride radio-operated key

CR 2032

- Install seal **3** and battery cover **2**.
 - » Red LED in instrument panel flashes.
 - » The remote-control is again ready to be used.

EPS ELECTRONIC IMMOBILIZER

The motorcycle's electronic circuitry monitors the data stored in the ignition key through a ring antenna incorporated in the ignition lock. The engine control unit does not enable an engine start until the ignition key has been recognized

as "authorized" for your motorcycle.

 An additional ignition key attached to the same ring as the ignition key used to start the engine could "irritate" the electronics, in which case the enabling signal for a start is not issued. The warning is displayed in the multifunction display with the key symbol. Always store ignition keys separately from the ignition key used for starting the vehicle.

If you lose an ignition key, you can have it disabled by your BMW Motorrad retailer. For this purpose, you should also bring all of the motorcycle's remaining ignition keys with you.

The engine can no longer be started using a disabled ignition key; however, a disabled ignition key can be enabled again.

Ignition keys can only be obtained from an authorized BMW Motorrad retailer. The keys are part of an integrated safety system, so the retailer is under an obligation to check the legitimacy of all applications for replacement/extra ignition keys.

EMERGENCY ON/OFF SWITCH (KILL SWITCH)



1 Emergency on/off switch (kill switch)



WARNING

Operation of the emergency ON/OFF switch when riding

Danger of falling due to blocking of rear wheel

- Do not operate the emergency ON/OFF switch when riding.

The engine can be switched off easily and quickly using the emergency on/off switch.

60 OPERATION



- a** Engine is switched off
- b** Operating position

REVERSER

General notes

The following prerequisites must be fulfilled to use the reverser:

- Motorcycle is standing.
- Engine is running.
- Transmission is in idle position.
- Side stand is retracted.
- Clutch is not pulled.

Reversing should be done without a passenger.

On downhill gradients, the reverser is not able to provide any holding function as is the case when a gear is engaged. The reverser cannot be used on steep gradients.



Gradient for reverser

max 7 %

Activating reverser



- Press button **1**.
 - » Gear indicator switches from "N" to "R".
 - » The reverser can be used as soon as the display "R" stops flashing.

Using reverser



- To reverse, press and hold starter button **1**.
 -  The motorcycle is not decelerated automatically after releasing the starter button and can therefore continue to roll.

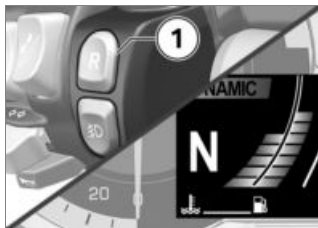
Automatic cancellation

Reversing is canceled automatically:

- if the gradient is too steep
- if there is an obstacle
- if the reversing motor overheats
- if the side stand is folded out
- if the front wheel brake is operated

"R" will flash in the display if reversing is canceled.

Deactivating reverser



- Press button **1**.
- » Gear indicator switches from "R" to "N".

LIGHTS

Parking lights

The parking lights come on automatically when the ignition is switched on.

 The parking lights are a strain on the battery. Do not leave the ignition switched on longer than absolutely necessary.

Headlight low beam

The headlights automatically come on in their low-beam mode as soon as you start the engine.

High-beam headlight and headlight flasher



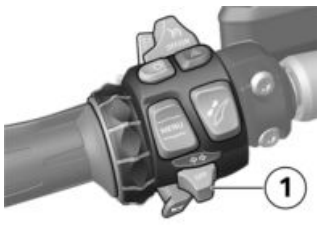
- Press switch **1** toward front to switch on high-beam headlight.
- Pull switch **1** toward rear to actuate headlight flasher.

 The high-beam headlight can also be switched on when the engine is not running.

Parking lights

- Switch off the ignition.

62 OPERATION



- Immediately after switching off the ignition, push button **1** to left and hold it until the parking lamps come on.
- Switch ignition on and then off again to switch off the parking lights.

Setting right- or left-hand traffic

- with Adaptive Lights^{OE}

- Switch on the ignition.
- Call up the **Settings** menu and then select the **Vehicle** menu item.
- Select the **Headlamp** menu item.



- **R-hand traffic:** for countries in which the traffic drives on the right-hand side of the road.
- **L-hand traffic:** for countries in which the traffic drives on the left-hand side of the road.

Headlight range

The xenon headlight has continuous beam throw control that keeps beam throw constant regardless of how the motorcycle is ridden and the load it carries.

Operating the auxiliary headlight

- with additional headlight^{OE}

 The auxiliary headlights are approved for use as fog lights and may only be used in poor weather conditions. Comply with the country-specific road traffic regulations.



- Press button **1** to switch on the auxiliary headlight.



The telltale light shows.



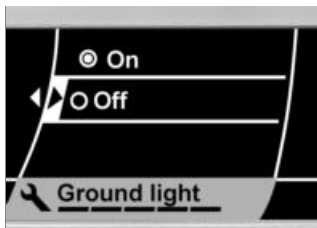
If this warning symbol is displayed, the vehicle voltage is low. If applicable, the additional headlights might have been temporarily switched off.

- Press button **1** again to switch off the auxiliary headlight.

Operating the ground light

– with ground light^{OA}

- Switch on the ignition.
- Call up the **Settings** menu and then select the **Vehicle** menu item.
- Select the **Ground light** menu item.



- **On**: ground light comes on for a brief period after the ignition is turned off.
- **Off**: ground light does not come on after the ignition is turned off.

- with central locking system^{OE}
- » If the ground light was turned off as described above, it will still to be turned on by unlocking the central locking system.<

HAZARD WARNING FLASHER

Operating the hazard warning lights

- Switch on the ignition.



The hazard warning flashers place a strain on the battery. Do not use the hazard warning flashers for longer than absolutely necessary.



If a turn indicator button is pressed when hazard warning lights are on, the turn indicator function replaces the hazard warning light function for the duration of turn indicator operation. Once the turn indicator button is no longer being pressed, the hazard warning light function will resume.

64 OPERATION

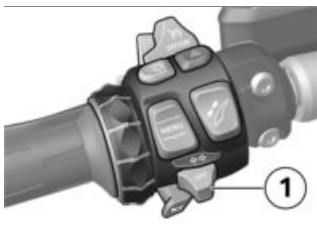


- Press button **1** to switch on the hazard warning lights.
 - » Ignition can be switched off. To switch off the hazard warning lights:
- Turn on ignition and press button **1**.

TURN INDICATORS

Operating turn indicators

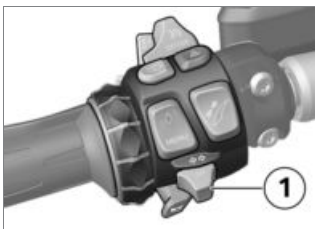
- Switch on the ignition.



- Press button **1** to left to switch on left-side turn indicators.
- Press button **1** to right to switch on right-side turn indicators.

- Move button **1** to center position to switch off turn indicators.

Comfort turn indicators



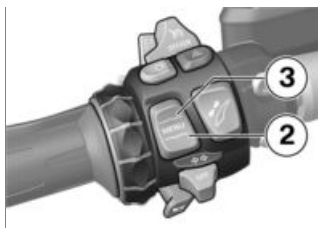
When button **1** is pressed to the right or left, the turn indicators automatically turn off under the following conditions:

- Speed is under 18 mph (30 km/h): after distance covered of 165 ft (50 m).
- Speed is between 18 mph and 60 mph (30 km/h and 100 km/h): after covering a particular distance depending on the speed or when accelerating.
- Speed is above 62 mph (100 km/h): after turn indicator flashes five times.

When button **1** is pressed and held slightly longer to the right or left, the turn indicators will only turn off automatically after covering the speed-dependent distance traveled.

MULTIFUNCTION DISPLAY

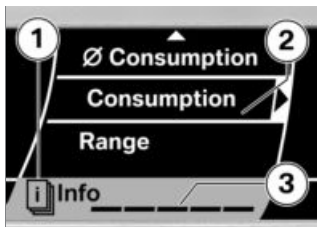
Selecting a menu



The possible menus are called up using button **2**, starting with the *Info* menu. Pressing button **2** again will call up the next menu; the number of menus depends on the vehicle equipment.

Push-up the **2** button to get direct access to a selectable menu.

Up to the *Audio* area, the *Settings* menu can only be called up when the vehicle is at a standstill.



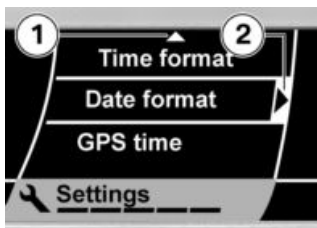
Position **1** displays the type of menu, the cursor **2** shows the current selection. Each bar **3** represents a selectable menu. The bar of the current menu is hidden to depict its position in the order of all menus.

Selecting a menu item



Move the mouse pointer within the menu using the Multi-Controller **1**.

66 OPERATION



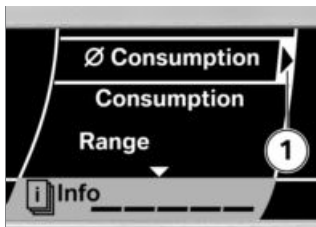
An arrow **1** on the upper or lower edge of the display indicates that, by turning the Multi-Controller in the corresponding direction, you can access additional menu items. If the arrow **2** is displayed in the mouse pointer, it indicates that a submenu can be called up by pressing the Multi-Controller to the right. For differing meanings of average values and the list selection, see (→ 66).

Making a setting



Direct selection:

If the cursor is placed on a menu item that does not require an additional setting, this selection will become active immediately.



Reset values:

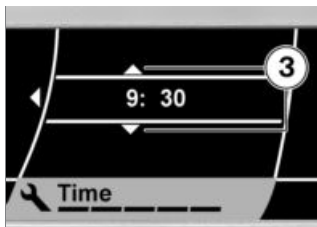
Average values that are indicated by an arrow **1** can be reset by a long press of the Multi-Controller to the right.



Select from a list:

Selectable items in a selection list are indicated by a circle **2**. The current selection is indicated by a dot within the circle.

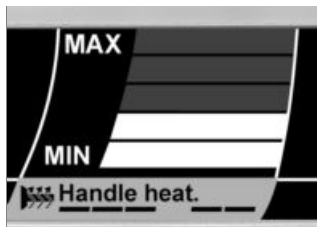
To change the selection, select a list item using the cursor and then press the Multi-Controller to the right to activate or deactivate.



Set numerical value:

If there are multiple numerical values between the arrows **3**, these can be increased or decreased by turning the Multi-Controller upwards or downwards respectively. Switch be-

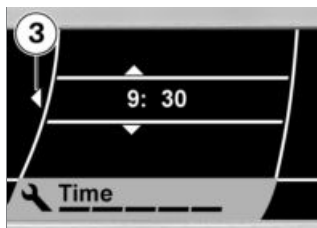
tween the values by pressing the Multi-Controller to the right or left.



Set relative values:

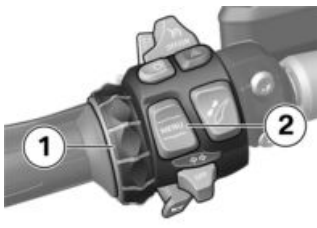
Settings between two limit values are made using a bar display. The value to be set can be increased or decreased by turning the Multi-Controller upwards or downwards respectively.

Exiting the menu



Arrow **3** appears when you are in a submenu.

68 OPERATION

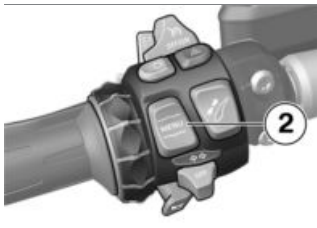


Pressing the Multi-Controller **1** to the left returns you to the next higher menu; pressing the **MENU** button **2** returns you to the main menu.

To hide the menus, press the Multi-Controller **1** to the left in a main menu.

Selecting a favorite menu

- Select the desired main menu.



- Hold down button **3**.

 The diamond appears to the right of the menu designation.

» The menu you have selected will subsequently be called

up whenever you press the button **3**.

Adapting the display

- Switch on the ignition.
- Call up the **Settings** menu and select the **User** menu item.

The following settings are available:

- **Language:** display language (German, English, Spanish, Italian, French, Dutch, Portuguese)
- **Time format - Format clock:** clock in 12-hour format (12 h) or in 24-hour format (24 h)
- **Time format - Format date:** date in day.month.year format (dd . mm . yy) or in month/day/year format (mm / dd / yy)
- **Time format - GPS time:** accept GPS time and GPS date from built-in navigation system (On), (Off)
- **Brightness:** brightness of the display and the instruments
- **Start logo:** display start logo after the ignition is switched on (On), (Off)
- **Background:** shows on the display when the radio is turned off: Empty: no display,

- Logo: 6-cylinder logo, Speed ind.: digital speed indicator
- Initial state: restore factory defaults (when Reset! appears on the display, press the Multi-Controller to the right and hold it in this position)
- Make the desired settings using the Multi-Controller.

ON-BOARD COMPUTER

Selecting display readings

- Call up the Info menu and select the desired information.



The following information may be displayed in area **3**:

- ØConsumption: average fuel consumption
- Consumption: current fuel consumption
- Range: range with fuel remaining in fuel tank
- ØSpeed: average speed
- Temperature: ambient temperature

- Tire pressure: tire pressures
- Stopwatch: stopwatch
- Travel times: travel times
- Date: current date
- Vehicle volt.: vehicle voltage
- Oil level: engine oil level
- Off: no display

Resetting average data

- Call up the Info menu and then select the average value you want to reset.
- Press and hold the Multi-Controller to the right until the average value is reset.

Operating the stopwatch

- Call up the Info menu and then select the Stopwatch menu item.



- With the stopwatch stopped, push the Multi-Controller **1** to the right to start the stopwatch.
- » The stopwatch will even continue to run if a different

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display is selected or the ignition is turned off.

- With the stopwatch running, press the Multi-Controller **1** to the right to stop the stopwatch.
- Press and hold the Multi-Controller **1** to the right to reset the stopwatch.

Measuring travel times

- Call up the **Info** menu and then select the **Travel times** menu item.



- Push the Multi-Controller **1** to the right and hold it in this position to reset the travel time.
- » The time measurement will also continue to run if a different display is selected or the ignition is turned off.



Total driving time since the vehicle was last reset.



Immobilization period since the vehicle was last reset.

TRIP RECORDER

Selecting the trip recorder

- Switch on the ignition.



- Call up the **Trip** menu using the **1** button and then select the desired trip recorder **2**. The following odometers can be displayed:
 - Trip recorder 1 (Trip 1)
 - Trip recorder 2 (Trip 2)
 - Automatic trip recorder (Trip Auto) resets automatically eight hours after the ignition is turned off.

Resetting the trip recorder

- Switch on the ignition.
- Select the desired trip recorder.



- Press and hold the Multi-Controller **1** to the right until the trip recorder **2** is reset.

ANTI-THEFT ALARM SYSTEM (DWA)

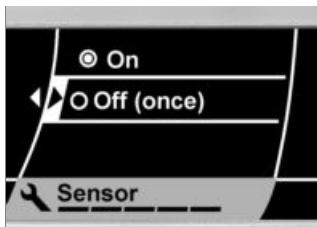
– with anti-theft alarm system (DWA)^{OE}

Activation without remote key or key fob transmitter

- If applicable, turn on the "Automatic activation of the anti-theft alarm after ignition OFF" function.
- Anti-theft alarm system settings (➡ 74).
- Switch off ignition.
 - » Activation takes 30 seconds to complete.
 - » Turn indicators are illuminated twice.
 - » Confirmation tone sounds twice (if programmed).
 - » The anti-theft alarm system is active.
- To deactivate the movement sensor (for example if you are

about to transport the motorcycle on a train and the swaying movement of the moving train could trip the alarm), call up the Settings menu before turning off the ignition.

- Select the **Vehicle - Sensor** menu item.



- Select **Off (1x)** to turn off the movement sensor this one time.
- Switch off ignition.
 - » Activation takes 30 seconds to complete.
 - » Turn signals are illuminated three times.
 - » Confirmation tone sounds three times (if programmed).
 - » The anti-theft alarm system is active; the movement sensor is deactivated.

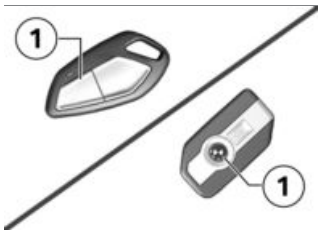
Activate with remote key or radio-operated key

 Only motorcycles without Keyless Ride have a separate remote key for the central

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locking system and alarm system.

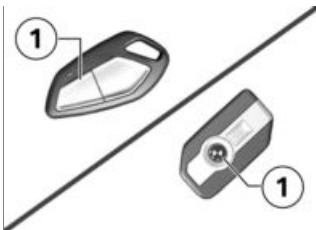
- Switch off ignition.



- Press button **1** on the remote key or radio-operated key twice.

 See also the other functions of the remote control for the central locking system.

- » Activation takes 30 seconds to complete.
- » Turn indicators are illuminated twice.
- » Confirmation tone sounds twice (if programmed).
- » Alarm system is activated.



- To deactivate the motion sensor (for example if you are about to transport the motorcycle on a train and the swaying movement of the moving train could trip the alarm), press button **1** on the remote key or radio-operated key again during the activation phase.
- » Turn indicators are illuminated three times.
- » Confirmation tone sounds three times (if programmed).
- » Motion sensor is deactivated.

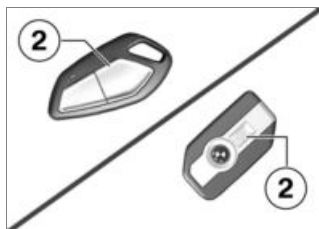
Alarm signal

The DWA alarm can be set off by:

- motion sensor
- Switching on ignition with an unauthorized ignition key.
- Disconnecting the DWA from the motorcycle battery (DWA battery takes over the power supply – alarm sound only, hazard warning lights do not flash).

If the DWA battery is discharged all functions remain operational; the only difference is that the alarm cannot be set off if the system is disconnected from the motorcycle battery.

The duration of the alarm is approx. 26 seconds. During the alarm, an alarm tone sounds and the turn indicators flash. The type of alarm tone can be programmed in the multifunction display.



You can cancel an alarm at any time by pressing the button **2** on the remote control or the radio-operated key, without deactivating the DWA.

If an alarm was triggered while the motorcycle was unattended, the rider is notified accordingly by an alarm tone sounding once when the ignition is turned on. The DWA

LED then signals the reason for the alarm for one minute.

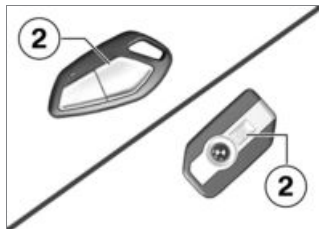
Light signals on DWA LED:

- 1 flash: motion sensor 1
- 2 flashes: motion sensor 2
- 3 flashes: ignition turned on with unauthorized ignition key
- 4 flashes: alarm system disconnected from vehicle battery
- 5 flashes: motion sensor 3

Deactivate without remote key or radio-operated key

- Emergency on/off switch (kill switch) in normal operating position.
- Switch on the ignition.
 - » Turn indicators light up once.
 - » Confirmation tone sounds once (if programmed).
 - » Alarm system is deactivated.

Deactivate with remote key or radio-operated key



- Press button **2** on the remote key or radio-operated key once.

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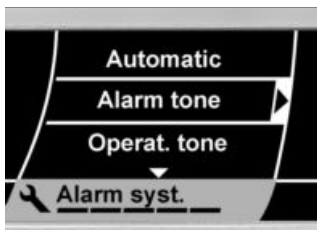
 See also the other functions of the remote control for the central locking system.

 If the alarm function is deactivated using the radio-operated key and the ignition is not then switched on, it will reactivate automatically after 30 seconds if "activation after ignition off" is programmed.

- » Turn indicators light up once.
- » Confirmation tone sounds once (if programmed).
- » Alarm system is deactivated.

Anti-theft alarm system settings

- Call up the **Settings** menu and select the **Vehicle - Alarm system** menu item.



The following settings are available:

- **Automatic - On:** anti-theft alarm system is activated automatically after the ignition is turned off.

- **Automatic - Off:** anti-theft alarm system must be activated with the remote key after the ignition is turned off.
- **Alarm tone:** type of alarm tone.
- **Operating tone - On:** turn signals flash and one tone sounds as confirmation when the anti-theft alarm system is turned on or off.
- **Operating tone - Off:** only the turn signals flash as confirmation when anti-theft alarm system is turned on or off.
- Make the desired setting using the **Multi-Controller**.

DYNAMIC TRACTION CONTROL (DTC)

Turning the DTC function off and on

- Switch on the ignition.
- Call up the **Settings** menu and then select the **DTC** menu item.

 This menu cannot be called up while the motorcycle is on the move.



- Select *Off* (1x) to turn off the DTC one time until the next time the ignition is turned on.

 The DTC indicator light will light up if the DTC is turned off.

- Select *On* to turn on the DTC. Alternative: turn the ignition off and on again.

 The DTC indicator light goes out, if self-diagnosis has not been completed, the DTC indicator light begins to flash.

ELECTRONIC CHASSIS AND SUSPENSION ADJUSTMENT (ESA)

Setting suspension compliance

- Start engine.



The damping is displayed in the multifunction display in area **1**, and spring preload is indicated in area **2**.

- Call up the *Dynamic ESA* menu.

 The damping cannot be adjusted while the motorcycle is being ridden.

The range of adjustment for damping is shown.

- *ROAD*: Normal damping
- *DYNAMIC*: Sporty, performance-oriented damping
- Select the desired damping or move the cursor upwards to adjust the load.

 The load setting cannot be adjusted while the motorcycle is underway.

The range of adjustment for spring preload is shown.

 One-up

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One-up with luggage



Two-up (with luggage)

- Select desired load variant.
 - » The chassis and suspension are set according to the selection and the Dynamic ESA display is adapted to the new setting. The symbols for loading and damping are shown in gray during the adjustment procedure.

RIDING MODE

Setting riding mode

- Switch on the ignition.



- Press button 1.

 You can find more detailed information regarding the selectable riding modes in the "Technology in detail" chapter.



The current setting is shown at position 2; each time the button is pressed one of the possible riding modes is shown at position 3.

- Press button repeatedly until desired riding mode is shown.
 - » If the motorcycle is stopped, the selected riding mode is activated after a short time.
 - » The new riding mode is activated during operation under the following conditions:
 - Brakes not engaged
 - Throttle grip turned back completely
 - » After the new riding mode is activated, the selection display disappears.
 - » The riding mode selected and its associated engine-characteristics and DTC adaptations are retained even after the ignition has been turned off.

