



**BMW
MOTORRAD**

RIDER'S MANUAL (US MODEL)

K 1600 GTL



MAKE LIFE A RIDE

Vehicle data

Model

Vehicle identification number

Color number

First registration

License plate

Retailer data

Contact in Service

Ms./Mr.

Phone number

Retailer's address/Phone (company stamp)

YOUR BMW.

We are pleased that you have chosen a BMW Motorrad vehicle and welcome you to the family of BMW riders. 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 riding with your BMW

BMW Motorrad.

01 GENERAL INSTRUCTIONS	2	03 DISPLAYS	26
Quick & easy reference	4	Indicator and warning lights	28
Abbreviations and symbols	4	TFT display in Pure Ride view	29
Equipment	5	TFT display in menu view	30
Technical data	5	Indicator lights	31
Currentness of this manual	6		
Additional sources of information	6	04 OPERATION	62
Certificates and operating permits	6	Ignition	64
Data memory	6	Emergency-off switch	69
Intelligent assist system	11	Intelligent emergency call	70
		Lighting	72
		Anti-theft alarm system (DWA)	75
02 OVERVIEWS	16	Dynamic Traction Control (DTC)	78
Overall view, left side	18	Electronic chassis and suspension adjustment (D-ESA)	79
Overall view, right side	19	Riding mode	79
Overall dashboard view	20	Cruise control	81
Underneath the seat	21	Hill Start Control	84
Multifunction switch, left	22	Reverser	85
Multifunction switch, right	23	Central locking system	87
Multifunction switch, right	24	Heating	88
Instrument cluster	25	Wind deflection wing	90
		Seat	91
		Case	91
		Topcase	94
		Storage compartments	97

05 TFT DISPLAY	102	08 RIDING	144
General notes	104	Safety instructions	146
Principle	105	Regular check	148
Pure Ride view	111	Starting	149
Split screen	112	Breaking in	152
General settings	113	Shifting	153
Bluetooth®	115	Brakes	153
Wi-Fi	117	Parking the motorcycle	155
My Vehicle	118	Refueling	156
Trip computer	121	Securing motorcycle for transportation	161
Navigation	122		
Media	124		
Telephone	125		
Programmable memory buttons	126	09 TECHNOLOGY IN DETAIL	164
Displaying software version	127	General notes	166
Displaying license information	127	Antilock braking system (ABS)	166
		Dynamic Traction Control (DTC)	169
06 AUDIO SYSTEM	128	Engine drag torque control	171
Radio	130	Electronic chassis and suspension adjustment	171
Audio settings	132	Riding mode	172
Player	134	Tire pressure monitoring (RDC)	173
Satellite radio	134	Gear Shift Assistant	175
HD Radio reception	136	Hill Start Control	176
Audio playback via helmet	136	Adaptive headlight	178
07 SETTING	138		
Mirrors	140		
Windshield	140		
Clutch	141		
Brakes	141		

10 MAINTENANCE	180	13 TECHNICAL DATA	218
General notes	182	Troubleshooting chart	220
Onboard vehicle tool kit	182	Threaded connections	223
Front wheel stand	183	Fuel	225
Engine oil	183	Engine oil	226
Brake system	185	Engine	226
Clutch	190	Clutch	227
Coolant	190	Transmission	227
Tires	191	Rear-wheel drive	228
Rims	192	Frame	228
Wheels	192	Running gear	228
Light sources	199	Brakes	229
Jump-starting	199	Wheels and tires	229
Battery	200	Electrical system	231
Fuses	204	Anti-theft alarm system	231
Diagnostic connector	205	Dimensions	232
		Weights	232
		Performance data	233
11 ACCESSORIES	208		
General notes	210	14 SERVICE	234
Sockets	210	Reporting safety defects	236
		BMW Motorrad	
12 CARE	212	Service	237
Care products	214	BMW Motorrad	
Washing the vehicle	214	Service History	237
Cleaning sensitive vehicle parts	215	BMW Motorrad Mobility Services	238
Care of paintwork	216	Maintenance work	238
Paint preservation	217	Maintenance schedule	240
Storing the motorcycle	217	BMW Motorrad break-in service	241
Putting the motorcycle into operation	217	Maintenance confirmations	242

Service confirmations	254
------------------------------	------------

APPENDIX	256
-----------------	------------

Certificate for TFT instrument cluster	257
---	------------

Certificate for audio system	261
-------------------------------------	------------

Certificate for electronic immobilizer	262
---	------------

Certificate for Keyless Ride	265
-------------------------------------	------------

Certificate for Keyless Ride	267
-------------------------------------	------------

Certificate for Keyless Ride	269
-------------------------------------	------------

Certificate for Keyless Ride	271
-------------------------------------	------------

Certificate for Tire Pressure Monitor	273
--	------------

IP notice: HD radio™	274
-----------------------------	------------

INDEX	276
--------------	------------

GENERAL INSTRUCTIONS

01

QUICK & EASY REFERENCE	4
ABBREVIATIONS AND SYMBOLS	4
EQUIPMENT	5
TECHNICAL DATA	5
CURRENTNESS OF THIS MANUAL	6
ADDITIONAL SOURCES OF INFORMATION	6
CERTIFICATES AND OPERATING PERMITS	6
DATA MEMORY	6
INTELLIGENT ASSIST SYSTEM	11

4 GENERAL INSTRUCTIONS

QUICK & EASY REFERENCE

This rider's manual has been designed to provide quick and efficient orientation. The quickest way for you to find information on specific topics is to consult the comprehensive index at the end of the rider's manual. If you would like to start with a quick overview of your vehicle, this information has been provided in chapter 2. All preventive 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.

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.

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

• Instruction.
» Result of a repair procedure.

 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.

D-ESA Electronic chassis and suspension adjustment.

DTC Dynamic Traction Control.

DWA Anti-theft alarm.

EWS Electronic immobilizer.

TPC Tire Pressure Control (TPC).

(OA) offered by BMW. 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 this rider's manual 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 this rider's manual 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 retailer or

EQUIPMENT

When you ordered your BMW Motorrad, you chose various custom equipment items. This rider's manual describes optional equipment (OE) and selected optional accessories

6 GENERAL INSTRUCTIONS

other qualified service partner or repair shop. The information on the vehicle documents always takes precedence over the information in this rider's manual.

CURRENTNESS OF THIS MANUAL

The high safety and quality levels of BMW motorcycles are maintained by constant development work on design, equipment and accessories. For this reason, some aspects of your vehicle may vary from the descriptions in this rider's manual. 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

Authorized BMW Motorrad retailer

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

Internet

The rider's manual for your vehicle, 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 rider 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 rider 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 on the Internet.