ADAPTIVE CRUISE CONTROL

Switching on the adaptive cruise control



- Slide switch **1** to the right.
- » Button **2** can be operated.

Store speed



- Briefly press button **2** forward.

 The cruise control can be set within a speed range from 19 mph (30 km/h) to 136 mph (220 km/h).

SET The indicator light for adaptive cruise control illuminates.

- » The motorcycle maintains your current cruising speed and the setting is saved.

Accelerating



- Briefly press button **2** forward.
- » The speed is increased by 0.6 mph (1 km/h) each time the button is pressed.
- Press button **2** forward and hold.
- » The motorcycle accelerates steplessly.
- » If the button **2** is no longer pressed, the speed achieved is maintained and saved.

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Decreasing speed



- Briefly press button **2** backward.
 - » The speed is decreased by 0.6 mph (1 km/h) each time the button is pressed.
- Press button **2** back and hold.
 - » The motorcycle decelerates steplessly.
 - » If the button **2** is no longer pressed, the speed achieved is maintained and saved.

Deactivating the adaptive cruise control

- Actuate the brakes, coupling or throttle grip (ease the throttle beyond the default setting) to deactivate the adaptive cruise control.
 - » The indicator light for adaptive cruise control goes out.

Resuming former cruising speed



- Briefly push button **2** back to return to the speed saved beforehand.

 Cruise control is not deactivated by accelerating. If you release the throttle grip, the motorcycle will decelerate only to the cruising speed saved in memory, even though you might have wanted to slow down to a lower speed.

 The indicator light for adaptive cruise control illuminates.

Switching off the adaptive cruise control



- Push switch **1** to the left.
 - » The system is switched off.
 - » Button **2** is locked.

HILL START CONTROL

Using the Hill Start Control Pro Requirement

Vehicle is at a standstill with engine running.



ATTENTION

Failure of the drive-off assistant

Risk of accident

- Secure the vehicle through manual braking.



Hill Start Control Pro is only a comfort system to make starting on hills easier and should therefore not be confused with a parking brake.



- Apply brake lever **1** firmly and then release.



Green Hill Start Control indicator light appears on the display.

- » Hill Start Control Pro is now activated.
- To turn off Hill Start Control Pro, pull brake lever **1** again.



If Hill Start Control Pro was deactivated using the brake lever, automatic Hill Start Control is deactivated for the next 4 m.

- Alternatively, drive off in 1st or 2nd gear.



Hill Start Control Pro is deactivated automatically when driving off.



When automatic Hill Start Control Pro is turned off, the stop symbol disappears after the brake has been released completely. The white stop symbol appears when au-

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automatic Hill Start Control Pro is turned on.

- » Hill Start Control Pro is now deactivated.
- For more information on Hill Start Control Pro, see Chapter "Technology in detail" (143).

Turning automatic Hill Start Control Pro on and off

- Switch on the ignition.
- Call up the **Settings** menu and then select the **HSC AUTO** menu item.



- To switch on the automatic Hill Start Control Pro, select **On**.
 White Hill Start Control indicator light appears on the display.
- » When applying the brake for approximately one second after the vehicle has come to a standstill and on a slope with at least a 5% gradient, Hill

Start Control Pro is activated automatically.

- To turn off automatic Hill Start Control Pro, select **Off**.
- » The selected setting is retained even after the ignition is turned off.

CENTRAL LOCKING SYSTEM

Locking

– with central locking system^{OE}



- Turn on ignition and press button **3**.
-  Only motorcycles without Keyless Ride have a separate remote key for the central locking system and alarm system.
- Alternative: press button **1** on the remote key.
- » The storage compartments in the side trim panels and the cases are locked.
- with topcase^{OA}
- » The topcase is locked.◁
- » The locks can no longer be unlocked manually.



The locked symbol appears on the display.

- with anti-theft alarm system (DWA)^{OE}
 - » The functions of the remote key for the anti-theft alarm system are described in the corresponding chapter.<

Unlocking

- with central locking system^{OE}



- Turn on ignition and press button **3**.
- Alternative: press button **2** on the remote key.
 - » The storage compartments in the side trim panels and the cases are unlocked.
- with topcase^{OA}
 - » The topcase is unlocked.<
 - » Locks that were already locked manually must also be unlocked again manually.
- with anti-theft alarm system (DWA)^{OE}
 - » The functions of the remote key for the anti-theft alarm

system are described in the corresponding chapter.<

- with ground light^{OA}

» The ground light will be turned on briefly if the remote key is used to unlock the vehicle with the ignition turned off.<

Emergency unlocking

- with central locking system^{OE}

If the central locking system can no longer be opened, you can open the cases, topcase and storage compartments manually as follows:

- Removing case (→ 180).
- Opening case (→ 179).



- First, turn the key in the topcase lock by 45° past the LOCK position; then turn back to the position indicated by the dot and press in the lock barrel.
 - » The release lever pops up.

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- Turn the key in the storage compartment lock to the intermediate position between LOCK and the position of the dot.
- Press in lock barrel.
 - » Storage compartment flap pops up.

Registration of remote controls

- with central locking system^{OE}
- with anti-theft alarm system (DWA)^{OE}
- without Keyless Ride^{OE}

If a remote control is to be replaced or if you are going to use an additional remote control, you must always register all the remote controls in the set.

- Enable registration of the remote controls as follows:
- Switch on the ignition.



- Press button **2** on the remote control three times.
 - » One sound signal is issued.
- Turn off the ignition within ten seconds.
- Press button **2** on the remote control three times.
 - » One sound signal is issued.
- Turn on the ignition within ten seconds.

You can now proceed to register all the remote controls.

- Step through the following procedure with each remote control in turn:



- Hold down buttons **1** and **2**.
 - » LED **3** flashes for about ten seconds.

- Once LED **3** no longer flashes, release buttons **1** and **2**.
 - » **3** LED lights up.
- Press button **1** or button **2**.
 - » One sound signal is issued and LED **3** goes out.

To complete logon:

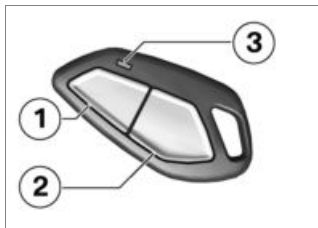
- Switch off the ignition.
 - » Three sound signals are issued.
 - » The registration is also ended when
 - four remote controls have been registered.
 - if you have logged on the first remote key and then do not press a button within approximately 30 seconds.

Synchronizing the remote controls

- with central locking system^{OE}
- with anti-theft alarm system (DWA)^{OE}
- without Keyless Ride^{OE}

If the central locking system stops responding to the signals from a remote control unit then the unit will need to be resynchronized. This scenario can arise (for example) after the remote-control unit's buttons have been pressed frequently while the unit was beyond the range of the alarm system.

- The procedure for synchronizing the remote controls is as follows:
- Turn on the ignition.



- Hold down buttons **1** and **2**.
 - » LED **3** flashes for about ten seconds.
- Once LED **3** no longer flashes, release buttons **1** and **2**.
 - » **3** LED lights up.
- Press button **1** or button **2**.
 - » LED **3** goes out.

Replacing battery in the remote-control unit

- with central locking system^{OE}
- with anti-theft alarm system (DWA)^{OE}
- without Keyless Ride^{OE}

If the LED lamp on the remote-control unit fails to light up when a button is pressed, or only lights up briefly:

- Replace the battery in the remote-control unit.

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- Open lid of battery compartment **1**.
- Dispose of the old battery in accordance with legal regulations. Do not dispose of the battery in the household waste.



ATTENTION

Unsuitable or improperly inserted batteries

Component damage

- Use a battery compliant with the manufacturer's specifications.
 - When inserting the battery, make sure that the polarity is correct.
-
- Insert the new battery with the positive side up.



Battery type and battery voltage

for remote key

CR 2032

3 V

- » The LED on the remote control lights up; the remote control has to be synchronized.



- Press button **1** twice.
 - » LED **3** flashes for a few seconds.
 - » The remote-control is again ready to be used.

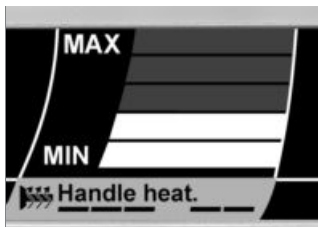
GRIP HEATING

Operating the grip heating

- Start engine.



- The heated grips option can only be activated when the engine is running.
- Call up the **Heated grips** menu.



The grips have five-stage heating. Stage five is for heating the grips quickly. It is advisable to switch back to a lower stage as soon as the grips are warm.

- Select the desired heating stage.



Symbol **1** appears on the display indicating that the grip heating is turned on.



If this warning symbol is displayed, the vehicle voltage is low. If applicable, the handlebar grip heating might have been temporarily switched off.

SEAT HEATING

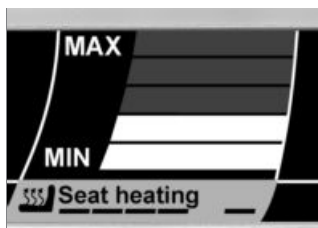
Rider's seat heating

- Start engine.



Seat heating can be activated only when the engine is running.

- Call up the Seat heating menu.



The rider's seat has five-stage heating. Stage five is for heating the seat quickly: it is advisable to switch back to a lower stage as soon as the seat is warm.

- Select the desired heating stage.

86 OPERATION



Symbol **1** appears on the display, indicating that the seat heating is ON.

 If this warning symbol is displayed, the vehicle voltage is low. If applicable, the seat heating might have been temporarily switched off.

Passenger seat heater

- Start engine.

 Seat heating can be activated only when the engine is running.



- Select desired heating level with switch **1**.



The passenger seat has two-stage heating. The second stage is used for heating the seat quickly. It is advisable to switch back to the first stage as soon as the seat is warm.

- **2** Switch in middle position: Heating off.
- **3** Switch in one-dot position: Low heating output.
- **4** Switch in two-dot position: High heating output.



Symbol **1** appears on the display, indicating that the rear seat heating is ON.



If this warning symbol is displayed, the vehicle voltage is low. If applicable, the seat heating might have been temporarily switched off.

STORAGE COMPARTMENTS

Using the storage compartment

- with central locking system^{OE}
- Open the central locking system, if necessary.◀



- Turn key in the storage compartment lock to the position indicated by the dot.
- Press unlocked lock barrel downwards to open the flap.
- The description applies analogously to the storage compartment on the right side.



ATTENTION

High temperatures in the storage compartments, especially in summer

Damage to objects housed here, particularly electronic devices such as cellular phones and MP3 players

- Refer to the operating instructions of the electronic device for possible usage restrictions.

- Do not place objects that are sensitive to heat in the storage compartments during the summer.

AUDIO SYSTEM

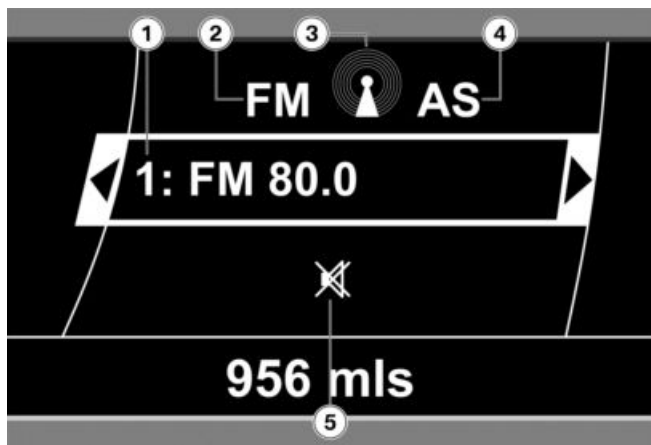
05

GENERAL OPERATION	90
RADIO	95
SATELLITE RADIO	98
EXTERNAL DEVICES	103

90 AUDIO SYSTEM

GENERAL OPERATION

Multifunction display



- 1 Text field
- 2 Audio source (→ 92)
- 3 Symbol for the audio source
- 4 Playback mode (depends on audio source)
- 5 Mute (MUTE) (→ 93)

Audio system storage compartment



- 1 Lock (→ 87)
- 2 Connection for USB connector and 3.5 mm jack (→ 103)
- 3 Storage compartment for audio systems and mobile phone

92 AUDIO SYSTEM

Switching on audio system

- Switch on ignition.
- » If the audio system was switched on before switching off the ignition, the system is automatically switched on again.



- If the audio system does not switch on automatically: Press the **ON** button to switch on the audio system.
- » The audio system will be in the most recently used operating mode.

Switching off audio system



- Switch off the ignition or with the ignition on, press the **ON**

button and hold it down until the audio system switches off.

Select playback source



- Press the **SRC** button to select the playback source. The following audio sources are possible; the appropriate symbol appears on the display:



Radio



Satellite radio (only in countries in which reception of "Sirius Satellite Radio" is possible)

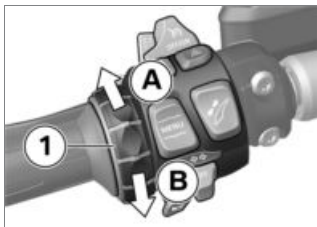


Other audio devices (AUX)

Speaker

The on-board speakers are the audio output for the audio system.

Adjusting the volume



- Turn Multi-Controller **1** in direction **A** to increase volume.
- Turn Multi-Controller **1** in direction **B** to decrease volume.



Scale **2** appears on the display while the volume is being adjusted. The scale disappears automatically once no further changes are made to the volume setting.

Mute (MUTE)



- Press the **ON** button.
 - » All sound output is switched off.
- The speaker symbol appears on the display.
- Press the **ON** button again to turn mute off.



- Alternatively: Turn Multi-Controller **1** in direction **A** to cancel muting.

Switching speakers on and off

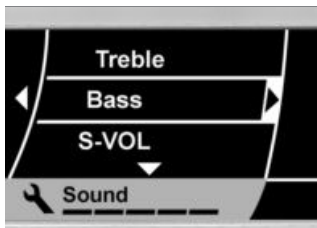
- Call up the Settings menu and select Audio - Loudspeaker.
 - » The following settings are available:

94 AUDIO SYSTEM

- On: speakers on.
- Off: speakers off.

Adjusting sound settings

- Call up the menu **Settings** and select menu item **Audio**
 - **Sound**.



- » The following settings are available:
- **Treble**: Reduce (-1 to -6) or increase (+1 to +6) high-frequency response.
- **Bass**: Reduce (-1 to -6) or increase (+1 to +6) bass response.
- **S-VOL**: Switch off the speed-dependent volume control (**OFF**) or select the level (1 to 3).
- **Loudness**: Switch the sound graph on (**On**) or off (**Off**).
- **AUX**: Adjust the input level (1 to 6).
- Select the desired menu item, make the adjustment and leave the menu.

Volume and speed

The audio system can automatically adapt the volume to the speed of the motorcycle. The rate at which the volume increases in relation to vehicle speed can be set on three levels. Level 3 corresponds to maximum increase.

Input signal level

The volume can be set as described on page (➡ 93). In the case of audio sources that can only be connected to the audio system via the jack, the adjustable volume depends on:

- the output power of the audio device
- the input signal level selected
- the volume set on the audio device.

The volume on the audio device and the input signal level should be adjusted so that the resulting volume range matches the range of the other operating modes.

RADIO

Selecting the band



- Press and hold down the **MODE** button until the frequency band changes.
- » Each time you press the button the system toggles between FM, AM and WB.

Saving stations

The BMW Motorrad audio system has 24 station memory slots for each waveband.

- Twelve system memory slots: The Autostore function has to be used to assign the twelve stations with the strongest signals to these slots.
- Twelve personal memory slots: The rider can manually assign a station to each of these memory slots.

Finding and saving stations automatically

- Selecting the band (► 95).



- Hold down the **MEM** button until AS search is displayed.

 After the audio system is switched on, the tuner requires approximately a minute to find all receivable stations. Do not start the automatic scan until after this time, as otherwise the stations not found up to that point cannot be taken into account.

- » The twelve stations with the strongest signal will be found and saved. Then the station saved in memory slot 1 will be played.
- » If fewer than twelve stations are found the lowest frequency in that band will be saved in the remaining memory slots.
- » If no station can be found, No signal will be displayed.

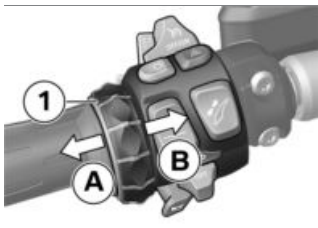
96 AUDIO SYSTEM

Searching for station manually

- Selecting the band (➡ 95).



- Repeatedly press the **MODE** button until **MAN** appears in the top line of the display.



- Push Multi-Controller **1** in direction **A** or **B** to find the next available station.
- Press and hold Multi-Controller **1** in direction **A** or **B** to select a specific frequency.
 - » The frequency search stops as soon as the Multi-Controller is released, even if no playable station has been found on that frequency.

Manually storing stations

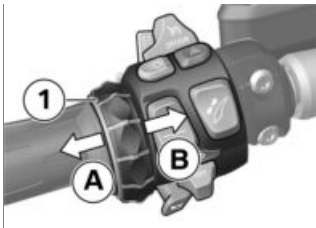
- Select a station or frequency from the frequency band.



It is also possible to select stations from the system memory or the personal memory and then move them to a different slot in the personal memory.



- Press the **MEM** button to save selected frequency/station.
 - » Memory will flash in the display.



- Push Multi-Controller **1** in direction **A** or **B** to select the required slot in the personal memory list.

- » The current assignment of this memory slot flashes in the display.



- Press the **MEM** button again to save station/frequency to selected memory slot.
- » The station previously saved there will be deleted.

Playing stored station

- Selecting the band (→ 95).

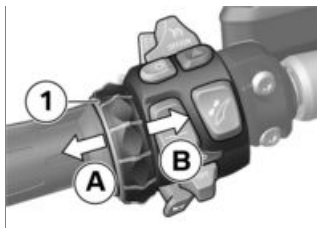


- To select a station from the system memory, press the **MODE** button repeatedly until AS is displayed.



AS appears at position **1** and the active memory slot appears at position **2**.

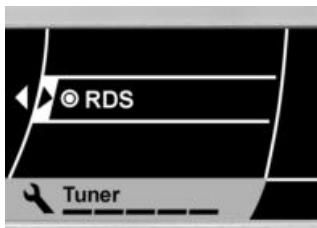
- To select a station from the personal memory, repeatedly press the **MODE** button until position **1** shows MEM.



- Press Multi-Controller **1** in direction **A** or **B** to select the memory slot.

Select the reception settings

- Call up the menu *Settings* and select menu item *Audio - Tuner*.



» The following setting is possible:

- RDS: Switch RDS on or off
- Select the desired menu item, make the adjustment and leave the menu.

Radio Data System (RDS)

Some stations in the FM band transmit additional information, including the program name. The name of the station can only be displayed if the RDS function is on. If no station name is being transmitted, reception range and the frequency will be shown in the display.

SATELLITE RADIO

Satellite radio

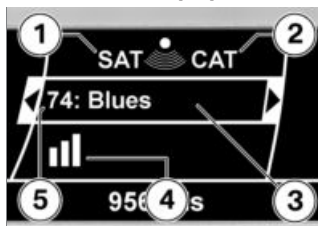
The functions for the reception of satellite radio described in this chapter are only offered in countries in which the reception of "Sirius Satellite Radio" is possible.

Subscribing to stations

To listen to a station, it must first be subscribed to. Subscribing to a station can generate costs not borne by BMW Motorrad. Information on the available channels can be retrieved from www.sirius.com or www.siriusxm.com.

A station is activated by phone by calling the phone number 1.888.539.7474. In addition, the serial number of the audio system is also required (➡ 103).

Multifunction display



- 1 Playback source Sirius Radio
- 2 Playback mode:
SR: Play a channel from the personal list of presets (→ 102)
CAT: Play a channel from the list of categories (→ 100)
- 3 Text field for selectable channel information (→ 99)
- 4 Display of signal strength (→ 99)
- 5 Memory slot or channel number (depending on playback mode) (→ 100) (→ 102)

Signal strength



No signal



Poor signal



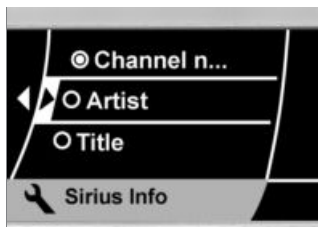
Good signal



Very good signal

Selecting station information

- Call up the Settings menu and select Audio - Sirius - Sirius Info.



The following information types can be displayed in the text field:

- Channel n...: Name of station
- Artist: Name of artist
- Track: Name of track
- Composer: Name of composer

» The solid circle indicates the current information.

- Select the information type you want and exit the menu.

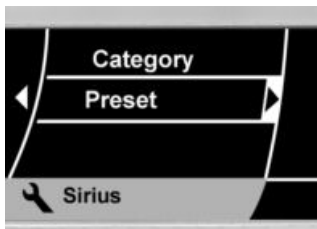
100 AUDIO SYSTEM

- » If the selected information is not available, the station name is displayed (e.g. artist and composer for news).

Selecting category and channel

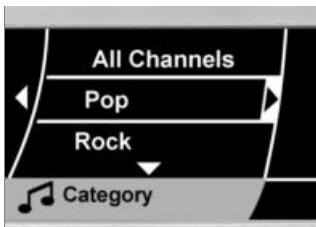


- If the audio system is in the Preset playback mode (SR in the display) or if you want to change the category: press the **MODE** button.



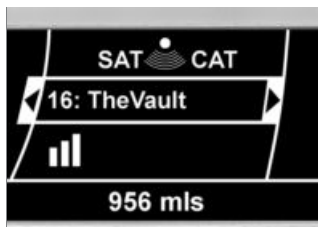
- The choice of playback mode appears on the display.
- Genre: Selection of a channel from the list of categories
 - Preset: Selection from the personal list of presets

- Select Genre.

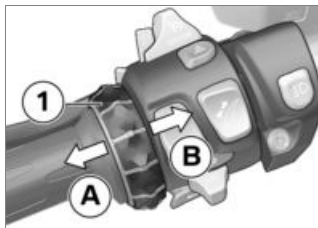


A list of the categories corresponding to the channels for which a subscription has been paid appears on the display. All channels for which no subscription has been taken out are grouped in the unsubscribed category.

- » The solid circle indicates the current category.
- Select the category you want.
- » A list of the channels available in the category you selected appears on the display.
- Select the channel you want.



The channel information you selected appears in the text field.



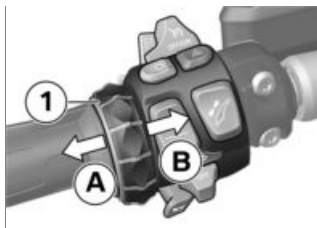
- If the audio system is already in the **Genre** playback mode: press multi-controller **1** in direction **A** or **B** to go to the next channel in the selected category.

Saving the channel

- Selecting category and channel (→ 100).



- Press the **MEM** button.
» Memory is displayed.



- Press Multi-Controller **1** in direction **A** or **B** to select the desired memory slot.
» The current assignment of this memory slot flashes in the display.

102 AUDIO SYSTEM

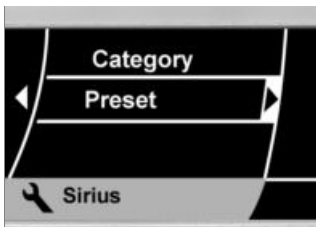


- Press **MEM** button again to save station on selected memory space.
 - » The station previously saved there will be overwritten.

Calling stored station



- If the audio system is in the Genre playback mode (CAT showing on the display): press the **MODE** button.



The choice of playback mode appears on the display.

- Genre: Selection of a channel from the list of categories
- Preset: Selection from the personal list of presets
- Select Preset.

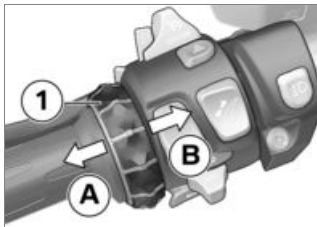


The list of memory slots appears on the display.

- » The solid circle indicates the current selection.
- Select the memory slot you want.



The channel information you selected appears in the text field.



- If the audio system is already in the **Preset** playback mode: press multi-controller **1** in direction **A** or **B** to select one of the other assigned memory slots.

Displaying serial number

- Call up the **Settings** and select the menu **Audio - Sirius - Sirius ESN**.
 - » ESN and the twelve-digit serial number appear on the display. The telephone number to dial in order to take out a subscription for additional

channels also appears on the display.

Status messages

Under certain circumstances, the following status messages are shown in the text field:

"CALL 888-539 -SIRI"

To subscribe to this station, the hotline must be called.
Sirius Hotline: 1.888.539.7474

"INVALID CHANNEL"

The stations is no longer valid.

"LINKING"

Signal is being searched for.

"SUB UPDT"

The subscription is checked and updated.

"UPDATING"

The station number assignment is being updated.

EXTERNAL DEVICES

Requirements

Audio systems for audio playback can be connected by means of the connector in the storage compartment via the 3.5 mm jack. Devices can be charged using the USB charging interface.

104 AUDIO SYSTEM

The device must:

- have a compatible connector,
- fit into the storage compartment,
- be capable of withstanding vibrations arising from normal motorcycle use,
- be able to withstand the high temperatures occurring inside the storage compartment in summer.



ATTENTION

Increased mechanical stressing of unsuitable audio devices

Component damage, no liability for BMW Motorrad

- Refer to the operating instructions of your audio device for any possible usage restrictions.



ATTENTION

High temperatures in storage compartments

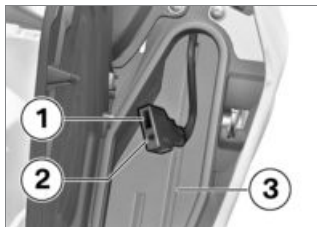
Damage to stored items or devices

- Refer to the device operating instructions for possible usage restrictions.

The audio system enables an amperage of max. 500 mA at the USB charging interface. As a result it is possible to charge a mobile phone, for instance. Connecting several USB devices via a hub is not possible as the supply voltage is limited.

Connecting the device

- Switching off audio system (→ 92).



- Connect the USB device to the audio system via the USB connector **1** to charge.
- Connect the audio sources to the audio system and switch on via the jack **2**.
- If possible, position the device in the clamp slot **3**.

**ATTENTION****Improper routing of the connecting cable**

Damage to the seal

- Do not pass the access line between storage compartment and lid to the outside.
- Close the lid while making sure not to pinch the device or the cable.
- Switching on audio system (🔊 92).
- Select playback source (🔊 92).

SETTING

06

MIRRORS	108
WIND SHIELD	108
WIND DEFLECTION WING	109
RIDER'S SEAT	109
CLUTCH	111
BRAKES	111

MIRRORS

Adjusting mirrors



- Move mirror into desired position by applying light pressure at edge.

WIND SHIELD

Adjusting the windshield

- Switch on the ignition.
 - » When riding off, the windshield automatically moves to its last position before the ignition was turned off.



- Press top button **1** to raise the windshield.
- Press bottom button **1** to lower the windshield.

- Switch off the ignition.
 - » The windshield automatically moves to the lower end position.

If the windshield encounters resistance before reaching the end position, the pressure-sensitive finger guard system activates. The windshield is stopped and moves upwards slightly. After several seconds, the windshield will attempt to move to the end position again.

- Ensure clearance of the windshield.
 - » The windshield does not automatically move to the lower end position.
- Switch on the ignition.
- Move windshield to the upper and lower end positions using button **1**.
- Switch off the ignition.
 - » The range of adjustment of the windshield is calibrated.
 - » The windshield does not respond to pressing the button **1**.
- Please contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

The proper functioning of the pressure-sensitive finger guard system cannot be ensured if a windshield that has not been approved by BMW Motorrad has been installed.

- In this case: Ensure the clearance of the windshield before switching off the ignition.

WIND DEFLECTION WING

Adjusting the wind deflection wing



WARNING

Adjusting the slipstream deflectors.

Accident hazard

- Only adjust the slipstream deflectors when the motorcycle is stationary.
- Turn the wind deflection wing **1** inwards or outwards to adjust the wind flow for the rider. While doing so, observe the outer stop.

RIDER'S SEAT

Remove rider's seat



- Unlock seat lock **1** with ignition key and lift rider's seat at rear.



- Disconnect plug connection **2** of the seat heating and remove the rider's seat.
- Lay seat on a clean surface with the upholstered side down.

110 SETTING

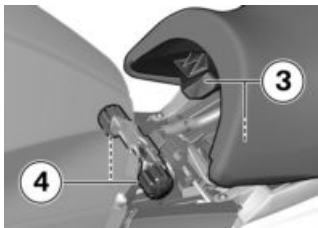
Installing rider's seat



- Connect plug connection **2** of the seat heating.



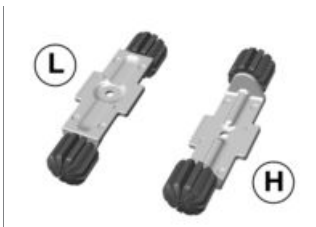
- Pull the lock **1** back and remove the adjusting plate **2**.



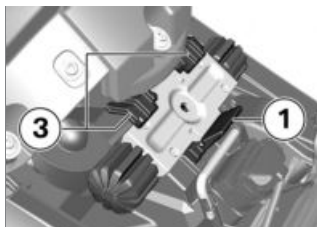
- Position the rider's seat with mounts **3** in spacer buffers **4** on left and right.
- Lower the rear of the rider's seat and engage the seat in the locking mechanism.

Adjusting the rider's seat height

- Remove rider's seat (→ 109).



- Turn the adjuster plate to position **L** to obtain the lower seat height.
- Turn the adjuster plate to position **H** to obtain the higher seat height.



- Insert adjusting plate in the desired position into the mount **3** and then press into the lock **1**.
- Installing rider's seat (→ 110).

CLUTCH

Clutch

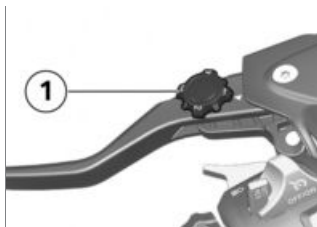


WARNING

Modified position of the clutch fluid reservoir

Air in the clutch system

- Do not turn the handlebar fitting on the handlebar.



- Turn the adjustment wheel **1** into the desired position.



The adjustment wheel can be turned more easily if you press the clutch lever forward when doing so.

- » Four settings are available:
 - Position 1: smallest distance between handlebar grip and clutch lever.
 - Position 4: largest distance between handlebar grip and clutch lever.

BRAKES

Adjust brake lever



WARNING

Adjusting the clutch lever while driving

Accident hazard

- Adjust the clutch lever when the motorcycle is stationary.



WARNING

Modified position of the brake fluid reservoir

Air in the brake system

- Do not turn the handlebar fitting on the handlebar.

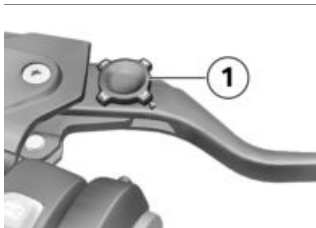


WARNING

Adjusting the brake lever while driving

Risk of accident

- Do not attempt to adjust the brake lever unless the motorcycle is at a standstill.



- Turn adjusting wheel **1** into desired position.



The adjustment wheel can be turned more easily if you press the handbrake lever forward when doing so.

- » Four settings are available:
- Position 1: smallest distance between handlebar grip and brake lever.
 - Position 4: largest distance between handlebar grip and brake lever.

RIDING

07

SAFETY INSTRUCTIONS	116
REGULAR CHECK	119
STARTING	119
BREAKING IN	122
BRAKES	123
PARKING YOUR MOTORCYCLE	124
REFUELING	125
SECURING MOTORCYCLE FOR TRANSPORTATION	130

SAFETY INSTRUCTIONS

Rider's equipment

Do not ride without the correct clothing! Always wear:

- Helmet
- Rider's suit
- Gloves
- Boots

This applies even to short journeys, and to every season of the year. Your authorized BMW Motorrad retailer will be happy to advise you and has the correct clothing for every purpose.



ATTENTION

Use of materials that leave a stain (e.g., blue jeans) on the seat

Discoloration of the seat

- Avoid contact with materials that leave a stain.



WARNING

Seizure of loose textile fabrics, luggage items or straps in open running rotating vehicle parts (wheels, prop shaft)

Risk of accident

- Make sure that no loosely worn textile fabrics can get caught in open, running and rotating vehicle parts.
- Keep luggage items as well as tension belts and lashing straps away from open, running and rotating vehicle parts.

Correct loading



WARNING

Reduced riding stability caused by overloading and uneven loading

Accident hazard

- Do not exceed the gross weight limit and observe the loading information.
- Set spring preload, suspension damping rate settings and tire pressures for the current gross vehicle weight.

- Make sure that weight is uniformly distributed between right and left.
- Pack heavy luggage items and cargo as low and as close to the center of the motorcycle as possible.
- Observe the maximum payload and maximum speed; see also the Chapter "Accessories" (► 181).
- with topcase^{OA}
- Observe the maximum payload and maximum speed with topcase; see also chapter "Accessories" (► 185).◁
- with tank bag^{OA}
- Observe maximum payload of tank bag and corresponding top speed.

	Payload of tank bag
≤11 lbs (≤5 kg)	
	Speed limit for driving with tank bag
≤99 mph (≤160 km/h)◁	

Speed

If you ride at high speed, always bear in mind that various boundary conditions can adversely affect the handling of your motorcycle:

- Settings of spring-strut and shock absorber system
- Imbalanced load
- Loose clothing
- Insufficient tire inflation pressure
- Poor tire tread
- Etc.

Risk of poisoning

Exhaust gas contains carbon monoxide, which is colorless and odorless but highly toxic.



WARNING

Harmful exhaust gas

Danger of suffocation

- Do not inhale exhaust fumes.
- Do not run the engine in closed rooms.



WARNING

Inhalation of vapors that are harmful to health

Damage to health

- Do not inhale vapors from operating fluids and plastics.
- Only use the vehicle outdoors.

Burn hazard



CAUTION

Intense heating up of engine and exhaust system while riding

Burn hazard

- After parking the motorcycle, make sure that no persons or objects come into contact with the engine and exhaust system.

Catalytic converter

There is a danger of overheating and damage if misfiring causes unburned fuel to enter the catalytic converter.

For this reason, observe the following points:

- Do not run the fuel tank dry.
- Do not run the engine with the spark-plug cap removed.
- Stop the engine immediately if it misfires.
- Use unleaded fuel only.
- Comply with all specified maintenance intervals.



ATTENTION

Unburned fuel in the catalytic converter

Damage to catalytic converter

- Note the points listed for protection of the catalytic converter.

Danger of overheating



ATTENTION

Engine idling for a lengthy period while at a standstill

Overheating due to insufficient cooling; in extreme cases vehicle fire

- Do not allow the engine to idle unnecessarily.
- After starting, ride off immediately.

Manipulation



ATTENTION

Modifications to the motorcycle (e.g. engine control unit, throttle valves, clutch)

Damage to the affected parts, failure of safety-relevant functions, expiration of warranty

- Do not make any modifications.

REGULAR CHECK

Observe checklist

- Use the following checklist to check your motorcycle at regular intervals.

Before every journey:

- Check operation of the brake system.
- Check operation of the lighting and signal system.
- Check clutch function (117 156).
- Checking tire pressure (117 157).
- Checking tire tread depth (117 158).
- Check secure hold of cases and luggage.

At every third refueling stop

- Checking engine oil level (117 150).
- Check front brake pad thickness (117 152).
- Check rear brake pad thickness (117 153).
- Checking the front brake fluid level (117 154).
- Checking the rear brake fluid level (117 155).
- Check coolant level (117 156).

STARTING

Starting engine

- Switch on the ignition.
 - » Pre-Ride Check in progress. (117 120)
 - » ABS self-diagnosis is being performed. (117 120)
 - » DTC self-diagnosis is performed. (117 121)
- Engage neutral, or pull back clutch lever if a gear is engaged.

 You cannot start the motorcycle with the side stand extended and a gear engaged. The engine will switch itself off if it is started with the transmission in neutral and then a gear is engaged before retracting the side stand.

- For cold starts and at low ambient temperatures: pull lever to disengage clutch and twist throttle grip slightly.



- Press starter button 1.



The starting procedure is automatically canceled if the battery voltage is too low. Recharge the battery before you attempt to start the engine again, or use jump-starting. More detailed information can be found in the Maintenance chapter under Jump-starting.

- » Engine starts.
- » Consult the troubleshooting chart if the engine refuses to start. (➡ 198)

Pre-Ride Check

After the ignition has been turned on, the instrument panel performs a test of the indicator and warning lights of the ABS, the ASC, the universal warning light and the indicators. The logo is shown in the display during this.

Phase 1



The ABS indicator and warning light light up.



The general warning light lights up yellow.

Phase 2



The ABS indicator and warning light light up.



The general warning light lights up red.

If the universal warning light fails to appear in the display:



WARNING

Faulty general warning light.

Lack of display of malfunctions.

- Check that the 'General' warning light comes on, and that it shows red and yellow.
- Have the malfunction corrected as soon as possible at an authorized service facility, preferably an authorized BMW Motorrad Retailer.

ABS self-diagnosis

The self-diagnosis routine checks whether the BMW Motorrad Integral ABS is ready for operation. The self-diagnosis routine launches automatically when you switch on the ignition.

Phase 1

- » Check on system components monitored by diagnostic system while motorcycle is parked.



The ABS indicator and warning light flashes.

Phase 2

- » Check of the wheel speed sensors while starting off. The motorcycle must be driving at a speed of at least 3 mph (5 km/h) in order for the ABS self-diagnosis to complete.



The ABS indicator and warning light flashes.

ABS self-diagnosis completed

- » The ABS indicator and warning lamp goes out.

If an ABS fault is displayed after the ABS self-diagnosis is completed:

- It remains possible to continue riding. Bear in mind that neither the ABS function nor the integral function is available.
- Have the malfunction corrected as soon as possible at an authorized service facility, preferably an authorized BMW Motorrad Retailer.

DTC self-diagnosis

The readiness for operation of the BMW Motorrad DTC is checked by the self-diagnosis. The self-diagnosis routine runs automatically when you switch on the ignition.

Phase 1

- » Check on system components monitored by diagnostic system while motorcycle is parked.



The DTC indicator light flashes slowly.

Phase 2

- » Checking the diagnosable system components while driving. The engine must be running and the motorcycle must reach a speed of at least 3 mph (5 km/h) in order for DTC self-diagnosis to complete.



The DTC indicator light flashes slowly.

DTC self-diagnosis completed

- » The DTC symbol is no longer displayed.

If a DTC error is indicated after the DTC self-diagnosis is completed:

- It remains possible to continue riding. It must be noted that the DTC function is not available.
- Have the malfunction corrected as soon as possible at an authorized service facility, preferably an authorized BMW Motorrad retailer.

BREAKING IN

Engine

- While running in the motorcycle, vary the throttle opening and engine-speed range frequently; avoid driving for long periods at a constant speed.
- Try to do most of your riding during this initial period on twisting, fairly hilly roads, avoiding highways if possible.
- Observe the engine run-in speeds.

	Engine run-in speed
	<5000 min ⁻¹ (Odometer reading 0...186 miles (0...300 km))
	<6500 min ⁻¹ (Odometer reading 186...621 miles (300...1000 km))
	No full throttle (Odometer reading 0...621 miles (0...1000 km))

- Have the first running-in check performed after 300 – 750 mls (500 – 1200 km).

Brake pads

New brake pads must be run in before they achieve their optimum friction force. This initial reduction in braking efficiency can be compensated for by ex-

erting greater pressure on the brake levers.



WARNING

New brake pads

Extension of the braking distance, accident hazard

- Brake early.

Tires

New tires have a smooth surface. This must be roughened by riding in a restrained manner at various heel angles until the tires are run in. This running in procedure is essential if the tires are to achieve maximum grip.



WARNING

Loss of adhesion of new tires on wet roads and at extreme angles

Accident hazard

- Always think well ahead and avoid extreme angles.

BRAKES

How do you achieve the shortest braking distance?

The dynamic load distribution between the front and rear wheel changes during braking. The heavier you brake, the greater the weight transfer to the front wheel. Increases in the load on an individual wheel are accompanied by a rise in the effective brake force that the wheel can provide. To achieve the shortest possible braking distance, the front wheel brake must be applied quickly and with progressively greater levels of force. This procedure provides ideal utilization of the dynamic load increase to the front wheel. The clutch should also be engaged at the same time. With the frequently instructed "emergency braking," where brake pressure is generated as quickly as possible and with great force, dynamic load distribution lags behind the progressive increases in deceleration rate and the braking force cannot be completely transferred to the road.

BMW Motorrad Integral ABS prevents the front wheel from locking.

Descending mountain passes



WARNING

Braking only with the rear-wheel brake when descending mountain passes.

Loss of braking action.

Destruction of the brakes caused by overheating.

- Apply the front wheel brake and use the engine brake.

Wet, soiled brakes

Moisture and dirt on the brake disks and the brake pads result in a decrease in the braking action.

Delayed or poorer braking action must be expected in the following situations:

- When driving in the rain and through puddles.
- After washing the motorcycle.
- When driving on roads spread with salt.
- After working on the brakes due to oil or grease residues.
- When driving on soiled roads or offroad.



WARNING

Poorer braking action due to moisture and dirt

Accident hazard

- Brake until brakes are dry or clean; clean if necessary.
- Brake early until the full braking action is available again.

ABS Pro

Physical riding limits



WARNING

Braking in curves

Danger of falling despite

ABS Pro

- The rider is always responsible for adapting his/her driving style.
- Do not reduce the system's extra safety margin with careless riding or unnecessary risks.

ABS Pro is available in all riding modes.

Falling cannot be excluded

Although ABS Pro represents valuable support and an enormous safety advantage for the rider when braking in the inclined position, it by no means redefines the physical riding limits. It is still possible to ex-

ceed those limits through misjudgments or riding errors. In extreme cases this may result in a fall.

Use on public roads

ABS Pro helps make riding your motorcycle on public roads even safer. When braking due to unexpected hazards in curves, locking-up and slipping of the wheels is prevented within the scope of the physical riding limits.



ABS Pro was not developed to increase the individual braking performance in the inclined position.

PARKING YOUR MOTORCYCLE

Side stand

- Switch off engine.



ATTENTION

Poor ground conditions in area of stand

Component damage caused by tipping over

- Always check that the ground under the stand is level and firm.

- Fold out side stand and park motorcycle.

**ATTENTION****Loading of the side stand with additional weight**

Component damage cause by tipping over

- Do not sit on the motorcycle when it is parked on the side stands.

- If the slope of the road permits, turn the handlebars to the left.
- On a grade, the motorcycle should always face uphill; select 1st gear.

Center stand

- Switch off engine.

**ATTENTION****Poor ground conditions in area of stand**

Component damage cause by tipping over

- Always check that the ground under the stand is level and firm.

**ATTENTION****Folding in the center stand in case of strong movements**

Component damage cause by tipping over

- Do not sit on the vehicle while it is resting on the center stand.

- Fold down center stand and prop up motorcycle.

REFUELING**Fuel grade****Requirement**

For optimal fuel consumption, the fuel should be sulfur-free or very low in sulfur content.

**ATTENTION****Refueling with leaded fuel**

Damage to catalytic converter

- Do not refuel with leaded gasoline or gasoline with metallic additives, e.g. manganese or iron.



ATTENTION

Use of Ethanol E85 as fuel

Damage to the engine and fuel supply

- Do not refuel with E85, i.e. fuel with an ethanol content of 85 %, or with Flex Fuel.
 - Fuels with a maximum ethanol content of 10 %, i. e. E10, may be used for refueling.
-  Fuel additives clean the fuel injection system and the combustion area. Fuel additives should be used when refueling with low-quality fuels or during longer periods of downtime. Your authorized BMW Motorrad retailer can provide you with more detailed information.



Recommended fuel quality

Regular unleaded (max. 15 % ethanol, E15)
min 87 AKI (min 91 ROZ/
RON)
87 AKI

Refueling procedure



WARNING

Fuel is highly flammable

Fire and explosion hazard

- Do not smoke. Never bring a naked flame near the fuel tank.

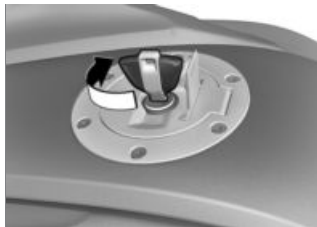


ATTENTION

Contact of fuel and plastic surfaces

Damage to surfaces (become unattractive or cloudy)

- Immediately clean plastic surfaces after contact with fuel.
- Park motorcycle. Ensure that the ground is firm and level.
- Open protective cap.



- Unlock fuel tank with ignition key and fold up.