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.

8 GENERAL INSTRUCTIONS

The vehicle data is read out via the vehicle's legally mandated diagnostic socket.

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. The provision of 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 centrifugal velocity and deceleration
- Ambient 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 riding dynamics 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 diagnostic socket is used to read out the data.

The data is collected, processed and used by the respective service 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.

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 combination with a communication system or integrated navigation system
- Entered destinations
- 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

10 GENERAL INSTRUCTIONS

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 on-line services. The data transmitted depends on the selected settings when using the services.

Incorporating 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 information, depending on the type of incorporation, and makes it possible to optimize the use of selected 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 on-line 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 rider's manual or on the manufacturer'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 term of data protection and use 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.

INTELLIGENT ASSIST SYSTEM

—with intelligent emergency call^{OE}

Principle

The intelligent assist system makes it possible to place manual or automatic emergency calls in the event of an accident, for example.

The emergency calls are answered by an emergency call center authorized by the vehicle manufacturer.

For information on how to operate the intelligent assist system and its features, see (▮▮▮ 70).

Legal basis

The processing of personal data by way of the intelligent assist system complies with the following regulations:

- Protection of personal data: Directive 95/46/EC of the European Parliament and of the Council.
- Protection of personal data: Directive 2002/58/EC of the European Parliament and of the Council.

The legal basis for the activation and operation of the in-

12 GENERAL INSTRUCTIONS

telligent assist system are the signed ConnectedRide contract for this function, as well as the corresponding laws, regulations, and directives of the European Parliament and European Council.

The relevant regulations and directives govern the protection of individuals when processing personal data.

The processing of personal data by the intelligent assist system conforms to the European directive concerning personal data protection.

The intelligent assist system processes personal data only with the consent of the vehicle owner.

The intelligent assist system and other services with additional benefits may process personal data only with the express consent of the individual affected by the data processing, for example, the vehicle owner.

SIM card

The intelligent assist system is operated by way of mobile radio via the installed SIM card in the vehicle. The SIM card is permanently registered to the mobile phone network to

enable a fast connection setup. The data is sent to the vehicle manufacturer in the event of an emergency.

Quality improvement

The data transmitted in the event of an emergency call is also used by the vehicle manufacturer to improve the quality of products and services.

Geopositioning

The vehicle position can be determined exclusively by the mobile phone network provider based on their mobile phone cell towers. The network provider cannot link the vehicle identification number and phone number of the installed SIM card. Only the vehicle manufacturer can link the vehicle identification number and phone number of the installed SIM cards.

Emergency call log data

The emergency call log data is stored in the vehicle memory. The oldest log data is deleted regularly. The log data includes for example information about when and where an emergency call was initiated. The log data can be read out from the vehicle memory in exceptional

cases. The log data is usually read out only by court order and can only be read out when the relevant devices are connected directly to the vehicle.

Automatic emergency call

The system is designed so that an emergency call is triggered automatically in the event of an accident of a particular severity detected by sensors in the vehicle.

Transmitted information

In the event of an emergency call by the intelligent assist system, the same information is forwarded to the authorized emergency call center as is forwarded by the assist system eCall to the public emergency operations center.

Moreover, through the intelligent assist system, the following additional information is sent to one of the emergency call centers authorized by the vehicle manufacturer and forwarded to the public safety answering point if necessary:

- Accident data, such as the direction of impact detected by the vehicle sensors in order to facilitate planning of the deployment of emergency services.

- Contact information, such as the phone number of the installed SIM card and that of the rider, if available, in order to expedite contact with the individuals involved in the accident.

Data storage

The data related to a triggered emergency call is stored in the vehicle. The data contains information about the emergency call, such as the emergency call location and time.

Audio recordings of emergency calls are stored at the emergency call center.

Customer audio recordings are stored for 24 hours in case the details of the emergency call need to be analyzed. The audio recordings are then deleted.

Emergency call center employee audio recordings are stored for 24 hours for quality assurance purposes.

Disclosure of personal data

The data processed as part of the intelligent emergency call is processed only for the purpose of providing the emergency call service. The vehicle manufacturer discloses information about the data that it processes or continues to store

14 GENERAL INSTRUCTIONS

if necessary as part of its legal obligation.

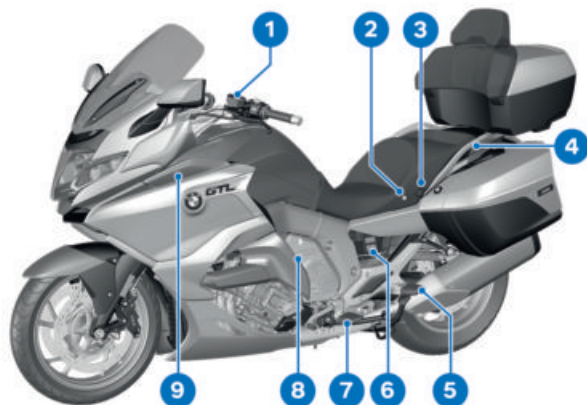
OVERVIEWS

02

OVERALL VIEW, LEFT SIDE	18
OVERALL VIEW, RIGHT SIDE	19
OVERALL DASHBOARD VIEW	20
UNDERNEATH THE SEAT	21
MULTIFUNCTION SWITCH, LEFT	22
MULTIFUNCTION SWITCH, RIGHT	23
MULTIFUNCTION SWITCH, RIGHT	24
INSTRUMENT CLUSTER	25

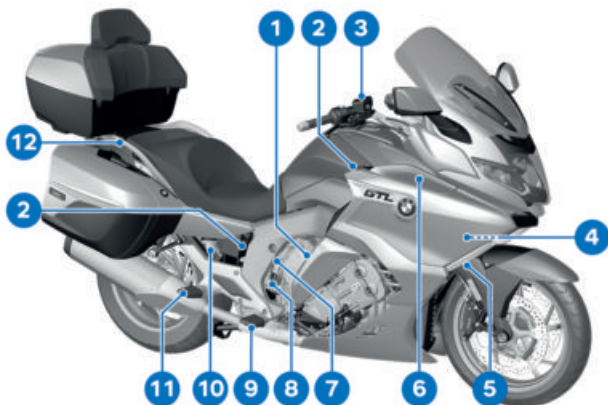
18 OVERVIEWS

OVERALL VIEW, LEFT SIDE



- 1 Clutch fluid reservoir
(190)
- 2 Seat lock (91)
- 3 Passenger seat heater
(89)
- 4 Passenger grab handle
- 5 Passenger footrest
- 6 Payload table
Tire pressure table
- 7 Rider footrest
- 8 Storage compartment
(97)
- 9 Wind deflection wing
(90)