WARNING

Escaping of fuel due to expansion under exposure to heat with overfilled fuel tank
Accident hazard

- Do not overfill the fuel tank.
- Refuel with a fuel meeting the specifications listed above, continuing until fuel is no higher than lower edge of fuel filler neck.

 If refueling is carried out after running on fuel reserve, the resulting filling capacity must be greater than the fuel reserve so that the new fill level is detected and the fuel reserve indicator light is switched off.



Usable fuel quantity

Approx. 7 gal (Approx. 26.5 l)



Reserve fuel quantity

Approx. 1.1 gal (Approx. 4 l)

- Press fuel tank cap down firmly to close.
- Remove ignition key and close protective cap.

Refueling procedure

– with Keyless Ride^{OE}

Requirement

Steering lock is unlocked.



WARNING

Fuel is highly flammable

Fire and explosion hazard

- Do not smoke. Never bring a naked flame near the fuel tank.



ATTENTION

Contact of fuel and plastic surfaces

Damage to surfaces (become unattractive or cloudy)

- Immediately clean plastic surfaces after contact with fuel.

- Make sure the ground is level and firm and place the motor-cycle on its center stand.
- with Keyless Ride^{OE}
- Switching off ignition (→ 57).

128 RIDING

 After the ignition is switched off, the fuel filler cap can be opened within the specified run-on time even without the radio-operated key being within the reception area.

	After-running period for opening the fuel filler cap
2 min	

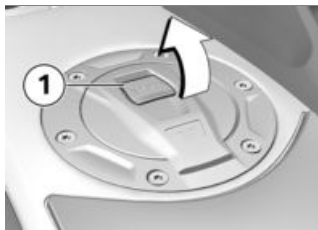
- » There are **2 ways** to open the fuel filler cap:
- Within the after-run period.
 - After the after-run period is over.

Version 1

- with Keyless Ride^{OE}

Requirement

Within the run-on time



- Slowly pull lug **1** of fuel filler cap upward.
- » Fuel filler cap unlocked.
- Open fuel filler cap completely.

Version 2

- with Keyless Ride^{OE}

Requirement

After run-on time expires

- Bring radio-operated key into reception range.
- Slowly pull up tab **1**.
- » The indicator light for the radio-operated key flashes as long as the radio-operated key is being searched for.
- Slowly pull the tab **1** of the fuel cap upward again.
- » Fuel filler cap unlocked.
- Open fuel filler cap completely.



WARNING

Escaping of fuel due to expansion under exposure to heat with overfilled fuel tank
Accident hazard

- Do not overfill the fuel tank.
- Refuel with a fuel meeting the specifications listed above, continuing until fuel is no

higher than lower edge of fuel filler neck.

 If refueling is carried out after running on fuel reserve, the resulting filling capacity must be greater than the fuel reserve so that the new fill level is detected and the fuel reserve indicator light is switched off.

 The "usable fuel quantity" specified in the technical data is the fuel quantity, which can be refueled if the fuel tank was completely emptied, i.e., if the engine dies off due to lack of fuel.



Usable fuel quantity

Approx. 7 gal (Approx. 26.5 l)



Reserve fuel quantity

Approx. 1.1 gal (Approx. 4 l)

- Press fuel filler cap of fuel tank down firmly.
- » Fuel filler cap audibly engages.
- » Fuel filler cap automatically locks after run-on time expires.
- » The engaged fuel cap locks immediately when the steer-

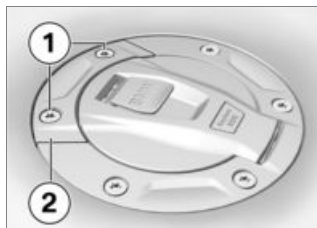
ing lock is locked or the ignition is switched on.

Open fuel filler cap emergency release

- with Keyless Ride^{OE}

The fuel filler cap cannot be opened.

- Have the defect rectified as quickly as possible by a specialist workshop, preferably an authorized BMW Motorrad retailer.



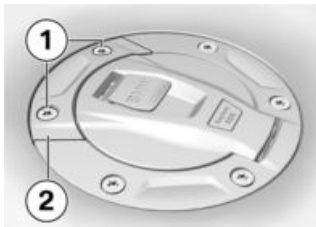
- Remove screws **1**.
- Remove emergency release **2**.
- » Fuel filler cap unlocked.
- Open fuel filler cap completely.
- Refueling (► 127).
- Close fuel filler cap emergency release (► 130).

130 RIDING

Close fuel filler cap emergency release
– with Keyless Ride^{OE}

Requirement

Fuel filler cap is closed.



- Position the emergency release **2**.
- Install screws **1**.

SECURING MOTORCYCLE FOR TRANSPORTATION

- Protect all components where tensioning straps are routed from being scratched. For example, use adhesive strips or soft cloths.



ATTENTION

Motorcycle tips to the side when raising

Component damage cause by tipping over

- Secure the motorcycle against tipping to the side, preferably with the assistance of a second person.
- Push the motorcycle onto the transportation flat and hold it in position; do not place it on the side stand or center stand.



- Do not pull the tensioning straps over the footrests.
- Tighten all tensioning straps evenly.



ATTENTION

Improper placement of the tensioning straps

Damage to brake lines, cables, bearings and trim panels

- Route tensioning straps carefully.
 - Protect painted components from scratching with a cloth.
-
- Pass the tensioning straps on left and right through the front suspension and strap the motorcycle down.



- Fasten the rear tensioning straps on both sides on the rear frame and tighten.

TECHNOLOGY IN DETAIL

08

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GENERAL NOTES

More information on the topic of technology is available at: bmw-motorrad.com/technology

ANTILOCK BRAKING SYSTEM (ABS)

Partially integral brake

Your motorcycle is equipped with a partially integral brake configuration. Both front and rear brakes are applied simultaneously when you pull the handbrake lever. The foot-brake lever acts only on the rear brake.

The BMW Motorrad Integral ABS adapts the braking force distribution between the front and rear wheel brake to the loading of the motorcycle during braking.



ATTENTION

Attempt at a burn-out despite integral function

Damage to rear-wheel brake and clutch

- Do not perform burn-out.

How does ABS work?

The maximum braking force that can be transferred to the road surface is partially dependent on the friction coefficient of the road surface. Gravel, ice, snow and wet roads offer a considerably poorer friction coefficient than a dry, clean asphalt surface. The poorer the friction coefficient of the road surface is, the longer the braking distance will be.

If the maximum transferrable braking force is exceeded when the driver increases the brake pressure, the wheels begin to lock and driving stability is lost, and a fall can result. Before this situation occurs, ABS intervenes and adjusts the brake pressure to the maximum transferrable braking force. This enables the wheels to continue to turn and maintains driving stability regardless of the road surface condition.

What happens when rough roads are encountered?

Bumpy or rough roads can briefly lead to a loss of contact between the tires and the road surface, until the transferable braking force is reduced to zero. If braking is car-

ried out in this situation, ABS must reduce the brake pressure to ensure driving stability when restoring contact to the road. At this point in time, the BMW Motorrad Integral ABS must assume extremely low friction coefficients (gravel, ice, snow) so that the running wheels turn in every imaginable case and the driving stability is ensured. After detecting the actual conditions, the system adjusts the optimum brake pressure.

How is the BMW Motorrad Integral ABS noticeable to the rider?

If the ABS system must reduce the braking forces due to the conditions described above, then vibrations can be felt at the handbrake lever.

If the handbrake lever is pulled, then braking pressure is built up at the rear wheel with the integral function. If the footbrake lever is first actuated after this, the brake pressure already built up can be felt earlier than the counter-pressure, than when the footbrake lever is actuated before or together with the handbrake lever.

Lifting off rear wheel

Even during severe braking, a high level of tire grip can mean that the front wheel does not lock up until very late, if at all. Consequently, ABS does not intervene until very late, if at all. Under these circumstances the rear wheel can lift off the ground, and the outcome can be a highsiding situation in which the motorcycle can flip over.



WARNING

Lifting off of the rear wheel due to heavy braking

Accident hazard

- When braking heavily, bear in mind that the ABS control cannot always be relied on to prevent the rear wheel from lifting off the ground.

What are the design characteristics of the BMW Motorrad Integral ABS?

The BMW Motorrad ABS ensures riding stability on any surface within the limits of riding physics.

136 TECHNOLOGY IN DETAIL

From a speed greater than 2.5 mph (4 km/h), the BMW Motorrad ABS can ensure riding stability on any surface within the limits of riding physics. At lower speeds, the BMW Motorrad ABS cannot provide optimal support on all surfaces due to system limitations.

The system is not optimized for the special conditions encountered under the extreme conditions of competitive off-road and race-track use.

Special situations

To detect the tendency of the wheels to lock up, the speeds of the front and rear wheel are compared. If implausible values are detected over a longer period of time, the ABS function is deactivated for safety reasons and an ABS fault is indicated. The condition for a fault code is the completed self-diagnosis.

In addition to problems on the BMW Motorrad Integral ABS, unusual driving conditions can also lead to a fault code.

Unusual driving conditions:

- Heating up on the main or auxiliary stand at idle or with gear engaged.
- Rear wheel locked by the engine brake for a lengthy period, for example while descending on a loose surface.

Should a fault code result due to one of the driving conditions described above, the ABS function can be reactivated by switching the ignition off and then on again.

How important is regular maintenance?



WARNING

Failure to have maintenance performed on the brake system regularly.

Accident hazard

- To ensure that the ABS is in a properly maintained condition, it is vital that the specified service intervals be observed.

Reserves for safety

But remember: the potentially shorter braking distances which BMW Motorrad Integral ABS permits must not be used as an excuse for careless riding. ABS is primarily a means of ensur-

ing a safety margin in genuine emergencies.

Be careful in curves! When you apply the brakes on a corner, the motorcycle's weight and momentum take over and even BMW Motorrad Integral ABS is unable to counteract their effects.

Further development of ABS to ABS Pro

In the past, the BMW Motorrad ABS system provided for a very high level of safety while braking during straight-ahead riding. Now ABS Pro also offers increased safety even when braking in curves. ABS Pro stops the wheels from locking up, even in the event that the brakes are applied quickly. ABS Pro reduces abrupt changes in steering forces, especially during shock braking, and therefore decreases the risk of the occurrence of inadvertent lift-off of the vehicle.

ABS control

From a technical standpoint, ABS Pro adjusts the ABS control to the angle of inclination of the motorcycle in dependence on the respective riding situation. Signals for the

roll and yaw rate and the lateral acceleration are used to determine the inclination of the motorcycle. The signals come from the yaw rate sensor, which is already used for Dynamic Traction Control DTC and for Dynamic ESA. With an increasing inclination, the brake pressure gradient is increasingly limited at the start of braking. This results in a slower pressure buildup. In addition, the pressure modulation in the range of the ABS control is more uniform.

Advantages for the rider

The advantages of ABS Pro for the rider are sensitive response and high braking and riding stability with the best possible deceleration, even in curves.

DYNAMIC TRACTION CONTROL (DTC)

How does DTC work?

The BMW Motorrad DTC compares the wheel speeds of the front and rear wheel. Differences in the relative rotation speeds allow the system to determine the slip rate, and thus the stability reserves at the rear wheel. The engine-management system adapts the engine

torque when the slip limit is exceeded.



WARNING

Risky riding style

Risk of accident despite DTC

- The rider is always responsible for adapting his/her driving style.
- Do not reduce the system's extra safety margin with careless riding or unnecessary risks.



WARNING

Risky riding style

Risk of accident despite DTC

- The rider is always responsible for adapting his/her driving style.
- Do not reduce the system's extra safety margin with careless riding or unnecessary risks.

What is the design baseline for BMW Motorrad DTC?

BMW Motorrad DTC is designed as an assistant system for the rider and for use on public roads. The extent to which the rider affects DTC control can be considerable (weight shifts when cornering, items of luggage loose on the motorcycle), especially when style of riding takes rider and machine close to the limits imposed by physics.

The system is not optimized for the special conditions encountered under extreme weather during off-road and race-track use. You have the option of deactivating the BMW Motorrad DTC system for these circumstances.

Special situations

As lean angles increase, acceleration potential is also progressively restricted by the laws of physics. This can result in reduced acceleration when coming out of very tight curves.

To detect spinning or slipping away of the rear wheel, the speeds of the front and rear wheel are compared and the angle is considered, for example. If these values are detected to be implausible for a long period, a replacement value is used for the angle and the DTC function is deactivated. In these cases, a DTC error is displayed. A self-diagnosis routine must be completed before the error will be displayed.

The BMW Motorrad DTC can issue an error message under

the exceptional riding conditions outlined below.

Unusual riding conditions:

- Driving on the rear wheel (wheelie) for a longer period with DTC deactivated.
- Rear wheel spinning in place with front brake engaged (burn out).
- Heating up on an auxiliary stand at idle speed or with gear engaged.

If the front wheel loses contact to the ground during extreme acceleration, the DTC reduces the engine torque until the front wheel touches the ground again.

BMW Motorrad recommends that you respond to this condition by twisting back the throttle grip somewhat to return to stable dynamic operating conditions as quickly as possible.

On a slippery surface, the throttle grip should never be suddenly twisted back completely unless the clutch is disengaged at the same time. The engine braking torque can cause the rear wheel to slip, resulting in an unstable driving state. This case cannot be controlled by the BMW Motorrad DTC.

ELECTRONIC CHASSIS AND SUSPENSION ADJUSTMENT (ESA)

Adjustment options

Using the Dynamic ESA electronic suspension adjustment system you can easily adjust your motorcycle to the load being carried and the road condition.

Using leveling sensor, Dynamic ESA detects movements of the running gear and responds to them by adjusting the damping valves. As a result, the running gear is adjusted to the conditions of the ground. Starting from the ROAD basic setting, the damping can also be set harder with DYNAMIC. The chassis and suspension setting depends on the selected riding mode. Damping set by the riding mode can be changed by the rider.

Dynamic ESA calibrates itself at regular intervals when the vehicle is at a standstill and the engine is running to ensure that the system is functioning properly. The chassis and suspension cannot be adjusted while the system is being calibrated.

RIDING MODE

Selection

Three riding modes allow the motorcycle's characteristics to adapt to the prevailing weather conditions, the road and traffic, and the rider's style of riding:

- RAIN
- ROAD
- DYNAMIC

Each riding mode affects the behavior of the motorcycle in a different way. DTC can be switched off in each mode; the explanations below invariably refer to conditions with the system switched ON. The last selected riding mode is reactivated automatically after the ignition is switched off and on again.

The following always applies:

The sportier the selected mode, the more directly the engine power can be utilized. At the same time, the level of rider assistance that the DTC system offers decreases accordingly.

Therefore, consider the following when selecting the riding mode: The sportier the setting, the more demanding the requirements for the driving skill of the rider are!

RAIN

The engine output is only partially available. Power increase when you open the throttle is reserved, engine response is correspondingly soft.

The DTC system intervenes early enough to prevent the rear wheel from spinning. On roads with high to medium friction coefficients (dry and wet asphalt to dry cobblestones) the vehicle remains very stable; movements of the tail are clearly perceptible only on slippery roads (wet bitumen or wet cobblestones).

ROAD

In this mode the full engine output is available. Power increase when you open the throttle is more direct than in RAIN mode, the engine responds more rapidly. DTC system intervention is later than in RAIN mode. The vehicle remains stable on road surfaces with high to moderate coefficients of friction (traction) (dry and wet asphalt as well as dry cobblestones). Slight rear-wheel drift is perceptible. Movements of the tail are clearly perceptible on slippery road surfaces (wet bitumen or wet cobblestones).

DYNAMIC

The DYNAMIC mode is the sportiest mode. Power increase and engine response are the same as in ROAD mode. However, the driver's request is implemented much more directly. DTC system intervention is even later, which means that even on dry asphalt drifting is possible under sharp acceleration when cornering.

Changing setting

The changeover of the functions in the engine control and the DTC is only possible when there is no drive torque being applied to the rear wheel.

To stop transmission of drive torque,

- Motorcycle must be stopped with the ignition switched on

or

- throttle grip must be twisted back.

First the desired riding mode is preselected. The new selection is not activated until the specified conditions are present in all affected systems.

The selection menu does not disappear in the display until the riding mode has been switched over.

TIRE PRESSURE CONTROL (RDC)

- with tire pressure monitor (TPM)^{OE}

Function

A sensor is located in each tire, which measures the air temperature and the inflation pressure inside the tire and sends these values to the control unit. The sensors are equipped with a switch, which does not enable the transmission of the measured values until a speed of approx. 19 mph (30 km/h) is reached. The display shows "--" for each tire until the tire-pressure signal is received for the first time. The sensors continue to transmit the measured values for approx. 15 minutes after the motorcycle comes to a stop.

If a TPC/RDC control unit is installed, however the wheels have no sensors, then an error message is output.

Temperature compensation

The inflation pressure within a tire is sensitive to temperature: it responds to higher tire temperatures by increasing, and to lower temperatures by dropping. Tire temperature, in turn, varies according to the ambient

temperature as well as in response to driving style and trip duration.

The tire pressures are shown temperature-compensated in the multifunction display; they refer to a tire temperature of 68 °F (20 °C). No temperature compensation is available in the inflation pressure gauges at filling stations, meaning that the measured tire inflation pressure varies according to tire temperature. As a result, the pressure figures indicated by the gauges at filling stations will usually vary from those appearing in the multifunction display. The warmer the tire, the more the tester reading exceeds the display value.

Adjusting inflation pressure

Compare the TPC/RDC value in the multifunction display with the value on the back cover of the Rider's Manual. The difference between the two values must be compensated with the air pressure tester at the filling station.

Example: According to the Rider's Manual, the tire inflation pressure is to be 42 psi (2.9 bar), however 39 psi (2.7 bar) is shown in the mul-

tifunction display. The tester at the filling station indicates 36 psi (2.5 bar). This value must be increased by 3 psi (0.2 bar) to 39 psi (2.7 bar) in order to produce the correct tire inflation pressure.

GEAR SHIFT ASSISTANT

- with Gearshift Assistant Pro^{OE}

Pro gearshift assistant

Your motorcycle is equipped with a gearshift assistant originally developed for racing but now specially adapted for touring use. It allows you upshift and downshift under almost any load conditions and in virtually all engine-speed ranges without operating the clutch or accelerator.

Benefits

- 70-80 % of all gear changes can be performed without using the clutch.
- Less movement between pilot and pillion due to shorter gear-change intervals.
- Throttle does not have to be closed when changing gear under acceleration.
- During deceleration and downshifts (throttle plate closed) the system blips the

throttle to obtain the correct engine speed.

- Shifting times are faster than when the clutch is used to change gears.

For the system to detect the rider's intention to change gear, the gearshift lever previously not operated must be moved against the force of the spring by a certain amount of "over-travel" in the desired direction with a normal to brisk action and held in that position until the gear change is completed. A further increase of the force applied to the gearshift lever during the gear-shift operation is not necessary. After the gear change is completed, the gearshift lever must be fully released before the gearshift assistant Pro can execute a new gear change. When changing gear using the gearshift assistant function, the throttle setting (throttle grip position) must be kept constant before and during the gear-shift operation. Changing the accelerator twist-grip position during the gear-shift operation may cause the function to abort and/or the gear change to fail. No support is provided by the gearshift as-

sistant during gear changes made using the clutch.

Downshifts

- Downshifts are assisted up to the speed at which the engine reaches maximum rpm in the gear to be engaged. Over-revving is thus prevented.



Maximum engine speed

max 8500 min⁻¹

Upshifts

- Upshifting is supported until the idling speed is reached in the target gear.
- This prevents the idling speed from being dropped below.



Idle speed

900±50 min⁻¹ (Engine at operating temperature)

HILL START CONTROL

Hill Start Control function

The Hill Start Control Pro prevents uncontrolled rollback on slopes by intervening specifically in the partial integral ABS brake system without the rider having to continuously operate the brake lever. When the Hill Start Control Pro is activated,

pressure builds up in the rear brake system so that the motorcycle remains stationary on a sloping surface.

The brake pressure in the brake system depends on the gradient.

The effect of brake pressure on behavior when riding off

- Stopping on a slight incline builds up only a small amount of brake pressure. The brake is released quickly when riding off, making it possible to ride off more smoothly. Additional opening up of the throttle grip is hardly even necessary.
- Stopping on a steeper slope increases the amount of brake pressure built up. The brake is a bit slower to release when riding off. More torque is required to ride off, making additional opening of the throttle grip necessary.

Behavior when the vehicle is rolling or slipping

- The brake pressure increases when the vehicle is rolling with the Hill Start Control Pro activated.
- If the rear wheel skids, the brake is released again after approx. 3 ft (1 m). This prevents slipping down the hill

with the rear wheel locked up, for example.

Releasing the brake when stopping the engine

The Hill Start Control Pro is deactivated when the engine is switched off using the emergency-off switch or when the side stand is folded down.

In addition to indicator and warning lights, the following vehicle behavior should make the rider aware that the Hill Start Control Pro is deactivated:

Brake warning jerk

- The brake is released briefly and is immediately reactivated.
- This causes a jerking behavior that the rider can feel.
- The partial integral ABS brake system sets a speed of approx. 1.8 mph (3 km/h).
- The rider must brake the vehicle manually.
- After two minutes, or when the brake is applied, Hill Start Control Pro is deactivated completely.



When the ignition is switched off, the holding pressure is built up immediately and without brake warning jerk.

ADAPTIVE FRONT LIGHTING

- with Adaptive Lights^{OE}

How does the adaptive front lighting work?

The standard installed dimming unit in the headlight consists of a centrally arranged, movable xenon projection module with reflection mirror. Ride height sensors at the front and rear wheel suspension provide data for ongoing headlight distance control. Thanks to the pitching compensation, the light always illuminates the optimal, preset area when riding on straight stretches of road, regardless of the riding conditions and load status.

The adaptive front lighting also includes a servomotor, which turns the standard static reflection mirror into a swivel mirror. The mirror rotates around an axis, depending on the angle, and compensates for the angle of roll of the vehicle. In addition to the pitching compensation, the low-beam headlight learns to compensate for the angle that is driven. Both movements are overlaid so that a highlight in the curve results.

MAINTENANCE

09

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GENERAL NOTES

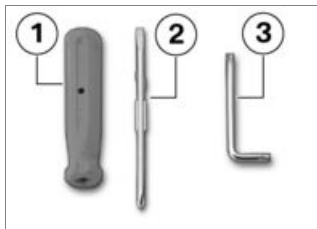
The 'Maintenance' chapter describes work involving the checking and replacement of wear parts that can be performed with a minimum of effort.

If special tightening torques are to be taken into account for installation, these are listed. An overview of all required tightening torques is contained in the chapter "Technical data". Information on additional preventive maintenance and repair procedures is provided in the repair instructions for your motorcycle on DVD, which you can obtain from your authorized BMW Motorrad retailer.

Special tools and thorough specialized knowledge are required to carry out some of the work described here. If you are in doubt, consult a specialist workshop, preferably your authorized BMW Motorrad retailer.

ONBOARD VEHICLE TOOL KIT

Standard tool kit



- 1** Screwdriver handle
- 2** Reversible screwdriver insert
Phillips PH1 and Torx T25
- 3** Torx wrench, T25/T30
T25 on short end, T30 on long end
 - Replacing high-beam headlight light source (➔ 165).
 - Remove license-plate carrier.

FRONT-WHEEL STAND

Mounting front-wheel stand

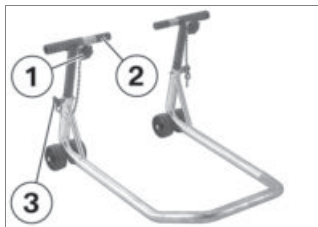


ATTENTION

Use of BMW Motorrad front wheel stand without additional center or auxiliary stand

Component damage cause by tipping over

- Place the motorcycle on a center or auxiliary stand before lifting the front wheel with the BMW Motorrad front-wheel stand.
- Use base stand with part number (83 30 0 402 241) in combination with (83 30 0 402 243) front wheel mount.
- Make sure ground is level and firm and place the motorcycle on its center stand.



- Unscrew retaining screws **1**.
- Push the two mounting pins **2** outward, continuing until the

front suspension fits between them.

- Use locating pins **3** to set front wheel stand to desired height.
- Center the front-wheel stand relative to the front wheel and push it against the front axle.



ATTENTION

The left mounting pin moves too much

Damage to the sensor ring of the BMW Motorrad Integral ABS

- Only push the left mounting pin so far inward that it does not touch the sensor ring.
- Push two mounting pins **2** through the triangles of the brake caliper fixture toward the inside so that the front wheel can still be rolled through.

150 MAINTENANCE

- Tighten the retaining screws **1**.



ATTENTION

Lifting off the center stand if the motorcycle is raised too high

Component damage caused by tipping over

- When raising the motorcycle, make sure that the center stand remains in touch with the ground.
- Apply uniform pressure to push front-wheel stand down and raise motorcycle.

ENGINE OIL

Checking engine oil level

WARNING

Engine oil level too low

Risk of accident due to engine seizure

- Always make sure that the oil level is correct.

ATTENTION

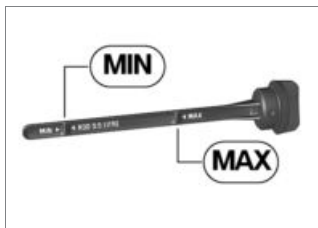
Misinterpretation of the oil filling quantity, as the oil level is temperature-dependent (the higher the temperature, the higher the oil level)

Engine damage

- Only check the oil level after a longer journey or when the engine is warm.
- Make sure the surface is level and firm and place the motorcycle on its main stand at operating temperature.
- Allow the engine to idle until the fan starts up, then allow it to idle one minute longer.
- Switch off engine and wait for approximately one minute so that the oil can drain down.
- Wipe the area around the oil filler opening clean.



- Remove the oil dipstick **1** and clean using a dry cloth.
- Fit the oil level dipstick onto the oil filler opening, however do not screw in.
- Remove oil level dipstick and check oil level.



Specified level of engine oil

Between the minimum and maximum marks (Engine at operating temperature)



Engine oil, quantity for topping up

max 0.5 quarts (max 0.5 l)
(Difference between MIN and MAX)

If oil level is below MIN mark:

- Topping up engine oil (→ 151).

If oil level is above MAX mark:

- Have oil level corrected at a specialist workshop, preferably an authorized BMW Motorrad retailer.
- Install oil level dipstick.

Topping up engine oil

- Make sure ground is level and firm and park motorcycle.
- Wipe area around fill location clean.



- Remove oil dipstick **1**.



ATTENTION

Use of too little or too much engine oil

Engine damage

- Always make sure that the oil level is correct.
- Add engine oil up to specified level.
- Checking engine oil level (→ 150).
- Install oil dipstick.

BRAKE SYSTEM

Checking brake operation

- Make sure ground is level and firm and park motorcycle.
- Actuate the handbrake lever.
 - » Pressure point must be clearly perceptible.
- Actuate the footbrake lever.
 - » Pressure point must be clearly perceptible.

If no clear pressure points are perceptible:



ATTENTION

Improper working on the brake system

Endangering of the operating safety of the brake system

- Have all work on the brake system carried out by experts.

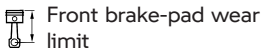
- Have the brakes checked at an authorized workshop, preferably an authorized BMW Motorrad retailer.

Check front brake pad thickness

- Make sure ground is level and firm and park motorcycle.



- Visually inspect left and right brake pads to determine their thickness. Viewing direction: between wheel and front suspension toward brake pads **1**.



min 0.04 in (min 1.0 mm)
(Only friction material without carrier plate. The wear markings (grooves) must be clearly visible.)

If the wear indicators are no longer clearly visible:



Dropping below the minimum pad thickness

Reduced braking action, damage to the brake

- In order to ensure the operating reliability of the brake system, make sure that the brake pads are not worn beyond their minimum thickness.

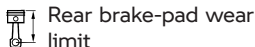
- Have the brake pads replaced at an authorized service facility, preferably an authorized BMW Motorrad retailer.

Check rear brake pad thickness

- Make sure ground is level and firm and park motorcycle.



- Conduct a visual inspection of the brake pad thickness. Viewing direction: from below toward brake pads **1**.



min 0.04 in (min 1.0 mm)
(Only friction material without carrier plate. The wear markings (grooves) must not be reached.)

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If the wear indicating mark is no longer visible:



WARNING

Dropping below the minimum pad thickness

Reduced braking action, damage to the brake

- In order to ensure the operating reliability of the brake system, make sure that the brake pads are not worn beyond their minimum thickness.
- Have the brake pads replaced at an authorized service facility, preferably an authorized BMW Motorrad dealer.

Checking the front brake fluid level



WARNING

Insufficient or contaminated brake fluid in the brake fluid reservoir

Considerably reduced braking power caused by air, dirt or water in the brake system

- Stop riding immediately until fault is rectified.
- Check brake fluid level regularly.
- Make sure that the lid of the brake fluid reservoir is cleaned before opening.
- Make sure that brake fluid is used from a sealed container only.
- Make sure ground is level and firm and place the motorcycle on its center stand.
- Move handlebars to straight-ahead position.



- Check brake fluid level at brake fluid reservoir for front wheel brake **1**.

 The brake fluid level in the brake-fluid reservoir drops due to brake pad wear.



Front brake fluid level

Brake fluid, DOT4

The brake fluid level must not fall below the MIN mark. (Brake fluid reservoir horizontal, motorcycle standing upright and handlebars straight ahead.)

If the brake fluid level falls below the approved level:

- Have the defect rectified as quickly as possible by a specialist workshop, preferably an authorized BMW Motorrad retailer.

Checking the rear brake fluid level



WARNING

Insufficient or contaminated brake fluid in the brake fluid reservoir

Considerably reduced braking power caused by air, dirt or water in the brake system

- Stop riding immediately until fault is rectified.
- Check brake fluid level regularly.
- Make sure that the lid of the brake fluid reservoir is cleaned before opening.
- Make sure that brake fluid is used from a sealed container only.

- Make sure ground is level and firm and place the motorcycle on its center stand.

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- Check brake fluid level at brake fluid reservoir for rear wheel brake **1**.

 The brake fluid level in the brake-fluid reservoir drops due to brake pad wear.



Rear brake fluid level

Brake fluid, DOT4

The brake fluid level must not fall below the MIN mark. (Brake-fluid reservoir horizontal, motorcycle standing upright.)

If the brake fluid level falls below the approved level:

- Have the defect corrected as soon as possible by a BMW authorized workshop, preferably an authorized BMW Motorrad retailer.

CLUTCH

Check clutch function

- Pull back the clutch lever.
 - » Pressure point must be clearly perceptible.

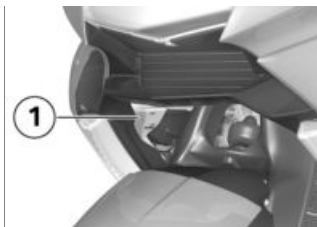
If no clear pressure point can be felt:

- Have the clutch checked by an authorized workshop, preferably an authorized BMW Motorrad retailer.

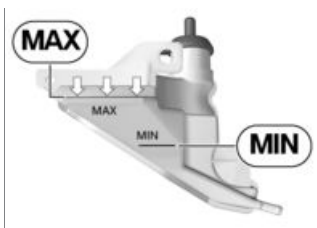
COOLANT

Check coolant level

- Make sure ground is level and firm and park motorcycle.
- Allow the engine to cool down.



- Read off coolant level on expansion tank **1**.



Required coolant level

Between MIN and MAX marks on the expansion tank (Engine cold)

If coolant level drops below approved level:

- Have the defect corrected as soon as possible by an authorized workshop, preferably an authorized BMW Motorrad retailer.

TIRES

Checking tire pressure



WARNING

Incorrect tire inflation pressure

Poorer handling characteristic of motorcycle, reduction of tire service life

- Ensure proper tire inflation pressure.

- Park motorcycle. Ensure that the ground is firm and level.



Before adjusting the tire pressure, check the information on temperature compensation and tire pressure adjustment in the "Technology in detail" chapter.

- Check tire pressure against data below.



Front tire pressure

42.1 psi (2.9 bar) (With tire cold)



Rear tire pressure

42.1 psi (2.9 bar) (With tire cold)

If tire pressure is too low:

- Correct tire pressure.

WHEEL RIMS AND TIRES

Check wheel rims

- Make sure ground is level and firm and park motorcycle.
- Subject wheel rims to visual inspection for defects.
- Have damaged rims checked and, if necessary, replaced by a specialist service facility, preferably an authorized BMW Motorrad retailer.

Checking tire tread depth



WARNING

Riding with heavily worn tyres

Risk of accident due to poorer rideability

- If necessary, replace the tyres before the legally specified minimum tread depth is reached.
 - Make sure ground is level and firm and park motorcycle.
 - Measure tire tread depth in main tread grooves with wear indicating marks.
-  Tread wear marks are integrated into the main grooves on every tire. If the tire tread has worn down to the level of the marks, the tire is

completely worn. The locations of the marks are indicated on the edge of the tire, e.g. by the letters TI, TWI or by an arrow.

When the minimum tread depth is reached:

- Replace tires concerned.

WHEELS

Tire recommendation

For every tire size, BMW Motorrad has tested and approved certain tire brands as roadworthy. BMW Motorrad cannot evaluate the suitability of any other tires, and can therefore take no responsibility for their riding safety.

BMW Motorrad recommends only using the tires tested and approved by BMW Motorrad. Extensive information is available at your authorized BMW Motorrad retailer or on the Internet at **bmw-motorrad.com**.

Affect of wheel sizes on suspension control systems

The wheel sizes play a major role in the chassis control systems ABS and DTC. The diameter and width of the wheels stored in the control unit have particular significance as the basis for all necessary calcula-

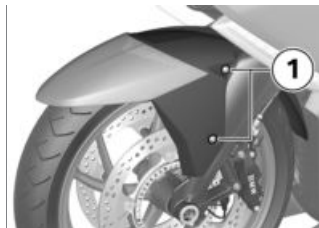
tions. A change in these sizes resulting from conversion to wheels not installed as standard equipment can seriously affect the control efficiency of these systems.

The sensor rings required for wheel speed detection must also match the installed control systems and may not be replaced.

If you want to equip your motorcycle with different wheels, please contact a specialist service facility, preferably a BMW Motorrad retailer. In some cases the data stored in the control units can be adapted for the new wheel sizes.

Removing front wheel

- Make sure ground is level and firm and place the motorcycle on its center stand.



- Remove the screws **1** on the left and right.

- Pull out the front wheel cover toward the front.



- Unclip retaining clip **1** of the sensor cable from the brake line.
- Remove cable tie **2**.
- Mask off area of wheel rim that could be scratched in process of removing brake calipers.

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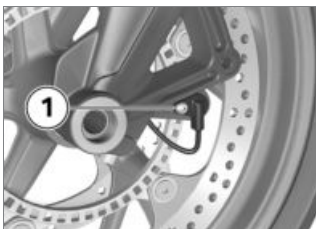
ATTENTION

Unintentional pressing together of brake pads

Component damage when mounting the brake caliper or when pressing the brake pads apart

- Do not actuate the brakes with the brake caliper removed.
- Remove screws **3** of brake calipers on left and right.

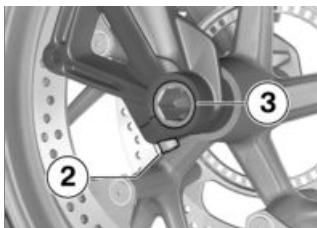
- Carefully pull brake calipers back and out until clear of brake disks.



- Remove screw **1** and take wheel speed sensor out of bore.
- Raise front of motorcycle, preferably using a BMW Motorrad front wheel stand, continuing until the wheel rotates freely.
- Mounting front-wheel stand (→ 149).



- Push brake pads **4** apart slightly by rocking brake caliper **5** back and forth against brake disk **6**.



ATTENTION

Incorrect spacing between the sensor ring and wheel speed sensor caused by poorly aligned threaded bushing in the front suspension

Damage to the wheel speed sensor. ABS malfunction

- The left clamp fixes the threaded bushing in position and must not be loosened or removed.
- Remove right-hand axle clamping screw **2**.
- Remove quick-release axle **3** while supporting wheel.
- Roll front wheel forward to remove it.

Installing front wheel

WARNING

Use of a wheel which does not comply with series specifications

Malfunctions during control interventions by ABS and DTC

- Please see the information on the effect of wheel sizes on the ABS and DTC chassis control systems at the beginning of this chapter.

ATTENTION

Tightening of screwed connections with incorrect tightening torque

Damage or loosening of screwed connections

- Always have the tightening torques checked by a specialized workshop, preferably an authorized BMW Motorrad retailer.

ATTENTION

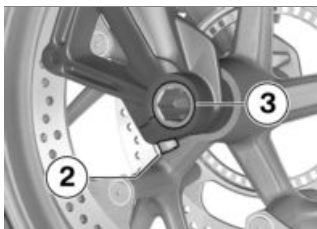
Front wheel installation opposite the running direction

Accident hazard

- Observe running direction arrows on tire or rim.

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- Roll the front wheel into the front suspension.



- Lift the front wheel and install the quick-release axle **3** using an appropriate torque.



Quick-release axle in threaded bush (wheel carrier)

37 lb/ft (50 Nm)

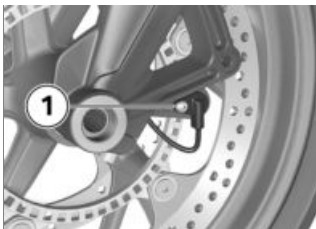
- Tighten right-hand axle clamping screw **2** using an appropriate torque.



Clamping screw for quick-release axle to wheel carrier

14 lb/ft (19 Nm)

- Remove the front-wheel stand.



- Insert ABS sensor into socket and install screw **1**.



Wheel speed sensor on the front suspension/rear brake caliper

Thread-locking compound: micro-encapsulated

3 lb/ft (4.6 Nm)

- Slide the brake calipers onto the brake rotors.



- Install securing screws **3** on left and right with specified torque.



Front brake caliper at wheel carrier

21 lb/ft (28 Nm)



- Clip retaining clip **1** of the sensor cable to the brake line.
- Secure new cable tie **2**.
- Remove adhesive tape from wheel rim.
- Press handbrake lever firmly a number of times until resistance point is noticeable.



- Install front-wheel cover and fit screws **1** on the left and right.



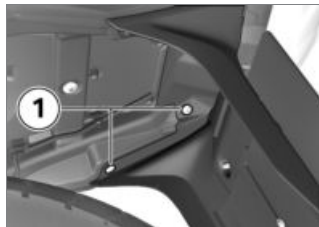
Front-wheel cover on the wheel carrier

Thread-locking compound: micro-encapsulated

1 lb/ft (2 Nm)

Removing rear wheel

- Make sure ground is level and firm and place the motorcycle on its center stand.
- Remove cases, if applicable.



- Remove the screws **1** on the left and right.
- Remove license-plate carrier.
- Shift into first gear.



CAUTION

Hot exhaust system

Burn hazard

- Do not touch hot exhaust system.

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- Remove the five bolts **1** of the rear wheel, holding the wheel as you do so.
- Lower the rear wheel to the ground and roll out toward rear.

Installing the rear wheel



WARNING

Use of a wheel which does not comply with series specifications

Malfunctions during control interventions by ABS and DTC

- Please see the information on the effect of wheel sizes on the ABS and DTC chassis control systems at the beginning of this chapter.



ATTENTION

Tightening of screwed connections with incorrect tightening torque

Damage or loosening of screwed connections

- Always have the tightening torques checked by a specialized workshop, preferably an authorized BMW Motorrad retailer.



ATTENTION

Rear wheel installation counter to running direction

Risk of accident

- Observe running direction arrow on tire or rim.

- Roll and mount rear wheel onto rear wheel support.



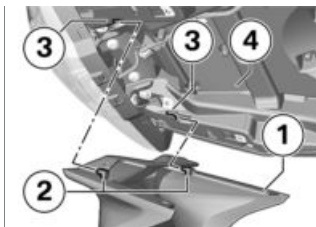
- Fit five bolts **1** and tighten diagonally with specified torque.



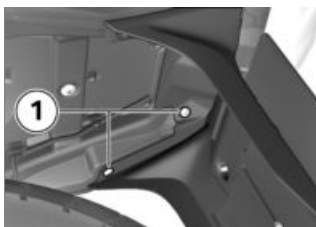
Tighten rear wheel on wheel flange

Tightening sequence: Tighten crosswise

44 lb/ft (60 Nm)



- Attach the license-plate carrier **1** and hook the retaining lugs **2** into the recesses **3** on the rear carrier **4**.

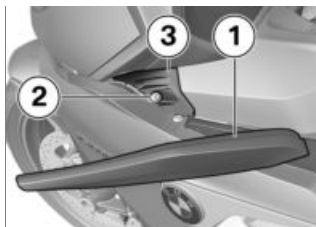


- Install screws **1** on left and right.

LIGHT SOURCE

Replacing high-beam headlight light source

 The description below steps you through the procedure for replacing the left bulb. Replacement is carried out in the same way on the right side.



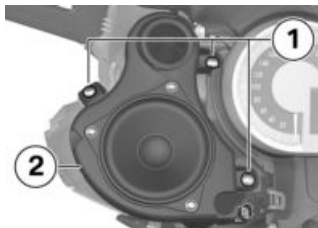
- Turn wind deflection wing **1** out.
- Remove screw **2** and work side cover **3** to the rear and remove.



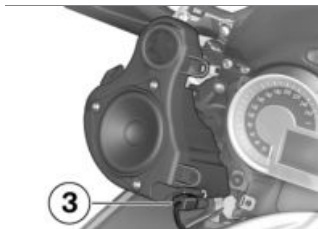
- Turn on ignition and raise windshield to its highest position.
- Remove the screw **1**.
- Remove screw **2** and work hand guard **3** to the side to remove.
- Turn off the ignition and wait until the windshield has moved to its lowest position.

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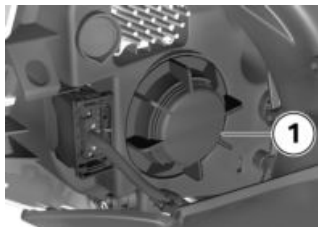
- with audio system US version
with navigation preparation ^{OE}



- Remove screws **1**.
- Work speaker unit **2** to the rear to remove.



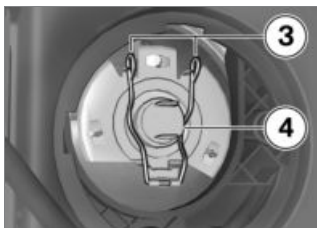
- Disconnect plug connection **3**.◀



- Turn covers **1** counterclockwise to remove.



- Disconnect plug **2**.



- Release spring clip **3** at left and right and swing it up.
- Remove bulb **4**.
- Replace defective light source.



Bulb for high-beam
headlight

H7 12 V 55 W

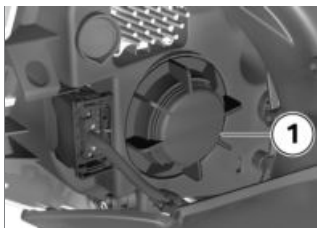
- To protect the glass against soiling, only grasp the light source by the base.



- Install bulb **4** while ensuring correct position of lug **5**.
- Insert spring clip **3**.

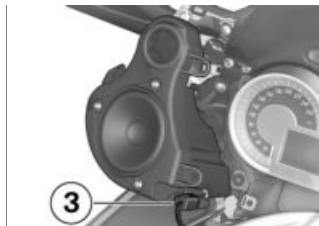


- Connect plug **2**.



- Turn covers **1** clockwise to install.

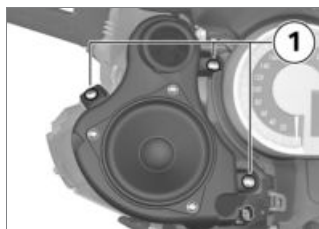
- with audio system US version
with navigation preparation^{OE}



- Connect plug connection **3**.



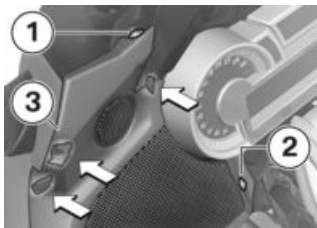
- Place the speaker in the mount **4**.



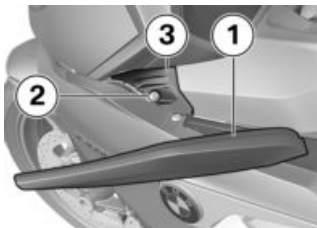
- Install screws **1**.

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- Turn on ignition and raise windshield to its highest position until the stop.



- Attach the hand guard **3** and hook into guides (arrows).
- Install screw **2**.
- Install screw **1**.
- Turn off the ignition and wait until the windshield has moved to its lowest position.



- Fit side cover **3** and install screw **2**.
- Align wind deflection wing **1**.

Replacing the low-beam headlight light source

The low beams can only be replaced as a whole unit.

- For details please contact a BMW authorized workshop, preferably an authorized BMW Motorrad retailer.