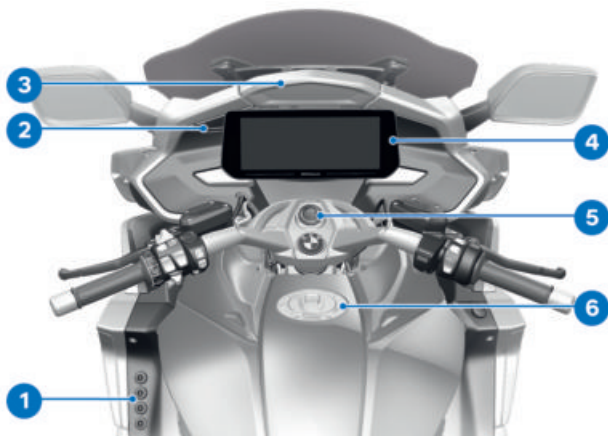
OVERALL VIEW, RIGHT SIDE



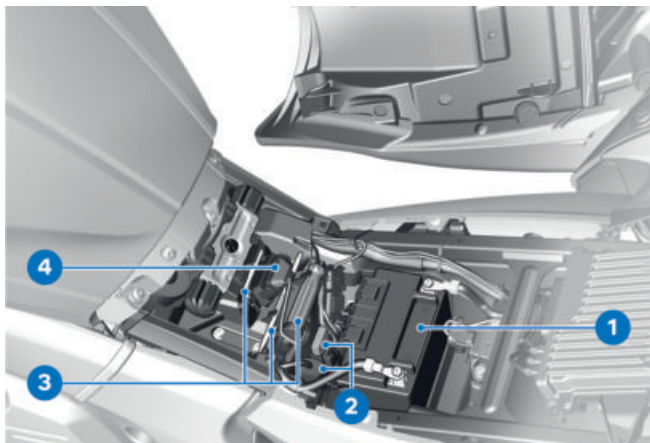
- | | |
|--|--|
| <p>1 Storage compartment
(➡ 97)</p> <p>2 Sockets (➡ 210)</p> <p>3 Brake fluid reservoir
for front wheel brake
(➡ 188)</p> <p>4 Coolant level indicator
(behind the side trim panel)
(➡ 190)</p> <p>5 Nameplate (wheel carrier,
right front)</p> <p>6 Wind deflection wing
(➡ 90)</p> | <p>7 Engine number (above oil
filler neck)
Vehicle identification
number (above the oil
filler neck at the main
frame tail part)</p> <p>8 Oil filler opening
(➡ 183)</p> <p>9 Rider footrest</p> <p>10 Brake fluid reservoir
for rear wheel brake
(➡ 189)</p> <p>11 Passenger footrest</p> <p>12 Passenger grab handle</p> |
|--|--|

20 OVERVIEWS

OVERALL DASHBOARD VIEW



- 1** Programmable memory buttons (➡ 126)
- 2** Charging storage compartment button (➡ 98)
- 3** Charging storage compartment (➡ 98)
- 4** TFT display (➡ 29)
- 5** Ignition switch/steering lock (➡ 64)
- 6** Fuel filler opening (➡ 157)

UNDERNEATH THE SEAT

- 1** Battery (➡ 200)
- 2** Fuses (➡ 204)
- 3** Onboard vehicle tool kit
(➡ 182)
- 4** Diagnostic connector
(➡ 205)

22 OVERVIEWS

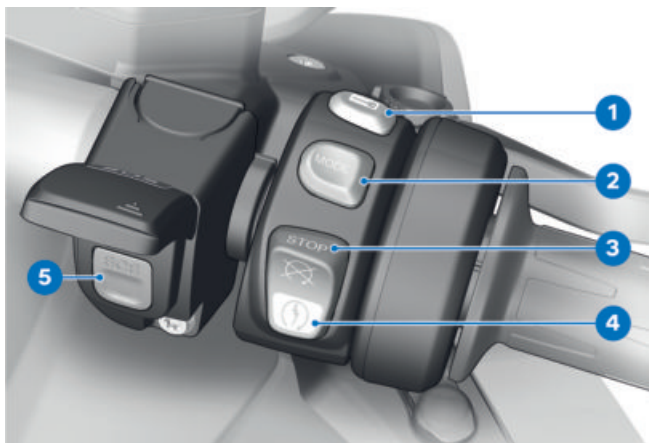
MULTIFUNCTION SWITCH, LEFT



- 1 High beams and headlight flasher (►► 73)
- 2 Cruise control (►► 81)
- 3 Hazard warning system (►► 74)
- 4 Windshield (►► 140)
- 5 Reverser (►► 86)
- 6 Auxiliary headlights (►► 74)
- 7 Turn signals (►► 75)
- 8 Horn
- 9 Rocker button MENU (►► 105)
- 10 Multi-Controller (►► 105)

MULTIFUNCTION SWITCH, RIGHT

—with intelligent emergency call^{OE}



- 1** Central locking system
(87)
- 2** Riding mode (80)
- 3** Emergency-off switch
(69)
- 4** Starter button (149)
- 5** SOS button
Intelligent emergency call
(70)

24 OVERVIEWS

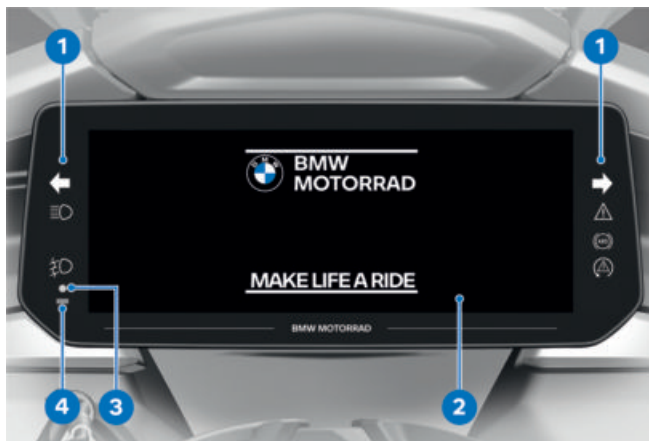
MULTIFUNCTION SWITCH, RIGHT

—without intelligent emergency call^{OE}



- 1** Central locking system
( 87)
- 2** Riding mode ( 80)
- 3** Emergency-off switch
( 69)
- 4** Starter button ( 149)