Replace additional LED headlight

– with additional headlight^{OE}

The auxiliary LED headlight can only be replaced as a complete unit.

- For details please contact a specialist service facility, preferably an authorized BMW Motorrad Retailer.

Replacing the LED turn indicator

LED turn indicators can be completely replaced only.

- Please contact a specialist service facility for this purpose, preferably an authorized BMW Motorrad retailer.

Replace LED tail light

The LED tail light can only be completely replaced.

- Please contact a specialist service facility for this purpose, preferably an authorized BMW Motorrad retailer.

Replacing the LED license plate light

The LED license plate light can only be replaced as a complete unit.

- For details please contact a BMW authorized workshop, preferably an authorized BMW Motorrad retailer.

JUMP-STARTING



CAUTION

Touching live parts of the ignition system when the engine is running

Electrocution

- Do not touch parts of the ignition system when the engine is running.



ATTENTION

Current too high when jump-starting the motorcycle

Cable fire or damage to the motorcycle electronics

- Do not jump-start the motorcycle using the power socket, only via the battery terminal.



ATTENTION

Contact between crocodile clips of jump leads and motorcycle

Danger of short circuit

- Use jump leads fitted with fully insulated crocodile clips at both ends.



ATTENTION

Jump-starting with a voltage higher than 12 V

Damage to the motorcycle's electronics

- The battery of the donor motorcycle must have a voltage of 12 V.

- Do not disconnect the battery from the onboard electrical system when jump-starting the engine.
- Remove rider's seat (→ 109).
- Allow engine on support motorcycle to run while jump-starting.
- Begin by clamping one end of the red jumper cable to the positive terminal of the discharged battery and clamping the other end to the positive terminal of the donor battery.
- Then clamp one end of the black jumper cable to the donor battery's negative ter-

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minial while connecting the other end to discharged battery's negative terminal.

- Start engine of vehicle with discharged battery in usual way; if engine does not start, wait a few minutes before repeating attempt in order to protect starter motor and donor battery.
- Allow both engines to idle for a few minutes before disconnecting jumper cables.
- Disconnect jumper lead from negative terminal first, then from positive terminal.
- Installing rider's seat (➡ 110).

BATTERY

Maintenance instructions

Correct battery maintenance combined with proper charging and storage procedures extends the battery's service life, and is also required for warranty claims.

Compliance with the points below is important in order to maximize battery life:

- Keep the surface of the battery clean and dry.
- Do not open the battery.
- Do not top up with water.
- Be sure to read and comply with the instructions for

charging the battery on the following pages.

- Do not turn the battery upside down.



ATTENTION

Discharging of the connected battery by the vehicle electronics (e.g. clock)

Total discharge of battery leading to a rejection of warranty claims

- During riding breaks of more than 4 weeks, connect a trickle-charger to the battery.



BMW Motorrad has developed a trickle-charger specially designed for compatibility with the electronics of your motorcycle. Using this charger, you can keep the battery charged during long periods when the motorcycle is not being used without having to disconnect the battery from the motorcycle's onboard systems. Additional information is available at your authorized BMW Motorrad retailer.

Charging connected battery



ATTENTION

Charging the battery connected to the vehicle using the battery terminals

Damage to the motorcycle's electronics

- Disconnect the battery before charging on the battery terminals.



ATTENTION

A fully discharged battery must be charged via a power socket or extra socket.

Damage to vehicle electronics

- A fully discharged battery (battery voltage less than 12 V, indicator lights and multifunction display remain off when ignition is switched on) must always be charged directly at the poles of the **disconnected** battery.



ATTENTION

Unsuitable chargers connected to the power socket

Damage to charger and vehicle electronics

- Use suitable BMW chargers. The correct charger is available through your authorized BMW Motorrad retailer.

- Charge disconnected battery via onboard socket.



The motorcycle's onboard electronics know when the battery is fully charged. The onboard socket is switched off when this happens.

- Comply with operating instructions of charger.



If you are unable to charge the battery via the onboard socket, you may be using a charger that is not compatible with your motorcycle's electronics. In this case, charge the battery directly from the terminals of the battery disconnected from the vehicle.

Charging disconnected battery

- Charge battery using a suitable charger.

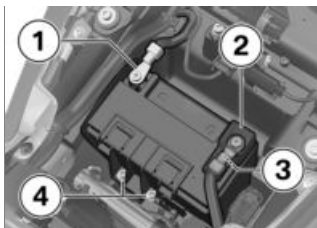
172 MAINTENANCE

- Comply with operating instructions of charger.
- Once the battery is fully charged, disconnect the charger's terminal clips from the battery terminals.

 In the case of longer periods when the motorcycle is not being used, the battery must be recharged regularly. See the instructions for caring for your battery. Always fully recharge the battery before returning it to use.

Removing the battery

- Remove rider's seat ( 109).
- with anti-theft alarm system (DWA)^{OE}
- Switch off the anti-theft alarm system.◀
- Switch off the ignition.



ATTENTION

Incorrect battery disconnection

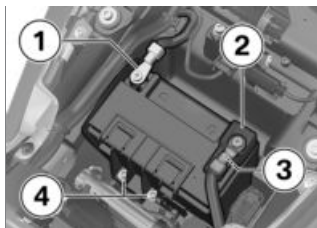
Danger of short circuit

- Follow the disconnection sequence.

- Remove the negative battery cable **1**.
- Detach the protective cap **2** and remove the positive battery cable **3**.
- Remove the screws **4** and remove the retaining bracket.
- Lift the battery up and out; use tilting movements in the event of stiff movement.

Installing battery

- Place battery in battery compartment, positive terminal on right in direction of travel.



- Insert the retaining bracket; install the screws **4**.



ATTENTION

Incorrect battery connection

Danger of short circuit

- Follow the installation sequence.
- First install the positive battery cable **3** and position the protective cap **2**.
- Install the negative battery cable **1**.
- with anti-theft alarm system (DWA)^{OE}
- Switch on the anti-theft alarm system.<
- Installing rider's seat (➡ 110).
- Switch on the ignition.
- Set time and date in menu Settings - Clock And Settings - Date.

FUSES

Replace fuses

- Switch off ignition.
- Remove rider's seat (➡ 109).



- Disconnect fuse connector **1**.



ATTENTION

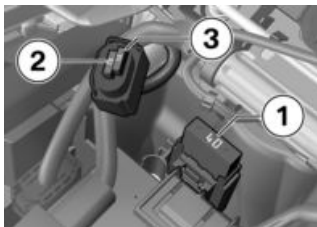
Bypassing defective fuses

Risk of short circuit and fire

- Do not bypass defective fuses.
- Replace defective fuses with new fuses.
- Consult the fuse assignment diagram and replace the defective fuse.
-  If the fuses blow frequently, have the electrical system checked by an authorized specialized workshop, preferably an authorized BMW Motorrad retailer.
 - Fasten fuse connector **1**.
 - Installing rider's seat (➡ 110).

174 MAINTENANCE

Fuse assignments



- 1** 40 A
Electronic engine management
- 2** Not in use
- with audio system US
version with navigation
preparation^{OE}
or
- with preparation for navigation system^{OE}
7.5 A
Audio system
- 3** Not in use
- with anti-theft alarm system (DWA)^{OE}
or
- with central locking system^{OE}
7.5 A
Alarm system
Central locking system

ACCESSORIES

10

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GENERAL NOTES



CAUTION

Use of products from other manufacturers

Safety risk

- BMW Motorrad cannot examine or test each product of outside origin to ensure that it can be used on or in connection with BMW motorcycles without constituting a safety hazard. Nor is this guarantee provided when the official approval of a specific country has been granted. Tests conducted by these instances cannot make provision for all operating conditions experienced by BMW motorcycles and, consequently, they are not sufficient in some circumstances.
- Use only parts and accessories approved by BMW for your motorcycle.

The safety, operation and suitability of the parts and accessory products have been thoroughly tested by BMW. Therefore, BMW assumes responsibility for these products. BMW shall not be held liable for un-

approved parts and accessory products of any kind.

Comply with legal requirements for any modifications.

The motorcycle shall not violate the regulations governing motorcycle approval for highway use applicable in your own country.

Your BMW Motorrad retailer offers you expert advice when choosing genuine BMW parts, accessories and other products. More information on the topic of accessories is available at: **bmw-motorrad.com/equipment**

ONBOARD POWER SOCKETS

Notes on using onboard power sockets:

Automatic shut-off



If this warning symbol is displayed, the vehicle voltage is low. If necessary, onboard power sockets will be turned off temporarily.

The power sockets are also switched off during starting operation and if the maximum load capacity specified in the technical data is exceeded. If multiple onboard power sockets are in operation, the total current may not exceed

the maximum load capacity of 10 A.

Operating electrical accessories

Auxiliary devices being operated at an onboard power socket can only be turned on when the ignition is turned on. If the load is high, the onboard power sockets will also be turned off when the ignition is subsequently turned off. If the power drain is low the sockets remain operational for a certain period of time before being switched off.

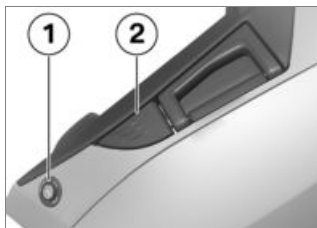
Cable routing

Observe the following when routing cable from power sockets to additional devices:

- Cables must not impede the rider.
- Cables must not restrict the steering angle and riding characteristics.
- Cables must not become trapped.



- Turn the key to the in the case lock to the position indicated by the dot.



- Press lock barrel **1** downward.
- » Release lever **2** pops up.
- Pull the release lever all the way up and open the lid of the case.

CASE

Opening case

- with central locking system^{OE}
- If applicable, open the central locking.<

180 ACCESSORIES

Closing case



- Pull release lever **2** all the way up.
- Close case lid and press down. Ensure that no luggage is trapped between lid and case.

 The case can also be locked if the lock is in the LOCK position. Under such circumstances, ensure that the ignition key is not in the case.

- Push release lever **2** down, continuing until it engages.
- Turn key in case lock into LOCK position and remove.

Removing case



- Turn key in case lock to RELEASE position.
» Handle pops out.



- Pull carry handle **3** up as far as it will go.
» Case is released and can be removed.

Attaching a case

- Fold up the carrying handle as far as it will go.



- Insert case in the brackets **4**.



- Press the carrying handle **3** down until it engages.
- Turn key to LOCK position in pannier lock and remove.

Maximum load and maximum speed

Observe maximum payload and maximum speed.

The following values apply for the combination described here:



Maximum speed when riding with a loaded case

max 112 mph (max 180 km/h)



Payload per case

max 22 lbs (max 10 kg)

TOPCASE

Open the topcase

- with topcase^{OA}
- with central locking system^{OE}
- If applicable, open the central locking.◁



- Turn the key to the in the topcase lock to the position indicated by the dot.



- Press lock barrel **1** forward.
- » Release lever **2** pops up.

182 ACCESSORIES

- Pull the release lever all the way up and open the lid of the topcase.

Closing the Topcase

– with topcase ^{OA}



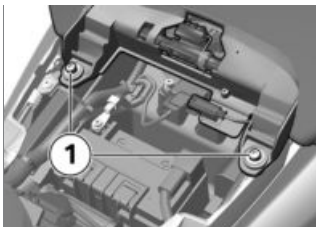
- Pull release lever **2** all the way up.
- Close Topcase lid and hold it down. Ensure that no luggage is trapped between lid and case.

 You can also lock the topcase by turning the lock to the **LOCK** position. Under such circumstances, ensure that the key is not in the topcase.

- Push release lever **2** down, continuing until it engages.
- Turn key in Topcase lock into **LOCK** position then extract it.

Remove passenger seat

- Switch off ignition.
- Remove rider's seat (→ 109).

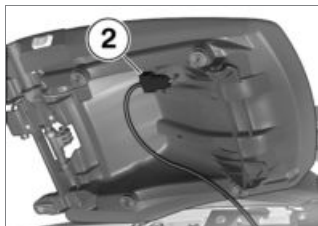


- Remove screws **1**.
- Pull passenger seat forwards slightly and lift.

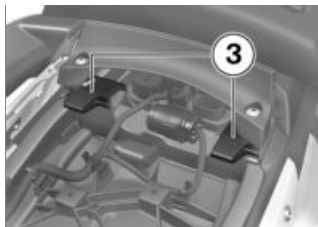


- Disconnect plug connection **2** of the seat heating and remove the passenger seat.
- Lay seat on a clean surface with the upholstered side down.

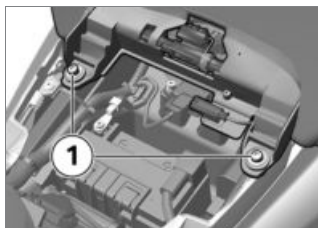
Install passenger seat



- Connect plug connection **2** of the seat heating.



- Slip the rear seat under the mounts **3** and lower it into position.



- Install screws **1**.

Removing Topcase

– with topcase^{OA}

- Remove rider's seat (➡ 109).
- Remove passenger seat (➡ 182).



- Disconnect plug connection **1**.
- Work the topcase end-plug through to the rear.
- Open Topcase.
- If applicable, empty the topcase and lift out the bottom mat.



- Push slide latch **2** toward the outside and hold it in this position.
- Turn rotary latch **3** in the direction indicated by the RELEASE arrow.

184 ACCESSORIES

- » Release warning **4** is visible.
- Close topcase.



- Raise the rear of the topcase and pull it off luggage rack.
- Install passenger seat (➡ 183).
- Installing rider's seat (➡ 110).

Mounting the Topcase

– with topcase^{OA}

- Remove rider's seat (➡ 109).
- Remove passenger seat (➡ 182).
- If applicable, empty the topcase and lift out the bottom mat.



- Set the topcase on the luggage carrier.

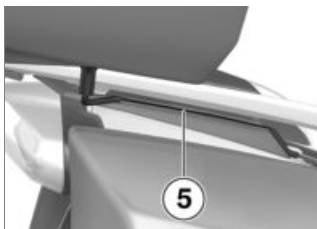
- Open the topcase (➡ 181).



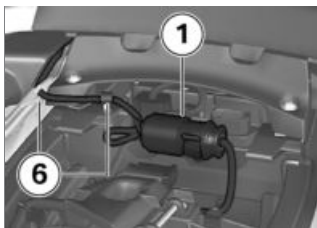
- Turn rotary latch **3** as far as it will go in the direction indicated by the LOCK arrow while pressing down on the back edge of the topcase.
- » Release warning **4** is no longer visible.

If the release warning is still visible the topcase is not correctly secured.

- Make sure that the topcase is correctly seated on the luggage carrier.



- Route the connecting cable forward in cable guide **5**.



- Work the cable into position at positions **6**.
- Close plug connection **1**.
- Install passenger seat (→ 183).
- Installing rider's seat (→ 110).

Maximum load and maximum speed

Observe maximum payload and maximum speed.

The following values apply for the combination described here:

	Maximum speed when riding with a loaded topcase
max 112 mph (max 180 km/h)	
	Payload of Topcase
max 22 lbs (max 10 kg)	

NAVIGATION DEVICE

Install navigation device

- with preparation for navigation system^{OE}
- with navigation system^{OA}
- Switch on the ignition.

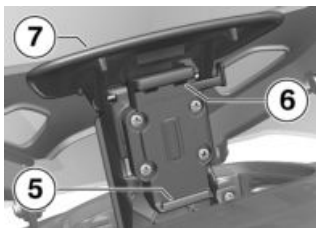


- Press button **1** to open the slot for the navigation device.
 - » Slot cover pops open, windshield moves to top limit position.
- Pull slot cover up as far as it will go.
- From behind, push out cap **2**.



- Operate latch **3** and remove cover **4**.

186 ACCESSORIES



- Initially insert the navigation device into mount **5**, then press it into latching mechanism **6**.
- Check that the navigation device is secure in the cradle.
- Press cover **7** to push cradle with navigation device into the slot until it snaps into position.

Remove navigation device

– with navigation system^{OA}

- Switch on the ignition.



- Press button **1** to open the slot for the navigation device.

» Slot cover pops open, windshield moves to top limit position.

- Pull slot cover up as far as it will go.



- Operate latch **3**, pull the navigation device forward out of holder **6** and lift it up and out.



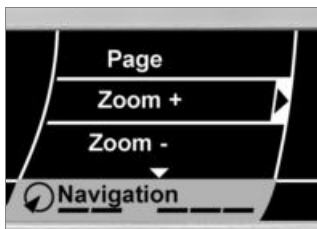
- Install cover **4**.
- Press cover **7** to push the cradle into the slot until it snaps into position.



- Insert cap 2.

Operating navigation device

- with preparation for navigation system^{OE}
- with navigation system^{OA}
- Turn on navigation device, if necessary.
- Call up the Navigation menu.



The control options for the navigation device are shown.

- **View:** you can change between views; the choices are main menu, map, and on-board computer.
- **Zoom +:** performs functions marked with a + sign in the navigation system. In the map

view, for instance, the view zooms in on the map detail.

- **Zoom -:** performs functions marked with a - sign in the navigation system. In the map view, for instance, the view zooms out from the map detail.
- **Speak:** the last navigation announcement is repeated. The announcement is spoken again even if automatic spoken announcements have been turned off in the settings of the navigation system.
- **Mute:** automatic spoken announcements are turned off and on.
- **Display Off:** the display of the navigation device is turned off and on.
- Select desired operation and carry it out by pressing the Multi-Controller to the right.

Special functions

- with preparation for navigation system^{OE}
- with navigation system^{OA}

Integration of the BMW Motorrad Navigators has produced a number of deviations for a few descriptions in the operating instructions for the Navigator.

188 ACCESSORIES

Traffic reports (traffic information channel)

If an audio system is installed in the vehicle, it will transmit the traffic information to the Navigator. The symbol described in the Navigator operating instructions appears on the display.

The BMW Motorrad audio system is unable to receive paid subscription traffic reports.

Reserve fuel level warning

A distance can be defined in the fuel gauge settings for the distance covered on a full tank of fuel. Since the motorcycle transmits the remaining travel range with the current fuel level to the Navigator, manual entry of this value is no longer necessary.

Time and date

The Navigator transmits the time and date to the motorcycle. In order for the instrument cluster to accept this information, it has to be activated in the user settings of the motorcycle.

Security settings

A four-digit PIN can be used to protect the BMW Motorrad Navigator IV, BMW Motorrad Navigator V and BMW Motorrad Navigator VI from unauthorized use (Garmin Lock). If this function is activated, while the Navigator is cradled on the motorcycle and the ignition is switched on you are prompted to add the motorcycle to the list of secured vehicles. If you confirm this question by answering "yes", the Navigator will save the vehicle identification number of this vehicle. A maximum of five vehicle identification numbers can be saved.

Entering a PIN will no longer be required when the Navigator is activated by turning on the ignition switch in any of these vehicles.

Removing the Navigator from the vehicle while the Navigator is on will prompt a request for the PIN for reasons of security.

Screen brightness

Screen brightness is adjusted by the motorcycle while the unit is cradled. Manual input is not possible.

CARE

11

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CARE PRODUCTS

BMW Motorrad recommends that you use cleaning and care products available at your authorized BMW Motorrad retailer. BMW Care Products have been materials tested, laboratory tested, and field tested and provide optimum care and protection for the materials used in your vehicle.



ATTENTION

Use of unsuitable cleaning and care agents

Damage to motorcycle parts

- Do not use any solvents such as nitro thinners, cold cleaners, fuel or similar, and do not use cleaning agents that contain alcohol.



ATTENTION

Use of highly acidic or alkaline cleaning agents

Damage to motorcycle parts

- Observe the dilution ratio on the packaging of the cleaning agents.
- Do not use highly acidic or alkaline cleaning agents.

WASHING YOUR MOTORCYCLE

BMW Motorrad recommends that you use BMW Insect Remover to soften and wash off insects and stubborn dirt from painted parts before washing the motorcycle.

To prevent stains, do not wash the motorcycle immediately after it has been exposed to bright sunlight and do not wash it in the sun.

Make sure that the motorcycle is washed frequently, especially during the winter months.

To remove road salt, clean the motorcycle with cold water immediately after completion of every trip.



WARNING

Damp brake disks and brake pads after washing the motorcycle, after riding through water or in the rain

Poorer braking action, accident hazard

- Brake early until the brake rotors and brake pads are dry.

**ATTENTION**

Increased effect of salt caused by warm water
Corrosion

- Only use cold water to remove road salt.

**ATTENTION**

Damage caused by high water pressure from high-pressure cleaners or steam-jet devices

Corrosion or short circuit, damage to labels, to seals, to hydraulic brake system, to the electrical system and the seat

- Exercise caution when using high-pressure or steam-jet devices.

CLEANING SENSITIVE MOTORCYCLE PARTS

Plastics

**ATTENTION**

Use of unsuitable cleaning agents

Damage to plastic surfaces

- Do not use abrasive cleaners or cleaners containing alcohol or solvents.
- Do not use insect sponges or sponges with a hard surface.

Fairings and panels

Clean trim panel components with water and BMW Motorrad solvent cleaner.

Windshields and lenses are manufactured in plastic

Clean off dirt and insects with a soft sponge and plenty of water.



Soften stubborn dirt and dead insects by covering the affected areas with a wet cloth.

Chrome

Carefully clean chrome parts with plenty of water and BMW Motorrad Care Products motorcycle cleaner. This is

194 CARE

particularly important in the case of road salt. Use BMW Motorrad metal polish for additional treatment.

Radiator

Clean the radiator regularly to prevent overheating of the engine due to inadequate cooling. For example, use a garden hose with low water pressure.



ATTENTION

Bending of radiator fins

Damage to radiator fins

- When cleaning, ensure that the cooler fins are not bent.

Rubber

Treat rubber components with water or BMW rubber protection coating agent.



ATTENTION

Use of silicone sprays for care of rubber seals

Damage to rubber seals

- Do not use silicone sprays or care products that contain silicone.

PAINT CARE

Washing the motorcycle regularly will help counteract the long-term effects of substances that damage the paint, especially if your motorcycle is ridden in areas with high air pollution or natural sources of dirt, such as tree resin or pollen. However, remove particularly aggressive materials immediately; otherwise changes in the paint or discoloration can occur. These include spilled fuel, oil, grease and brake fluid as well as bird droppings. BMW Motorrad recommends using a solvent cleaner and then applying a BMW Motorrad high gloss polish to preserve the paint.

Contamination on the paint finish is particularly easy to see after the motorcycle has been washed. Remove this type of soiling with cleaning naphtha or spirit on a clean cloth or cotton ball. BMW Motorrad recommends removing tar stains with BMW tar remover. Then add a protective wax coating to the paint at these locations.