INSTRUMENT CLUSTER



- 1 Indicator and warning lights (➡ 28)
- 2 TFT display (➡ 29)
- 3 Indicator light DWA (➡ 76)
Keyless Ride (➡ 64)
- 4 Photodiode (for adjusting brightness of instrument lighting)

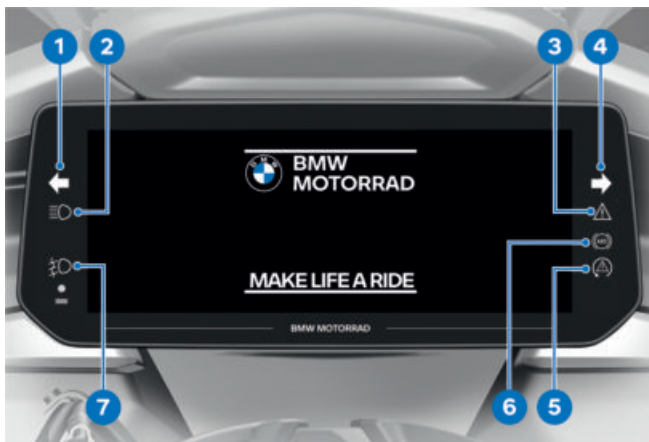
DISPLAYS

03

INDICATOR AND WARNING LIGHTS	28
TFT DISPLAY IN PURE RIDE VIEW	29
TFT DISPLAY IN MENU VIEW	30
INDICATOR LIGHTS	31

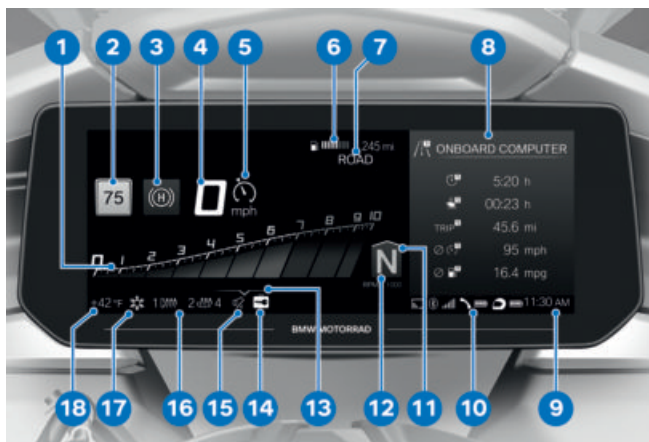
28 DISPLAYS

INDICATOR AND WARNING LIGHTS



- 1 Turn signal, left (➡ 75)
- 2 High beams (➡ 73)
- 3 General warning light (➡ 31)
- 4 Turn signal, right (➡ 75)
- 5 DTC (➡ 54)
- 6 ABS (➡ 53)
- 7 Auxiliary headlights (➡ 74)

TFT DISPLAY IN PURE RIDE VIEW



- | | |
|--|---|
| 1 Tachometer (➡ 111) | 12 Gear display, "N" (Neutral) is displayed in the neutral position. |
| 2 Speed Limit Info (➡ 111) | 13 Operating instructions (➡ 107) |
| 3 Hill Start Control (➡ 84) | 14 Central locking system (➡ 87) |
| 4 Speedometer | 15 Muting (➡ 113) |
| 5 Cruise control (➡ 81) | 16 Heating (➡ 88) |
| 6 Rider info. status line (➡ 109) | 17 External temperature warning (➡ 39) |
| 7 Riding mode (➡ 79) | 18 Outside temperature |
| 8 Split screen (➡ 112) | |
| 9 Clock (➡ 114) | |
| 10 Connection status (➡ 116) | |
| 11 Upshift recommendation (➡ 112) | |

30 DISPLAYS

TFT DISPLAY IN MENU VIEW



- | | |
|--|---|
| 1 Hill Start Control (➡ 84) | 11 Central locking system (➡ 87) |
| 2 Speedometer | 12 Muting (➡ 113) |
| 3 Cruise control (➡ 81) | 13 Heating (➡ 88) |
| 4 Rider info. status line (➡ 109) | 14 External temperature warning (➡ 39) |
| 5 Riding mode (➡ 79) | 15 Outside temperature |
| 6 Gear display, "N" (Neutral) is displayed in the neutral position. | 16 Menu area |
| 7 Split screen (➡ 112) | |
| 8 Clock (➡ 114) | |
| 9 Connection status (➡ 116) | |
| 10 Operating instructions (➡ 107) | |

INDICATOR LIGHTS

Layout

Warnings are indicated by the corresponding warning light. Warnings are indicated by the general warning light in combination with a dialog in the TFT display. The general warning light lights up in either yellow or red, depending on the urgency of the warning.

 The general warning light lights up for whichever warning is most urgent at the current time.

You will find an overview of the potential warnings on the following pages.



Check Control display

The messages in the display are shown differently in the display. Different colors and characters are used depending on the priority:

- Green CHECK OK **1**: No message, optimal values.
- White circle with lowercase "i" **2**: Information.
- Yellow warning triangle **3**: Warning, value not optimal.
- Red warning triangle **3**: Warning, value critical.



Value display

The icons **4** are displayed differently. Different colors are used depending on the assessment of value. Instead of numerical values **8** with units **7**, texts **6** are also displayed:

Color of the icon

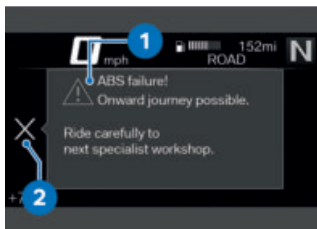
- Green: (OK) Current value is optimal.
- Blue: (Cold!) Current temperature is low.
- Yellow: (Low!/High!) Current value is too low or too high.
- Red: (Hot!/High!) Current temperature or value is too high.

32 DISPLAYS

–White: (---) There is no valid value. Instead of the value, dashes **5** are displayed.

 The evaluation of the individual values is possible in part only after a certain riding duration or speed. If a measured value cannot yet be displayed due to unfulfilled measurement conditions, dashes are displayed instead as placeholders. As long as no valid measured value is available, no evaluation is carried out in the form of a colored symbol.

- If the icon **2** is active, this can be acknowledged by tilting the Multi-Controller to the left.
- Check Control messages are dynamically added to the screens in the *My vehicle* menu as additional tabs ( 107). You can go back to the message as long as the fault is present.



Check Control dialog

Messages are output as Check Control dialog **1**.

–If several Check Control messages of the same priority are present, the messages change in the order in which they occur, until they are acknowledged.

Overview of warning indicators

Indicator and warning lights	Display text	Meaning
	 is displayed.	External temperature warning (▮▮▮▮ 39)
 lights up yellow.	 Remote key not in range.	Radio-operated key outside reception range (▮▮▮▮ 39)
 lights up yellow.	 Keyless Ride failure!	Keyless Ride malfunction (▮▮▮▮ 40)
 lights up yellow.	 Remote key battery low.	Replacing the battery of the radio-operated key (▮▮▮▮ 40)
	 is displayed in yellow.	Voltage of the vehicle electrical system too low (▮▮▮▮ 40)
	 Vehicle voltage low.	
 lights up yellow.	 is displayed in yellow.	Voltage of the vehicle electrical system is critical (▮▮▮▮ 41)
	 Vehicle voltage critical!	
 blinks yellow.	 is displayed in yellow.	Charging voltage critical (▮▮▮▮ 41)
	 Battery critically low!	
 lights up yellow.	 The faulty light source is displayed.	Faulty light source (▮▮▮▮ 42)
 blinks yellow.	 The faulty light source is displayed.	
 lights up yellow.	 Light control failure!	Light control unit failed (▮▮▮▮ 43)

34 DISPLAYS

Indicator and warning lights	Display text	Meaning
	 Anti-theft alarm batt. capacity low.	Anti-theft alarm system battery is weak (▣▣▣ 43)
	 Anti-theft alarm battery discharged.	Anti-theft alarm system battery discharged (▣▣▣ 43)
	 Anti-theft alarm system failure.	DWA malfunction (▣▣▣ 44)
 lights up yellow.	 Engine oil level. Check engine oil level.	Low engine oil level (▣▣▣ 44)
 lights up yellow.	 Engine too hot!	Engine temperature high (▣▣▣ 45)
 lights up red.	 Engine overheating!	Engine overheated (▣▣▣ 45)
 lights up yellow.	 No communication with engine control.	Engine control malfunction (▣▣▣ 46)
 lights up.		
 lights up yellow.	 Fault in the engine control.	Engine in emergency operation mode (▣▣▣ 46)
 blinks red.	 Serious fault in the engine control.	Serious fault in the engine control (▣▣▣ 47)
 lights up yellow.	 is displayed in yellow.	Tire pressure is the limit range of approved tolerance (▣▣▣ 49)

Indicator and warning lights	Display text	Meaning
	 Tire pressure not at set-point.	Tire pressure is the limit range of approved tolerance (➡ 49)
 blinks red.	 is displayed in red.	Tire pressure is outside the approved tolerance range (➡ 49)
	 Tire pressure not at set-point.	
	 Tire Press. Monitor. Loss of pressure.	
	 "----"	Transmission fault (➡ 50)
 lights up yellow.	 "----"	Sensor faulty or system fault (➡ 50)
 lights up yellow.	 Tire Press. Monitor failure!	Tire Pressure Monitor (TPM) malfunction (➡ 51)
 lights up yellow.	 TPM sensors battery low.	Battery of the tire pressure sensor weak (➡ 51)
	 Fall sensor faulty.	Fall sensor defective (➡ 51)
	 Cannot start engine.	Motorcycle has fallen over (➡ 51)
 lights up yellow.	 Emergency call system restricted.	Emergency call function has limited availability (➡ 52)

36 DISPLAYS

Indicator and warning lights	Display text	Meaning
 lights up yellow.	 Emergency call system failure.	Emergency call function failed ( 52)
 lights up yellow.	 Side stand monitoring faulty.	Side stand monitoring faulty ( 52)
 flashes.		ABS self-diagnosis not completed ( 53)
 lights up yellow.	 Limited ABS availability!	ABS fault ( 53)
 lights up.		
 lights up yellow.	 ABS Pro failure!	ABS Pro failure ( 53)
 lights up.		
 flashes rapidly.		DTC intervention ( 54)
 flashes slowly.		DTC self-diagnosis not completed ( 54)
 lights up.	 Off!	DTC turned off ( 54)
	 Traction control deactivated.	
 lights up yellow.	 Traction control limited.	Limited DTC availability
 lights up.		( 55)

Indicator and warning lights	Display text	Meaning
 lights up yellow.	 Traction control failure!	DTC error (→ 55)
 lights up.		
 lights up yellow.	 Spring strut adjustment faulty!	D-ESA error (→ 56)
	 is displayed in green.	Hill Start Control active (→ 56)
	 blinks yellow.	Hill Start Control automatically deactivated (→ 56)
	HSC not available. Engine not running.	
	HSC not available. Side stand lined.	
	 is displayed.	Hill Start Control cannot be activated (→ 56)
	HSC not available. Engine not running.	
 lights up yellow.	 Brake temperature high!	Brake temperature too high (→ 57)
 lights up yellow.	 Brake temperature critical!	Brake temperature critical (→ 57)
 lights up yellow.	 Cruise control not functioning.	Cruise control failed (→ 58)

38 DISPLAYS

Indicator and warning lights	Display text	Meaning
	 Audio system Level 3 too hot.	Audio system temperature too high (→ 58)
	 Audio system voltage is high!	Audio system voltage too high (→ 58)
	 Low fuel.	Fuel has reached reserve volume (→ 59)
	 Gear indicator flashes.	Gear not trained (→ 59)
 flashes in green.		Hazard warning lights system switched on (→ 59)
 flashes in green.		
	 is displayed in white. Service due!	Service due (→ 60)
 lights up yellow.	 is displayed in yellow. Service overdue!	Service appointment overdue (→ 60)

Outside temperature

The outside temperature is displayed in the status line of the TFT display.

Engine heat can lead to spurious measurement readings of the outside temperature when the vehicle is stationary. If the effect of the motor heat becomes excessive, dashes are temporarily displayed instead of the value.



If the outside temperature falls below the limit value of Approx. 37 °F (Approx. 3 °C), there is a risk of black ice formation.

The first time the temperature drops below this value, the outside temperature display and ice crystal symbol will blink in the status line of the TFT display.

External temperature warning



is displayed.

Possible cause:



The outside temperature measured on the vehicle is less than:

Approx. 37 °F (Approx. 3 °C)



WARNING

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

Risk of accident

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

- Use caution when riding.

Radio-operated key outside reception range



lights up yellow.



Remote key not in range. It is not possible to turn on the ignition again.

Possible cause:

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

- Check the battery in the radio-operated key.
- Replacing the battery of the radio-operated key (► 68).
- Use the spare key for further travel.
- Battery of radio-operated key is drained, spare key is not available (► 67).
- If the Check Control dialog appears while riding, remain

40 DISPLAYS

calm. You can continue riding; the engine will not turn off.

- Have any faulty radio-operated keys replaced by a BMW Motorrad retailer.