PROTECTIVE WAX COATING

Apply a preservative when water fails to bead up on the painted surface.

BMW Motorrad recommends BMW Motorrad high gloss polish or agents that contain carnauba or synthetic wax to protect the paint finish.

STORING THE MOTORCYCLE

- Completely fill the motorcycle's fuel tank.



Fuel additives clean the fuel injection system and the combustion area. Fuel additives should be used when refueling with low-quality fuels or during longer periods of downtime. Your authorized BMW Motorrad retailer can provide you with more detailed information.

- Clean the motorcycle.
- Removing the battery (➡ 172).
- Spray brake lever and clutch lever as well as center and side stand pivots with a suitable lubricant.
- Preserve bare metal and chrome-plated parts with an acid-free grease (petroleum jelly).
- Park motorcycle in a dry room, raising it to remove

weight from both wheels (preferably using the front wheel and rear-wheel stand offered by BMW Motorrad).

PUTTING THE MOTORCYCLE INTO OPERATION

- Remove the protective wax coating.
- Clean the motorcycle.
- Installing the battery (➡ 172).
- Observe checklist (➡ 119).

TECHNICAL DATA

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TROUBLESHOOTING CHART

Engine does not start at all or is very difficult to start.

Possible cause	Remedy
Side stand is extended	Retract side stand.
Gear engaged and clutch not disengaged	Place transmission in neutral or disengage clutch.
No fuel in tank	Refueling procedure (➡ 126).
Battery drained	Charge battery.

SCREW CONNECTIONS

Front wheel	Value	Valid
Front brake caliper at wheel carrier		
M8 x 30 - 10.9	21 lb/ft (28 Nm)	
Clamping screw for quick-release axle to wheel carrier		
M8 x 30	14 lb/ft (19 Nm)	
Quick-release axle in threaded bush (wheel carrier)		
M24 x 1,5	37 lb/ft (50 Nm)	
Front-wheel cover on the wheel carrier		
M6 x 16, Renew bolt micro-encapsulated	1 lb/ft (2 Nm)	
Wheel speed sensor on the front suspension/rear brake caliper		
M5 x 10 - 10.9, Re-new bolt micro-encapsulated	3 lb/ft (4.6 Nm)	
Rear wheel	Value	Valid
Tighten rear wheel on wheel flange		
M10 x 1.25 x 40	Tightening sequence:	
	Tighten crosswise 44 lb/ft (60 Nm)	

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FUEL

Recommended fuel quality	Regular unleaded (max. 15 % ethanol, E15) min 87 AKI (min 91 ROZ/ RON) 87 AKI
Usable fuel quantity	Approx. 7 gal (Approx. 26.5 l)
Reserve fuel quantity	Approx. 1.1 gal (Approx. 4 l)
Fuel consumption	Approx. 40 mpg (Approx. 5.9 l/100 km), in accordance with WMTC
CO2 emissions	138 g/km, According to WMTC
Emission standard	Euro 4

ENGINE OIL

Engine oil, capacity	Approx. 1.2 gal (Approx. 4.5 l), with filter replacement
Specification	SAE 5W-40, API SL/ JASO MA2, Additives (for instance, molybdenum- based substances) are prohibited, because they would attack the coatings on engine components, BMW Motorrad recommends BMW Motorrad ADVANTEC Ultimate oil.

BMW recommends **ADVANTEC**
ORIGINAL BMW ENGINE OIL

ENGINE

Engine number location	Crankcase, on right-hand side over engine oil filler neck
Engine type	166EA
Engine design	Transverse in-line six cylinder four-stroke engine with four valves per cylinder and two overhead camshafts; liquid cooling, electronic fuel injection, integral six-speed cassette gearbox, dry-sump lubrication.
Displacement	1649 cc (1649 cm ³)
Cylinder bore	2.8 in (72.0 mm)
Piston stroke	2.7 in (67.5 mm)
Compression ratio	12.2:1
Nominal capacity	160 hp (118 kW), at engine speed: 7750 min ⁻¹
Torque	129 lb/ft (175 Nm), at engine speed: 5250 min ⁻¹
Maximum engine speed	max 8500 min ⁻¹
Idle speed	900 $\pm$ 50 min ⁻¹ , Engine at operating temperature

CLUTCH

Clutch design	Multi-disc oil bath
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202 TECHNICAL DATA

TRANSMISSION

Transmission design	Claw-shifted 6-speed transmission with helical-cut splines
Transmission gear ratios	1.617, Primary gear ratio 2.230, 1st gear 1.641, 2nd gear 1.319, 3rd gear 1.101, 4th gear 0.926, 5th gear 0.788, 6th gear 0.913 (drive 1.258 K), Transmission output ratio

REAR-WHEEL DRIVE

Type of final drive	Shaft drive with bevel gears
Type of rear-wheel guide	Cast-aluminum single swing arm with BMW Motorrad parallel lever
Number of teeth in bevel gears (gear ratio)	2,750 (33:12)

FRAME

Frame design	Aluminum composite bridge frame, integrated engine
Location of type plate	Top right wheel carrier
Location of the vehicle identification number	Rear main frame side section, right, over swinging arm bearing, facing in direction of travel

CHASSIS

Front wheel

Type of front suspension	BMW Motorrad Duolever
Design of the front-wheel suspension	Central suspension strut with electrically adjustable damping.
Spring travel, front	4.5 in (115 mm), on wheel

Rear wheel

Design of rear-wheel suspension	Central suspension strut pivoted via lever system. Electrically adjustable damping and spring preload/spring rate.
Spring travel, rear	5.3 in (135 mm), On wheel

BRAKES

Front wheel

Type of front wheel brake	Hydraulically operated twin-rotor disk brake with 4-piston fixed calipers and floating brake discs
Front brake pad material	Sintered metal

Rear wheel

Type of rear wheel brake	Hydraulically operated disk brake with 2-piston floating caliper and fixed brake disk
Rear brake pad material	Organic

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WHEELS AND TIRES

Recommended tire combinations	An overview of the current tire approvals is available from your authorized BMW Motorrad retailer or on the Internet at bmw-motorrad.com .
Speed category of front/rear tires	W, minimum requirement: 168 mph (270 km/h)

Front wheel

Front wheel design	Cast aluminum
Front-wheel rim size	3.50" x 17"
Front tire designation	120/70 ZR 17
Load index for front tire	At least 58
Front wheel load at unloaded vehicle weight	364 lbs (165 kg)
Permissible front wheel load	max 467 lbs (max 212 kg)
Permissible front-wheel imbalance	max 0.2 oz (max 5 g)

Rear wheel

Rear wheel design	Cast aluminum
Rear-wheel rim size	6.00" x 17"
Rear tire designation	190/55 ZR 17
Load index for rear tire	At least 75
Rear wheel load at unloaded vehicle weight	373 lbs (169 kg)
Permissible rear wheel load	max 767 lbs (max 348 kg)
Permissible rear-wheel imbalance	max 1.6 oz (max 45 g)

Tire inflation pressure

Front tire pressure	42.1 psi (2.9 bar), With tire cold
Rear tire pressure	42.1 psi (2.9 bar), With tire cold

ELECTRICAL SYSTEM

Electrical rating of onboard sockets	max 10 A, all slots in total
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Battery

Battery design	Absorbent Glass Mat
Battery voltage	12 V
Battery capacity	16 Ah

Spark plugs

Spark plugs, manufacturer and designation	NGK LMAR8AI-8
---	---------------

Bulbs

Bulb for high-beam headlight	H7 12 V 55 W
Bulbs for low-beam headlight	Xenon D1S 12 V 35 W
Bulb for parking light	LED ring light
Bulb for taillight/brake light	LED
Bulbs for flashing turn indicators	LED
Bulbs for flashing turn indicators, rear	LED

Fuses

Fuse carrier 1	40 A, Electronic engine management
Fuse carrier 2	7.5 A, Slot above: audio system 7.5 A, Slot below: anti-theft alarm system, central locking system

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ANTI-THEFT ALARM SYSTEM

Anti-theft alarm

Activation time	Approx. 30 s
Alarm duration	Approx. 26 s
Activation time between two alarms	15 s
Battery type	CR 1632 A

Remote control

Range of remote control	Approx. 32.8 ft (Approx. 10 m)
Signal frequency	20 kHz, wideband
Transmission frequency	433 MHz
Battery type and battery voltage (for remote key)	CR 2032 3 V

DIMENSIONS

Motorcycle length	91.5 in (2324 mm), over license-plate carrier
Motorcycle height	56.3...61.8 in (1430...1570 mm), over windshield, at DIN unloaded vehicle weight
Motorcycle width	39.4 in (1000 mm), over mirrors
Front-seat height	31.9...32.7 in (810...830 mm), without rider at DIN unloaded vehicle weight
- with rider's seat, low ^{OE}	30.7...31.5 in (780...800 mm), without rider at DIN unloaded vehicle weight

Rider's inside-leg arc, heel to heel	72...73.6 in (1830...1870 mm), without rider, at DIN unladen weight
- with rider's seat, low ^{OE}	69.9...71.3 in (1775...1810 mm), without rider, at DIN unladen weight

WEIGHTS

Unloaded vehicle weight	736 lbs (334 kg), DIN unladen weight with cases, ready for road, 90 % full tank, without OE
Gross vehicle weight	1 190 lbs (540 kg)
Maximum payload	454 lbs (206 kg)
Payload per case	max 22 lbs (max 10 kg)
Payload of Topcase	max 22 lbs (max 10 kg)

PERFORMANCE DATA

Maximum speed	>124 mph (>200 km/h)
Maximum speed when riding with a loaded case	max 112 mph (max 180 km/h)
Maximum speed when riding with a loaded topcase	max 112 mph (max 180 km/h)

RADIO

Reception ranges	FM, AM and WB
Wavebands	
FM	87.7...107.9 MHz
AM	530...1710 MHz
Station memory	Twelve system memory slots and twelve personal memory slots for each waveband

208 TECHNICAL DATA

EXTERNAL AUDIO DEVICES

Connector	0.14 in (3.5 mm), Jack plug
Input signal range	0...1 V, effective

SPEAKER

Impedance	4 Ω
Output power	15 W, RMS, per speaker unit
Frequency range	2.402...2.480 GHz

SERVICE

13

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REPORTING SAFETY DEFECTS

If you think that your motorcycle has a fault which may cause an accident, injury or death, you must inform the NHTSA (National Highway Traffic Safety Administration) immediately and BMW of North America, LLC.

If the NHTSA receives other similar complaints, it may open an investigation. If it finds that a safety defect exists in a group of vehicles, the NHTSA may order the manufacturer to perform a recall and remedy campaign. However, the NHTSA cannot become involved in individual problems between you, your authorized BMW Motorrad retailer, or BMW of North America, LLC. You can contact the NHTSA by calling the Vehicle Safety Hotline on 1-888-327-4236 (Teletypewriter TTY for the hearing impaired: 1-800-424-9153) for free, by visiting the website at [http:// www.safercar.gov](http://www.safercar.gov) or by writing to Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. Further information on vehicle safety is available at <http:// www.safercar.gov>. Canadian customers who wish to report a safetyrelated defect to Transport Canada, Defect Investigations and Recalls, may call the toll-free hotline 1-800-333-0510. You can also obtain other information about motor vehicle safety from <http:// www.tc.gc.ca/roadsafety>.

BMW MOTORRAD SERVICE

With its worldwide retailer network, BMW Motorrad can attend to you and your motorcycle in over 100 countries around the globe. Authorized BMW Motorrad retailers have the technical information and expertise needed to reliably conduct all preventive maintenance and repair tasks on your BMW.

You will find the nearest authorized BMW Motorrad retailer to you at our website:
bmw-motorrad.com



WARNING

Improperly performed maintenance and repair work

Accident hazard caused by subsequent damage

- BMW Motorrad recommends having corresponding work on the motorcycle carried out by a specialized workshop, preferably by an authorized BMW Motorrad retailer.

To ensure that your BMW consistently remains in optimal condition BMW Motorrad urges you to observe the recommended service intervals.

Have all maintenance and repair tasks confirmed in the Service chapter in this manual. Documented proof of scheduled preventive maintenance is essential for generous treatment of claims submitted after the warranty period has expired (goodwill).

You can obtain information on the contents of the BMW Services from your BMW Motorrad retailer.

BMW MOTORRAD ELECTRONIC SERVICE HISTORY (ESH)

Entries

Maintenance work that has been performed is recorded in the diagnostics and information system. Like a Service Booklet, these entries provide proof of regular maintenance.

If an entry is made in the vehicle's eSH, service-related data is stored on the central IT systems of BMW AG in Munich, Germany.

When there is a change in vehicle owner, the data entered in the eSH can also be viewed by the new vehicle owner. A BMW Motorrad retailer or specialist workshop can view the

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data entered in the electronic Service Manual.

Objection

At the BMW Motorrad retailer or specialist workshop, the vehicle owner can object to the entry of data in the electronic Service Manual with the related storage of data in the vehicle and the transfer of data to the vehicle manufacturer during his time as the vehicle owner. In this case, no entry is made in the vehicle's electronic Service Manual.

BMW MOTORRAD MOBILITY SERVICES

The BMW Motorrad Mobility Services furnish you and your new BMW motorcycle with extra security by offering a wide array of assistance services in the event of a breakdown (BMW Roadside Assistance, breakdown assistance, vehicle recovery and retrieval, etc.). Contact your authorized BMW Motorrad retailer for additional information on available mobility-maintenance services.

MAINTENANCE WORK

BMW Pre-Delivery Check

The BMW pre-delivery check is carried out by your authorized BMW Motorrad retailer before it turns over the vehicle to you.

BMW Running-in Check

The BMW running-in check must be carried out between 300 mls (500 km) and 750 mls (1200 km).

BMW Service

BMW Service is carried out once a year. The scope of the services performed may be dependent on the motorcycle owner and the mileage driven. Your BMW Motorrad retailer confirms that the service has been performed and enters the date for the next service. For riders who drive long distances annually, it may be necessary to come in for service before the entered date. In this case a corresponding maximum odometer reading will also be entered in the confirmation of service. If this odometer reading is reached before the next service date, service must be performed sooner.

The service information on the multifunction display reminds you of the next service date, which is approx. one month or 621 miles (1000 km) before reaching the input values.

More information on the topic of service is available at:

bmw-motorrad.com/service

The required scope of maintenance work for your motorcycle can be found in the following maintenance schedule:

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MAINTENANCE SCHEDULE

	500 -1200 km 300 - 750 mls	10 000 km 6 000 mls	20 000 km 12 000 mls	30 000 km 18 000 mls	40 000 km 24 000 mls	50 000 km 30 000 mls	60 000 km 36 000 mls	70 000 km 42 000 mls	80 000 km 48 000 mls	90 000 km 54 000 mls	100 000 km 60 000 mls	12 months	24 months
①	X												
②												X	
③		X	X	X	X	X	X	X	X	X	X	X ^a	
④			X		X		X		X		X		
⑤				X			X			X			
⑥				X			X			X			
⑦													X
⑧			X		X		X		X		X		X ^b
⑨												X ^c	X ^c

- 1 BMW Running-in check (including oil change)
- 2 BMW Service Standard Scope
- 3 Engine oil change with filter
- 4 Replace air cleaner insert
- 5 Check valve clearance
- 6 Replace all spark plugs
- 7 Check bearing for deflection at rear wheel swinging arm
- 8 Oil change in the rear bevel gears
- 9 Change brake fluid in entire system

^a annually or every 6000 miles (10000 km) (whichever comes first)

^b annually or every 12000 miles (20000 km) (whichever comes first)

^c for the first time after one year, then every two years

MAINTENANCE CONFIRMATIONS

BMW Service standard scope

The repair procedures belonging to the BMW Service standard package are listed below. The actual maintenance work applicable for your vehicle may differ.

- Performing the vehicle test using the BMW Motorrad diagnostic system
- Draining the oil condensate hose
- Visual inspection of the brake lines, brake hoses, and connections
- Checking the front brake pads and brake discs for wear
- Checking the front wheel brake fluid level
- Checking the rear brake pads and brake disc for wear
- Checking the rear wheel brake fluid level
- Visual inspection of the clutch system
- Checking coolant level
- Checking the tire pressure and tread depth
- Check side stand for ease of movement
- Checking center stand for ease of movement
- Checking the lighting and signal system
- Functional check for engine starting suppression
- Final inspection and road safety check
- Set the service date and remaining distance using the BMW Motorrad diagnostic system
- Checking charging state of battery
- Confirm the BMW service in the vehicle literature

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BMW pre-delivery check
performed

on_____

Stamp, signature

BMW Running-in Check
performed

on_____

Odometer reading_____

Next service

latest

on_____

or, if reached earlier

Odometer reading_____

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

222 SERVICE

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

BMW Service

performed

on _____

Odometer reading _____

Next service

latest

on _____

or, if reached earlier

Odometer reading _____

Work performed

	Yes	No
BMW Service	☐	☐
Engine oil change with filter	☐	☐
Replacing air cleaner element	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Oil change in rear bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Information

Stamp, signature

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[illegible]

CERTIFICATE FOR ELECTRONIC IMMOBILIZER	235
CERTIFICATE FOR REMOTE CONTROL	237
CERTIFICATE FOR KEYLESS RIDE	241
CERTIFICATE FOR TIRE PRESSURE CONTROL	245
DECLARATION OF CONFORMITY FOR ANTI-THEFT ALARM	246
CERTIFICATE FOR AUDIO SYSTEM	251

FCC Approval

Ring aerial in the ignition switch



To verify the authorization of the ignition key, the electronic immobilizer exchanges information with the ignition key via the ring aerial.

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.



Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. ◀

Approbation de la FCC

Antenne annulaire présente dans le commutateur d'allumage



Pour vérifier l'autorisation de la clé de contact, le système d'immobilisation électronique échange des informations avec la clé de contact via l'antenne annulaire.

Le présent dispositif est conforme à la partie 15 des règles de la FCC. Son utilisation est soumise aux deux conditions suivantes :

- (1) Le dispositif ne doit pas produire d'interférences nuisibles, et
- (2) le dispositif doit pouvoir accepter toutes les interférences extérieures, y compris celles qui pourraient provoquer une activation inopportune.



Toute modification qui n'aurait pas été approuvée expressément par l'organisme responsable de l'homologation peut annuler l'autorisation accordée à l'utilisateur pour utiliser le dispositif. ◀

Certifications

Remote Control for central locking system



Česky

Meta System S.p.A. tímto prohlašuje, že tento PF240009 je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Dansk

Undertegnede Meta System S.p.A. erklærer herved, at følgende udstyr PF240009 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Deutsch

Hiermit erklärt Meta System S.p.A., dass sich das Gerät PF240009 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Eesti

Käesolevaga kinnitab Meta System S.p.A. seadme PF240009 vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

English

Hereby, Meta System S.p.A., declares that this PF240009 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Español

Por medio de la presente Meta System S.p.A. declara que el PF240009 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

Ελληνική

ΜΕ ΣΗΝ ΠΑΡΟΥΣΑ Meta System S.p.A. ΔΗΛΩΝΕΙ ΟΣΙ PF240009 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

Français

Par la présente Meta System S.p.A. déclare que l'appareil PF240009 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Italiano

Con la presente Meta System S.p.A. dichiara che questo PF240009 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski

Ar šo Meta System S.p.A. deklarē, ka PF240009 atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lietuvių

Šiuo Meta System S.p.A. deklaruoja, kad šis PF240009 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

Nederlands

Hierbij verklaart Meta System S.p.A. dat het toestel PF240009 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Malti

Hawnhekk, Meta System S.p.A., jiddikjara li dan PF240009 jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.

Magyar

Alulírott, Meta System S.p.A. nyilatkozom, hogy a PF240009 megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

Polski

Niniejszym Meta System S.p.A. oświadcza, że PF240009 jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

Português

Meta System S.p.A. declara que este PF240009 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Slovensko

Meta System S.p.A. izjavlja, da je ta PF240009 v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

Slovensky

Meta System S.p.A. týmto vyhlasuje, že PF240009 spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Suomi

Meta System S.p.A. vakuuttaa täten että PF240009 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Svenska

Härmed intygar Meta System S.p.A. att denna PF240009 står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Íslenska

Hér með lýsir Meta System S.p.A. yfir því að PF240009 er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.

Norsk

Meta System S.p.A. erklærer herved at utstyret PF240009 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

USA, Canada

Product name: TX BMW
MR FCC ID: P3O98400
IC:4429A - TXBMWMR

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.



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

Declaration Of Conformity

R&TTE Declaration Of Conformity (DoC)

CE 0470

We: **Meta System S.p.A.**

with the address: Via Majakovskij 10 b/c/
d/e 42124 Reggio
Emilia -Italy

Declare

Under own responsibility that the product:

TX BMW MR

To which this declaration relates is in conformity with the essential requirements and other relevant requirements of the R&TTE Directive (1999/5/EC).

This product is in conformity with the following standards:

Health & Safety (art.3.1)
EMC (art.3.2) Spectrum
Human exposure

EN 60950-1
ETSI EN 301 489-1/-3
ETSI EN 300 220 - 2
EN 62311

According to Directive 1999/5/

CE Reggio Emilia , 14/07/2010

Technical
Director Lasagni
Cesare



Certifications

BMW Keyless Ride ID Device



USA, Canada:

Product name: BMW Keyless Ride ID
Device FCC ID: YGOHUF5750
IC: 4008C-HUF5750



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

Canada:

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.

USA:

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.

Argentina:

CNC COMISIÓN NACIONAL
DE COMUNICACIONES

H-17115

Declaration Of Conformity

We declare under our responsibility that the product

BMW Keyless Ride ID Device (Model: HUF5750)

complies with the appropriate essential requirements of the article 3 of the R&TIE and the other relevant provisions, when used for its intended purpose. Applied Standards:

1. Health and safety requirements contained in article 3 (1) a)
 - EN 60950-1:2006+A11:2009+A1:2010+A12:2011; Information technology equipment-Safety
2. Protection requirements with respect to electromagnetic compatibility article 3 (1) b)
 - EN 301 489-1 (V1 .9.2, 09/2011), Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
 - EN 301 489-3 (V1.4.1, 08/2002) Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for short range devices (SRD) operating on frequencies between 9 kHz and 40 GHz
3. Means of the efficient use of the radio frequency spectrum article 3 (2)
 - EN 300 220-1 & -2 (V2.4.1, 05/2012), electromagnetic compatibility and radio spectrum matters (ERM); Short range devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TIE directive

The product is labeled with the CE marking:



Velbert, October 15th, 2013

A handwritten signature in black ink, appearing to read 'Ben A. Müller', is written over a horizontal line.