Keyless Ride malfunction



lights up yellow.



Keyless Ride failure! Do not stop engine. Engine restart may not be possible.

Possible cause:

The Keyless Ride control unit has diagnosed a communication fault.

- Do not shut off the engine. Visit a specialist workshop immediately if possible, ideally an authorized BMW Motorrad retailer.
- » Engine start using Keyless Ride is no longer possible.
- » DWA can no longer be activated.

Replacing the battery of the radio-operated key



lights up yellow.



Remote key battery low. Function limited. Change battery.

Possible cause:

- The battery for the radio-operated key is no longer charged to full capacity. Operation of the radio-operated key is only ensured for a limited time.
- Replacing the battery of the radio-operated key (► 68).

Voltage of the vehicle electrical system too low



is displayed in yellow.



Vehicle voltage low. Switch off unneeded consumers.

The vehicle voltage is too low. If you continue riding, the vehicle electronics will discharge the battery.

Possible cause:

Consumers with high electrical consumption, e.g. heating vests, are in operation; too many consumers are in operation at the same time, or the battery is faulty.

- Switch off consumers that are not needed or disconnect them from the electrical system.
- If the malfunction persists or occurs without any consumers connected, have the malfunction corrected as soon as

possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Voltage of the vehicle electrical system is critical



lights up yellow.



is displayed in yellow.



Vehicle voltage critical! Consumers were switched off Check battery condition.



WARNING

Failure of vehicle systems

Accident hazard

- Do not continue riding.

The vehicle voltage is critical. If you continue riding, the vehicle electronics will discharge the battery.

Possible cause:

Consumers with high electrical consumption, e.g. heating vests, are in operation; too many consumers are in operation at the same time, or the battery is faulty.

- Switch off consumers that are not needed or disconnect them from the electrical system.

- If the malfunction persists or occurs without any consumers connected, have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Charging voltage critical



blinks yellow.



is displayed in yellow.



Battery critically low! Risk of accident. Do not continue to operate vehicle.



WARNING

Failure of vehicle systems

Accident hazard

- Do not continue riding.

The battery is not being charged. If you continue riding, 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.

42 DISPLAYS

Faulty light source

 lights up yellow.

 The faulty light source is displayed:

 High beam faulty!

 Turn indicator front left faulty! or Turn indicator front right faulty!

 Low beam faulty!

 Front parking lamp faulty!

—with additional headlight^{OE}

 Left auxiliary headlight faulty! or Right auxiliary headlight faulty!<

 Tail light faulty!

 Brake light faulty!

 Rear left turn signal faulty! or Rear right turn signal faulty!

 License plate light faulty!

—Have checked by a specialist workshop.

 blinks yellow.

 The faulty light source is displayed:

 Active headlamp faulty.



WARNING

Overlooking the vehicle in traffic due to a defective light source on the vehicle

Safety risk

- Replace defective light sources as quickly as possible. For details please contact a specialist service facility, preferably an authorized BMW Motorrad Retailer.

Possible cause:

Light source faulty.

- Locate faulty light sources by means of a visual inspection.
- Have the LED light source replaced in full; for details please contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

Light control unit failed

lights up yellow.



Light control failure! Have checked by a specialist workshop.

**WARNING****Overlooking the vehicle in traffic due to failure of the vehicle lighting**

Safety risk

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

The vehicle lighting has failed partially or completely.

Possible cause:

The light control unit has diagnosed a communication fault.

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

Anti-theft alarm system battery is weak

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



Anti-theft alarm batt. capacity low. No limitations. Arrange an appointment at a specialist workshop.



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

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 system battery discharged

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



Anti-theft alarm battery discharged. No independent alarm. Arrange an appointment at a specialist workshop.

44 DISPLAYS

 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.

DWA malfunction

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

 Anti-theft alarm system failure. Have checked by a specialist workshop.

Possible cause:

The DWA control unit has diagnosed a communication fault.

- Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.
- » DWA can no longer be activated or deactivated.
- » False alarm possible.

Electronic oil-level check

 The electronic oil-level check evaluates the oil level in the engine as OK or Low!

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

- Engine in Neutral for at least 10 seconds.
- Engine is at operating temperature.
- No brake applied.
- Vehicle stands vertically on a level surface.
- The side stand is folded in or the vehicle is resting on the center stand.

If the measurement is incomplete or the conditions specified above are not fulfilled, an assessment of the oil level is not possible. Dashes (---) are indicated in place of the note.

Low engine oil level

 lights up yellow.

 Engine oil level.
Check engine oil level.

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:

- Check the engine oil level (1111111111 183).

If oil level is too low:

- Topping up the engine oil (1111111111 185).

Engine temperature high



lights up yellow.



Engine too hot! Continue driving at low revs to cool engine.



ATTENTION

Riding with overheated engine

Engine damage

- Be sure to observe the measures listed below.

Possible cause:

Coolant level is too low.

- Checking the coolant level (1111111111 190).

If coolant level is too low:

- Have the coolant level topped up and the coolant system checked at a specialist work-

shop, preferably an authorized BMW Motorrad retailer.

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 overheated



lights up red.



Engine overheating! Come to a safe stop, then stop the engine.



ATTENTION

Riding with overheated engine

Engine damage

- Be sure to observe the measures listed below.

46 DISPLAYS

Possible cause:

Coolant level is too low.

- Checking the coolant level (190).

If coolant level is too low:

- Have the coolant level topped up and the coolant system checked at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Possible cause:

Engine is overheated.

- Carefully come to a stop and turn off the engine until it has cooled down.
- If the engine overheats more frequently, have the fault corrected as soon as possible by a specialist workshop, preferably an authorized BMW Motorrad retailer.

Engine control malfunction



lights up yellow.



lights up.



No communication with engine control. Multiple sys. affected. Ride carefully to the next specialist workshop

Possible cause:

Communication with the engine control unit has failed.

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

Engine in emergency operation mode



lights up yellow.



Fault in the engine control. Onward journey possible. Ride carefully to next specialist workshop.



WARNING

Unusual handling when the engine is in emergency operation

Accident hazard

- Avoid rapid acceleration and passing maneuvers.

Possible cause:

The engine control unit has diagnosed a fault. In exceptional cases, the engine stops and can no longer be started. Otherwise, the engine runs in emergency operation.

- Continued riding is possible, however, the accustomed en-

gine power may not be available.

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

Serious fault in the engine control



blinks red.



Serious fault in the engine control. Onward journey possible. Damage possible. Have checked by a workshop.



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.

Possible cause:

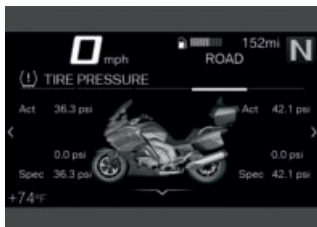
The engine control unit has diagnosed a fault, which can lead to a severe consequential fault. The engine is in emergency operation.

- Continued riding is possible, however it is not recommended.
- Avoid high load and engine speed ranges if possible.
- Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Tire pressure

In addition to the MY VEHICLE menu screen and the Check Control messages, there is also the TIRE PRESSURE screen to display the tire pressures:

48 DISPLAYS



The values on the left refer to the front wheel, and the values on the right refer to the rear wheel.

The pressure differential is indicated by the current and set-point tire pressure.

Immediately after the ignition is turned on, only dashes are displayed. The transmission of the tire pressure values does not begin until the following minimum speed is exceeded for the first time:



RDC sensor is not active

min 19 mph (min 30 km/h)
(The RDC sensor transmits its signal to the vehicle only once the minimum speed has been exceeded.)



The tire pressures are shown in the TFT display with temperature compensation and are always based on the following tire air temperature:

68 °F (20 °C)



If the tire icon is also displayed in yellow or red, this is a warning. The pressure differential is highlighted with an exclamation mark of the same color.



If the value in question is within the limit range of the permitted tolerance, the general warning light also lights up yellow.



If the determined tire pressure is outside the permitted tolerance, the general warning light blinks red.

For more information about the BMW Motorrad Tire Pressure Monitor (TPM), see the "Technology in detail" chapter (173).

Tire pressure is the limit range of approved tolerance



lights up yellow.



is displayed in yellow.



Tire pressure not at setpoint. Check tire pressure.

Possible cause:

The measured tire pressure is within the limit range of the permissible tolerance.

- Correct the tire pressure.
- Before adjusting the tire pressure, check the information on temperature compensation and tire pressure adjustment in the "Technology in detail" chapter (174).

» The target tire pressures can be found in the following locations:

- On the back cover of the rider's manual
- Instrument cluster in the TIRE PRESSURE view
- Sign on the left fork leg

Tire pressure is outside the approved tolerance range



blinks red.



is displayed in red.



Tire pressure not at setpoint. Stop immediately! Check tire pressure.



Tire Press. Monitor. Loss of pressure. Stop immediately! Check tire pressure.



WARNING

Tire pressure is outside the approved tolerance range.

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

- Adjust the driving style.

Possible cause:

The measured tire pressure is outside of the permissible tolerance.

- Check tire for damage and ridability.

If the tire is still rideable:

- Correct the tire 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 (174).

50 DISPLAYS

» The target tire pressures can be found in the following locations:

- On the back cover of the rider's manual
- Instrument cluster in the **TIRE PRESSURE** view
- Sign on the left fork leg
- Have the tire checked by a specialist workshop for damage, preferably by an authorized BMW Motorrad retailer.

If you are unsure about the tire's ridability:

- Do not continue riding.
- Contact roadside service.

Transmission fault



"---"

Possible cause:

The vehicle has not reached the minimum speed (173).



RDC sensor is not active

min 19 mph (min 30 km/h)
(The RDC sensor transmits its signal to the vehicle only once the minimum speed has been exceeded.)

- Watch the RDC display at higher speed. This is a permanent fault only when the general warning light also lights up. In this case:

- Have the malfunction corrected at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Possible cause:

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

- Observe the RDC display in a different environment. This is a permanent fault only when the general warning light also lights up. In this case:
- Have the malfunction corrected at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Sensor faulty or system fault



lights up yellow.



"---"

Possible cause:

Wheels without RDC sensors are installed.

- Retrofit wheel set with RDC sensors.

Possible cause:

One or two RDC sensors have failed or a system fault has occurred.

- Have the malfunction corrected at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Tire Pressure Monitor (TPM) malfunction



lights up yellow.



Tire Press. Monitor failure! Function limited. Have checked by a specialist workshop.

Possible cause:

The TPM control unit has diagnosed a communication fault.

- Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

» Tire pressure warnings not available.

Battery of the tire pressure sensor weak



lights up yellow.



TPM sensors battery low. Function limited. Have checked by a specialist workshop.



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 TPM is only ensured for a limited time.

- Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

Fall sensor defective



Fall sensor faulty. Have checked by a specialist workshop.

Possible cause:

The fall sensor is not functioning.

- Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

Motorcycle has fallen over



Cannot start engine. Stand motorcycle upright. Switch ignition on/off. Start the engine.

52 DISPLAYS

Possible cause:

The fall sensor has detected a fall and turned off the engine.

- Raise the motorcycle to up-right position and check for possible damage.
- Turn ignition off and then on again or turn emergency-off switch on and then off again.

Emergency call function has limited availability

—with intelligent emergency call^{OE}



lights up yellow.



Emergency call system restricted. If it occurs again, have it checked by a specialist workshop.

Possible cause:

The emergency call cannot be established automatically or via BMW.

- Please refer to page (70) for information on using the intelligent emergency call.
- Contact a repair shop, preferably an authorized BMW Motorrad retailer.

Emergency call function failed

—with intelligent emergency call^{OE}



lights up yellow.



Emergency call system failure. Schedule an appointment at a specialist workshop.

Possible cause:

The control unit of the Assist system has diagnosed a fault. The emergency call function has failed.

- Note that the emergency call cannot be placed.
- Contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

Side stand monitoring faulty



lights up yellow.



Side stand monitoring faulty. Onward journey possible. Stop engine when stationary! Have checked by workshop.

Possible cause:



The side support switch or its wiring is damaged

The engine is turned off if the speed falls below the minimum limit. The journey cannot be continued.

min 3 mph (min 5 km/h)

- Contact a repair shop, preferably an authorized BMW Motorrad retailer.

ABS self-diagnosis not completed



flashes.

Possible cause:



ABS self-diagnosis not completed

The ABS function is not available, as the self-diagnosis function has not been completed. (To check wheel speed sensors, the motorcycle must reach a minimum speed with engine running: min 3 mph (min 5 km/h))

- Ride off slowly. Note that the ABS function is only available after the self-diagnosis has been completed.

ABS fault



lights up yellow.



lights up.



Limited ABS availability! Onward journey possible.

Ride carefully to next specialist workshop.

Possible cause:

The ABS control unit has detected an error. The partially integral brake has failed. The ABS function is limited.

- You may continue riding. Take note of additional information on special situations that can lead to an ABS fault message (168).
- Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

ABS Pro failure



lights up yellow.



lights up.



ABS Pro failure! Onward journey possible. Ride carefully to

54 DISPLAYS

next specialist workshop.