Benjamin A. Müller

Product Development Systems
Car Access and Immobilization -
Electronics Huf Hülsbeck & Fürst
GmbH & Co. KG
Steege Straße 17, D-42551
Velbert

Certification Tire Pressure Control (TPC)

FCC ID: MRXBC54MA4
IC: 2546A-BC54MA4

FCC ID: MRXBC5A4
IC: 2546A-BC5A4

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s).

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.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Declaration of Conformity

Radio equipment anti-theft alarm (DWA)

Simplified EU Declaration of Conformity acc. Radio Equipment Directive 2014/53/EU after 12.06.2016 and during transition period



Technical information

Frequency Band:
433.05-434.79 MHz
Output Power: 10 mW e.r.p.

Manufacturer and Address

Manufacturer: Meta System S.p.A.
Address: Via Galimberti 5 42124
Reggio Emilia - Italy

Austria

Hiermit erklärt Meta System S.p.A., dass der Funkanlagentyp TXBMWMR der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: <https://docs.metasystem.it/>

Belgium

Le soussigné, Meta System S.p.A., déclare que l'équipement radioélectrique du type TXBMWMR est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: <https://docs.metasystem.it/>

Bulgaria

С настоящото Meta System S.p.A. декларира, че този тип радиосъоръжение TXBMWMR е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: <https://docs.metasystem.it/>

Cyprus

Με την παρούσα ο/η Meta System S.p.A., δηλώνει ότι ο ραδιοεξοπλισμός TXBMWMR πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: <https://docs.metasystem.it/>

Czech Republic

Tímto Meta System S.p.A. prohlašuje, že typ rádiového zařízení TXBMWMR je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: <https://docs.metasystem.it/>

Germany

Hiermit erklärt Meta System S.p.A., dass der Funkanlagentyp TXBMWMR der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: <https://docs.metasystem.it/>

Denmark

Hermed erklærer Meta System S.p.A., at radioudstyrstypen TXBMWMR er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: <https://docs.metasystem.it/>

Estonia

Käesolevaga deklareerib Meta System S.p.A., et käesolev raadioseadme tüüp TXBMWMR vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: <https://docs.metasystem.it/>

Spain

Por la presente, Meta System S.p.A. declara que el tipo de equipo radioeléctrico TXBMWMR es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: <https://docs.metasystem.it/>

Finland

Meta System S.p.A. vakuuttaa, että radiolaitetyyppi TXBMWMR on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: <https://docs.metasystem.it/>

France

Le soussigné, Meta System S.p.A., déclare que l'équipement radioélectrique du type TXBMWMMR est conforme à la directive 2014/53/UE

Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante : <https://docs.metasystem.it/>

United Kingdom

Hereby, Meta System S.p.A. declares that the radio equipment type TXBMWMMR is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://docs.metasystem.it/>

Greece

Με την παρούσα ο/η Meta System S.p.A., δηλώνει ότι ο ραδιοεξοπλισμός TXBMWMMR πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: <https://docs.metasystem.it/>

Croatia

Meta System S.p.A. ovime izjavljuje da je radijska oprema tipa TXBMWMMR u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: <https://docs.metasystem.it/>

Hungary

Meta System S.p.A. igazolja, hogy a TXBMWMMR típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: <https://docs.metasystem.it/>

Ireland

Hereby, Meta System S.p.A. declares that the radio equipment type TXBMWMMR is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://docs.metasystem.it/>

Italy

Il fabbricante, Meta System S.p.A., dichiara che il tipo di apparecchiatura radio TXBMWMMR è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: <https://docs.metasystem.it/>

Lithuania

Aš, Meta System S.p.A., patvirtinu, kad radijo įrenginių tipas TXBMWMR atitinka Direktyvą 2014/53/ES.

Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: <https://docs.metasystem.it/>

Luxembourg

Le soussigné, Meta System S.p.A., déclare que l'équipement radioélectrique du type TXBMWMR est conforme à la directive 2014/53/UE.

Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: <https://docs.metasystem.it/>

Latvia

Ar šo Meta System S.p.A. deklarē, ka radioiekārta TXBMWMR atbilst Direktīvai 2014/53/ES.

Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: <https://docs.metasystem.it/>

Malta

B'dan, Meta System S.p.A., niddikjara li dan it-tip ta' tagħmir tar-radju TXBMWMR huwa konformi mad-Direttiva 2014/53/UE.

It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: <https://docs.metasystem.it/>

Netherlands

Hierbij verklaar ik, Meta System S.p.A., dat het type radioapparatuur TXBMWMR conform is met Richtlijn 2014/53/EU.

De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: <https://docs.metasystem.it/>

Poland

Meta System S.p.A. niniejszym oświadcza, że typ urządzenia radiowego TXBMWMR jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: <https://docs.metasystem.it/>

Portugal

O(a) abaixo assinado(a) Meta System S.p.A. declara que o presente tipo de equipamento de rádio TXBMWMR está em conformidade com a Diretiva 2014/53/UE.

O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: <https://docs.metasystem.it/>

Romania

Prin prezenta, Meta System S.p.A. declară că tipul de echipamente radio TXBMWMR este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: <https://docs.metasystem.it/>

Sweden

Härmed försäkrar Meta System S.p.A. att denna typ av radioutrustning TXBMWMR överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: <https://docs.metasystem.it/>

Slovenia

Meta System S.p.A. potrjuje, da je tip radijske opreme TXBMWMR skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: <https://docs.metasystem.it/>

Slovakia

Meta System S.p.A. týmto vyhlasuje, že rádiové zariadenie typu TXBMWMR je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: <https://docs.metasystem.it/>

Declaration of Conformity

Radio equipment audio system

Product name: 9443643

Model name: K48/K52/K61

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.

CAUTION

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

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The descriptions and illustrations in this manual may vary from your own motorcycle's actual equipment, depending upon its equipment level and accessories as well as your specific national version. No claims stemming from these differences can be recognized. 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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WARNING

Harmful substances

Operating, servicing and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates and lead, which are known to the State of California to be carcinogenic or detrimental to childbirth or reproduction.

- To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.
- For more information visit: www.P65Warnings.ca.gov/passenger-vehicle

Important data for refueling:

Fuel

Recommended fuel quality	Regular unleaded (max. 15 % ethanol, E15) min 87 AKI (min 91 ROZ/RON) 87 AKI
--------------------------	--

Usable fuel quantity	Approx. 7 gal (Approx. 26.5 l)
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Reserve fuel quantity	Approx. 1.1 gal (Approx. 4 l)
-----------------------	-------------------------------

Tire inflation pressure

Front tire pressure	42.1 psi (2.9 bar), With tire cold
---------------------	------------------------------------

Rear tire pressure	42.1 psi (2.9 bar), With tire cold
--------------------	------------------------------------

You can find further information on all aspects of your vehicle at: bmw-motorrad.com

BMW recommends **ADVANTEC**
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Huomioi seuraavat seikat käyttöohjeen lisäksi.

VAROITUS

Auton avaimessa on nappiparisto. Paristot tai nappiparistot voivat joutua nieluun ja johtaa kahden tunnin sisällä vakaviin tai hengenvaarallisiin vammoihin, esim. sisäisiin palovammoihin tai syöpymävammoihin. Tämä aiheuttaa loukkaantumisen ja hengenvaaran. Säilytä auton avainta ja paristoja lasten ulottumattomissa. Jos epäilet, että paristo tai nappiparisto on nieltä tai se on joutunut kehon sisälle, käänny välittömästi lääkärin puoleen.

HUOMAUTUS

Auton avaimen asetetut epäsoivat paristot voivat vaurioittaa auton avainta. Tämä aiheuttaa aineellisten vahinkojen vaaran. Vaihda tyhjän pariston tilalle vain jännitearvoltaan, kooltaan ja ominaisuuksiltaan vastaava paristo.

Oltre al libretto Uso e manutenzione, osservare quanto segue.

AVVERTENZA

La chiave della vettura contiene come batteria una batteria a bottone. Le batterie o le batterie a bottone possono essere ingerite ed entro due ore causare lesioni gravi o mortali, ad es. dovute a ustioni o corrosioni interne. Sussiste il pericolo di lesioni o conseguenze letali. Tenere la chiave della vettura e le batterie fuori dalla portata dei bambini. Nel dubbio che una batteria o una batteria a bottone sia stata ingerita o si trovi in una parte del corpo, chiedere immediatamente aiuto medico.

AVVISO

Batterie non adatte nella chiave della vettura possono danneggiare la chiave della vettura stessa. Sussiste il pericolo di danni materiali. Sostituire una batteria scarica soltanto con una batteria con la stessa tensione, la stessa dimensione e la stessa specifica.

Vær også oppmerksom på bruksanvisningen.

ADVARSEL

Batteriet i bilnøkkelen er en knappecelle. Batterier eller knappceller kan svelges og forårsake alvorlig personskade eller død innen to timer, f.eks. som følge av indre forbrenninger eller etseskader. Fare for personskader eller livsfare. Oppbevar bilnøkklene og batteriene utlengelig for barn. Hvis du mistenker at et batteri eller en knappecelle er svelget eller befinner seg i noen del av kroppen, må du ringe lege straks.

MERKNAD

Feil batterier i bilnøkkelen kan skade bilnøkkelen. Det er fare for materielle skader. Bytt ut utladet batteri kun med et batteri med samme spenning, størrelse og spesifikasjon.

Opórcz instrukcji obsługi przestrzegać następujących zaleceń.

OSTRZEŻENIE

W kluczu do pojazdu znajduje się bateria guzikowa. Baterie zwykłe i guzikowe mogą zostać połknięte i w przeciągu dwóch godzin doprowadzić do ciężkich lub śmiertelnych obrażeń, np. w wyniku wewnętrznych oparzeń lub poparzeń chemicznych. Istnieje niebezpieczeństwo odniesienia obrażeń oraz zagrożenie dla życia. Klucz do pojazdu i baterie trzymać poza zasięgiem dzieci. W przypadku podejrzenia, że bateria zwykła lub guzikowa została połknięta lub znajduje się w innej części ciała, bezzwłocznie udać się po pomoc medyczną.

WSKAZÓWKA

Niewłaściwa bateria może doprowadzić do uszkodzenia klucza do pojazdu. Istnieje niebezpieczeństwo strat materialnych. Rozładowaną baterię należy wymienić na baterię o takim samym napięciu, o tej samej wielkości i z taką samą specyfikacją.

Naast de handleiding ook het volgende in acht nemen.

WAARSCHUWING

De voertuig sleutel heeft een knoopcel als accu. Accu's of knoopcellen kunnen worden ingeslikt en binnen twee uur tot ernstige of dodelijke letsels leiden, bijv. door verbrandingen. Er bestaat kans op letsel of levensgevaar. Voertuig sleutels en accu's buiten het bereik van kinderen bewaren. Onmiddellijk medische hulp inroepen bij een vermoeden dat een accu of knoopcel werd ingeslikt of zich in een lichaamsdeel bevindt.

OPMERKING

Ongeschikte accu's in de voertuig sleutel kunnen de voertuig sleutel beschadigen. Er bestaat gevaar voor schade. De ontladen accu alleen door een accu met dezelfde spanning, dezelfde grootte en dezelfde specificaties vervangen.

Suplimentar față de manualul de utilizare, respectați următoarele.

AVERTIZARE

Cheia autovehiculului conține o baterie sub forma unui element tip buton. Bateriile sau elementele tip buton pot fi înghițite și pot produce vătămări grave sau mortale în interval de două ore, de ex. prin provocarea de arsuri interne sau arsuri caustice. Există pericol de vătămare sau chiar pericol de moarte. Păstrați cheia autovehiculului și bateriile în locuri inaccesibile copiilor. Dacă aveți suspiciunea că o baterie sau un element tip buton a fost înghițit sau se află într-o parte a corpului, apelați imediat medicul.

INDICAȚIE

Dacă în cheia autovehiculului se află baterii inadecvate, cheia autovehiculului poate suferi deteriorări. Există pericolul daunelor materiale. Înlocuiți bateria descărcată numai cu o baterie de aceeași tensiune, aceeași mărime și specificație identică.

Επιπρόσθετα στο εγχειρίδιο οδηγιών προσέξτε τα παρακάτω.

ΠΡΟΕΙΔΟΠΟΙΗΣΗ

To κλειδί οχήματος περιέχει μια κομψόδοχη μπαταρία. Οι μπαταρίες ή οι κομψόδοχες μπαταρίες υπάρχουν κινδύνος να καταποθούν και εντός δύο ωρών να οδηγήσουν σε σοβαρούς ή θανάσιμους τραυματισμούς, π.χ. εξαιτίας εσωτερικών εγκαυμάτων ή χημικών εγκαυμάτων. Υπάρχει κίνδυνος τραυματισμού ή θανάτου. Φυλάξτε το κλειδί οχήματος και τις μπαταρίες μακριά από παιδιά. Αν υπάρχει υποψία κατάποσης μιας κομψόδοχης μπαταρίας ή μιας μπαταρίας ή ότι αυτή βρίσκεται μέσα σε κάποιο μέρος του σώματος, αναζητήστε άμεσα ιατρική βοήθεια.

Υπόδειξη

Ακατάλληλες μπαταρίες μέσα στο κλειδί οχήματος μπορούν να προκαλέσουν ζημιά στο κλειδί οχήματος. Υπάρχει κίνδυνος υλικών ζημιών. Αντικαθιστάτε την αποφορτισμένη μπαταρία μόνο με μια μπαταρία ίδιας τάσης, ίδιου μεγέθους και ίδιων προδιαγραφών.

Kromě návodu k obsluze věnujte pozornost následujícím.

VAROVÁNÍ

Klíč vozidla obsahuje knoflíkový článek jako baterii. Baterie nebo knoflíkové články lze spolknout a během dvou hodin může dojít k těžkému nebo smrtelnému zranění, např. v důsledku vnitřních popálenin nebo poleptání. Hrozí nebezpečí poranění nebo smrtelného úrazu. Klíč vozidla a baterie uchovávejte mimo dosah dětí. Při podezření na spolknutí baterie nebo knoflíkového článku nebo na jejich přítomnost v těle ihned zavolejte lékařskou pomoc.

UPOZORNĚNÍ

Nevhodné baterie v klíči vozidla mohou klíč vozidla poškodit. Hrozí nebezpečí hmotných škod. Vybítou baterii vyměňte pouze za baterii se stejným napětím, stejnými rozměry a stejnou specifikací.

Para além do manual do condutor, respeitar o seguinte.

ATENÇÃO

Como bateria, a chave do veículo contém uma pilha tipo botão. As baterias ou as pilhas tipo botão podem ser engolidas e, dentro de duas horas, causar ferimentos graves ou até a morte devido a, por ex., queimaduras químicas internas. Existe risco de lesão ou risco de vida. Guardar a chave do veículo fora do alcance das crianças. Se suspeitar que uma bateria ou pilha tipo botão tenha sido engolida ou se encontra numa parte do corpo, entrar imediatamente em contacto com a assistência médica.

AVISO

Baterias inadequadas na chave do veículo podem danificar a chave do veículo. Existe perigo de danos materiais. Substituir a bateria descarregada por uma bateria com a mesma tensão, do mesmo tamanho e da mesma especificação.

Beakta även följande om instruktionsboken.

VARNING

Fordonsnyckeln innehåller en knappcell som batteri. Batterier eller knappceller kan sväljas och leda till allvarliga eller dödliga skador inom två timmar, t.ex. genom inre brännskador eller frätskador. Risk för personskador eller livsfara. Förvara fordensnyckeln och batterierna utom räckhåll för barn. Om du misstänker att någon person har svält ett batteri eller en knappcell eller att den finns i en kroppsdel måste du omedelbart söka medicinsk hjälp.

ANVISNING

Olämpliga batterier i fordensnyckeln kan skada fordensnyckeln. Risk för materiella skador. Ett urladdat batteri får bara bytas ut mot ett batteri med samma spänning, storlek och specifikation.

A kezelési útmutató mellett vegye figyelembe a következőket.

FIGYELMEZTETÉS

A járműkulcs egy gombalemmel működik. Az elemek, illetve a gombalemegek lenyelhetők, és két órán belül súlyos vagy halálos sérüléseket okozhatnak, például belső gyulladások vagy felmaródások okozásával. Sérülésveszély vagy életveszély áll fenn. A járműkulcsot és az elemeket gyermekektől távol kell tartani. Egy elem, illetve egy gombaleme lenyelésének gyanúja esetén, vagy ha az egy testrészbbe kerülne, azonnal kérjen orvosi segítséget.

MEGJEGYZÉS

Csak megfelelő gombalemekkel használja a járműkulcsot, különben a járműkulcs károsodhat. Anyagi kár veszélye áll fenn. A lemerült elemet csak azonos feszültségű, azonos méretű és azonos jellemzőkkel rendelkező elemmel helyettesítse.

Vær opmærksom på følgende ud over instruktionsbogen.

ADVARSEL

Bilnøglen inderholder et knapbatteri som batteri. Batterier eller knapbatterier kan sluges og i løbet af to timer føre til alvorlige eller dødelige kvæstelser, f.eks. indre forbrændinger eller ætsninger. Der er risiko for kvæstelse eller livsfare. Bilnøgler og batterier skal opbevares utilgængeligt for børn. Hvis der er mistanke om, at et batteri eller et knapbatteri er blevet slugt eller befinder sig i en kropsdel, skal lægen kontaktes omgående.

BEMÆRK

Uegnede batterier i bilnøglen kan beskadige bilnøglen. Der er risiko for materiel skade. Det afladede batteri må kun udskiftes med et batteri med samme spænding, størrelse og specifikation.

Poleg navodil za uporabo upoštevajte še naslednje.

OPOZORILO

Avtomobilski ključ ima gumbasto celico kot baterijo. V primeru, če pride do zaužitja baterije ali gumbaste celice, lahko to v dveh urah povzroči resne telesne poškodbe ali smrt, npr. zaradi notranjih kemičnih opeklin. Obstaja nevarnost telesnih poškodb ali smrtna nevarnost. Avtomobilski ključ in baterije hranite zunaj dosega otrok. Če obstaja sum, da je prišlo do zaužitja baterije ali gumbaste celice ali da je v katerem koli delu telesa, takoj pokličite zdravniško pomoč.

OPOMBA

Neprimerno baterije v avtomobilskem ključu ga lahko poškodujejo. Obstaja nevarnost materialne škode. Izpraznjeno baterijo lahko zamenjate samo z baterijo enake napetosti, enake velikosti in istih tehničnih specifikacij.

Okrem návodu na obsluhu rešpektujte aj nasledujúce pokyny.

VAROVANIE

Kľúč od vozidla obsahuje gombiková batériu. Hrozi prehltnutie batérie alebo gombikových batérií a v priebehu dvoch hodín vznik vážnych alebo smrteľných poranení, napr. vnútorné popáleniny alebo poleptania. Hrozi nebezpečenstvo zranenia alebo ohrozenie života. Kľúč od vozidla a batérie uchovávajte mimo dosahu detí. Pri podozrení na prehltnutie batérie alebo gombikovej batérie alebo na ich prítomnosť v niektorej časti tela okamžite vyhľadajte lekársku pomoc.

UPOZORNENIE

Nevhodné batérie v kľúči od vozidla ho môžu poškodiť. Hrozi nebezpečenstvo večných škôd. Vybíť batériu nahradte batériou s rovnakým napätím, rovnakou veľkosťou a rovnakou špecifikáciou.

Please note the following in addition to the information provided in the Owner's Handbook.

WARNING

The battery inside the vehicle key is a button cell. Batteries or button cells can be swallowed, causing serious or even fatal injuries within two hours, e.g. due to internal burns or cauterisations. There is a danger of injury or danger to life. Keep vehicle keys and batteries out of the reach of children. Seek medical assistance immediately if you suspect that a battery or button cell has been swallowed or has got into a part of the body.

NOTE

Using unsuitable batteries in a vehicle key can damage the vehicle key. There is a risk of material damage. Discharged batteries should only ever be replaced with batteries of the same voltage, same size and same specification.

Respecter les consignes suivantes en plus de la notice d'utilisation

AVERTISSEMENT

La clé du véhicule contient une pile bouton. Les batteries ou piles boutons peuvent être avalées et provoquer des blessures graves voire mortelles dans les deux heures, par exemple par des brûlures internes ou des brûlures chimiques. Risque de blessures ou danger de mort. Tenir la clé du véhicule et les batteries hors de la portée des enfants. En cas de suspicion d'ingestion d'une batterie ou d'une pile bouton ou d'introduction dans une partie du corps, contacter immédiatement un médecin.

REMARQUE

L'insertion de batteries non conformes dans la clé du véhicule peut endommager cette dernière. Risque de dommages matériels. Remplacer la batterie déchargée uniquement par une batterie de tension, de taille et de spécification identiques.

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Zusätzlich zur Betriebsanleitung folgendes beachten.

WARNUNG

Der Fahrzeugschlüssel enthält als Batterie eine Knopfzelle. Batterien oder Knopfzellen können verschluckt werden und innerhalb von zwei Stunden zu schweren oder tödlichen Verletzungen führen, z. B. durch innere Verbrennungen oder Verätzungen. Es besteht Verletzungsgefahr oder Lebensgefahr. Fahrzeugschlüssel und Batterien außerhalb der Reichweite von Kindern aufbewahren. Bei Verdacht, dass eine Batterie oder Knopfzelle verschluckt wurde oder sich in einem Körperteil befindet, sofort medizinische Hilfe rufen.

HINWEIS

Ungeeignete Batterien im Fahrzeugschlüssel können den Fahrzeugschlüssel beschädigen. Es besteht die Gefahr von Sachschäden. Die entladene Batterie nur durch eine Batterie mit gleicher Spannung, gleicher Größe und gleicher Spezifikation ersetzen.

Observar lo siguiente adicionalmente al manual de instrucciones.

AVISO

La llave del vehículo contiene una pila de botón a modo de batería. Las pilas o las pilas de botón pueden ser ingeridas y, en el plazo de dos horas, causar lesiones graves o mortales como, p. ej., por quemaduras o abrasiones internas. Existe peligro de lesionarse o peligro de muerte. Mantener la llave del vehículo y las pilas fuera del alcance de los niños. Si sospecha que se ha ingerido una pila o una pila de botón, o que se encuentra en una parte del cuerpo, busque asistencia médica de inmediato.

INDICACIÓN

Las pilas no adecuadas para la llave del vehículo pueden dañar la misma. Existe peligro de daños materiales. La pila descargada únicamente debe ser sustituida por una pila con la misma tensión, el mismo tamaño y las mismas especificaciones.