Possible cause:

The ABS Pro control unit has detected a fault. The ABS Pro function is not available. The ABS function remains available. ABS only supports braking in straight-ahead riding.

- You may continue riding.

Take note of additional information on special situations that can lead to an ABS Pro fault message (→ 168).

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

DTC intervention



flashes rapidly.

Possible cause:

DTC has detected instability at the rear wheel and responded by reducing the torque.

The indicator and warning light flashes longer than the DTC intervention lasts. This provides the rider with visual feedback for the control action that was taken even after the critical riding situation has passed.

- You may continue riding. Use caution when riding.

DTC self-diagnosis not completed



flashes slowly.

Possible cause:



DTC self-diagnosis not completed

The DTC function is not available, as the self-diagnosis function has not been completed. (To check wheel speed sensors, the motorcycle must reach a minimum speed with engine running: min 3 mph (min 5 km/h))

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

DTC turned off



lights up.



Off!



Traction control deactivated.

Possible cause:

The DTC system has been turned off by the rider.

- Turning the DTC function on and off (► 78).

Limited DTC availability



lights up yellow.



lights up.



Traction control limited. Onward journey possible. Ride carefully to next specialist workshop.

Possible cause:

The DTC control unit has detected an error.



ATTENTION

Damage to components

Damage to sensors, for example, with the resultant malfunctions

- Do not carry along any objects under the rider's or passenger's seat.
- Secure vehicle tools.
- Do not damage the angular rate sensor.
- Note that the DTC function and the engine drag torque

control are only available with limitations.

- You may continue riding. Observe additional information on situations that can lead to a DTC fault (► 170).
- Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

DTC error



lights up yellow.



lights up.



Traction control failure! Onward journey possible. Ride carefully to the next specialist workshop.

Possible cause:

The DTC control unit has detected an error.



ATTENTION

Damage to components

Damage to sensors, for example, with the resultant malfunctions

- Do not carry along any objects under the rider's or passenger's seat.
- Secure vehicle tools.

56 DISPLAYS

- Do not damage the angular rate sensor.
- Note that the DTC function and the engine drag torque control are not available.
- You may continue riding. Observe additional information on situations that can lead to a DTC fault (170).
- Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

D-ESA error



lights up yellow.



Spring strut adjustment faulty! Onward journey possible. Ride carefully to next specialist workshop.

Possible cause:

The D-ESA control unit has detected a fault. 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.

Hill Start Control active



is displayed in green.

Possible cause:

The Hill Start Control (176) has been activated by the rider.

- Turn off Hill Start Control.
- Operate Hill Start Control Pro (84).

Hill Start Control automatically deactivated



blinks yellow.

HSC not available. Engine not running.

HSC not available. Side stand lined.

Possible cause:

Hill Start Control was deactivated automatically.

- Fold in side stand.
- » Hill Start Control only functions when the side stand is folded in.
- Start engine.
- » Hill Start Control only functions with the engine running.

Hill Start Control cannot be activated



is displayed.

HSC not available. Engine not running.

Possible cause:

Hill Start Control was deactivated automatically.

- Fold in side stand.
- » Hill Start Control only functions when the side stand is folded in.
- Start engine.
- » Hill Start Control only functions with the engine running.

Brake temperature too high



lights up yellow.



Brake temperature high! To cool down, continue riding carefully. Avoid dynamic riding.



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.

Brake temperature critical



lights up yellow.



Brake temperature critical! To cool down, continue riding carefully. Avoid dynamic riding.



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.

Possible cause:

The brake temperature is in a critical range.

- You may continue riding carefully until the warning light goes out.

Cruise control failed



lights up yellow.



Cruise control not functioning. Onward journey possible. Testing by workshop required

Possible cause:

The control unit has detected an error.

- Note that the cruise control function is not available.
- You may continue riding. Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Audio system temperature too high



Audio system Level 3 too hot. Audio system is shut down.

The temperature of the audio system control unit is too high. The audio system is shut down. Possible cause:

The audio system control unit has diagnosed excess temperature.

- Protect the motorcycle from direct sunlight.
- If the malfunction persists, have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Audio system voltage too high



Audio system voltage is high! Audio system is muted.

Possible cause:

The audio system control unit has diagnosed excess voltage.

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

Fuel has reached reserve volume



Low fuel. Ride to the next filling station.



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 most, the fuel tank contains only the reserve volume.



Reserve fuel quantity

Approx. 1.1 gal (Approx. 4 l)

- Refueling (11111 157).

Gear not trained

—with Gearshift Assistant Pro^{OE}



Gear indicator flashes.

Possible cause:

—with Gearshift Assistant Pro^{OE}

The transmission sensor has not been completely taught in.

- Engage neutral N run the engine for at least 10 seconds

while parked to teach in the neutral position.

- Shift all gears with clutch control and ride for at least 10 seconds in each engaged gear.

» The gear display stops blinking when the transmission sensor has been successfully taught in.

—Once the transmission sensor has been fully taught in, the Gear Shift Assistant Pro functions as described (11111 175).

- If the teach procedure is unsuccessful, have the fault corrected at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Hazard warning lights system switched on



flashes in green.



flashes in green.

Possible cause:

The hazard warning flasher was switched on by the rider.

- Hazard warning system (11111 74).

Service display



If service is overdue, the service date or the distance covered at which service should have been completed

60 DISPLAYS

is accompanied by the general warning light in yellow.

If service is overdue, a yellow Check Control message is displayed. The displays for service, service appointment, and remaining distance are also highlighted with exclamation marks in the menu windows **MY VEHICLE** and **SERVICE REQUIREMENTS**.



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 due



is displayed in white.

Service due! Have a service performed at a specialist workshop.
Possible cause:

Service is due because of the mileage or the date.

- Have service performed regularly by a specialist workshop, preferably an authorized BMW Motorrad retailer.
- » The operating safety and road safety of the vehicle remains unchanged.

» The best-possible value retention of the vehicle is ensured.

Service appointment overdue



lights up yellow.



is displayed in yellow.

Service overdue! Have a service performed at a specialist workshop.
Possible cause:

Service is overdue because of the riding performance or the date.

- Have service performed regularly by a specialist workshop, preferably an authorized BMW Motorrad retailer.
- » The operating safety and road safety of the vehicle remains unchanged.
- » The best-possible value retention of the vehicle is ensured.

OPERATION

04

IGNITION	64
EMERGENCY-OFF SWITCH	69
INTELLIGENT EMERGENCY CALL	70
LIGHTING	72
ANTI-THEFT ALARM SYSTEM (DWA)	75
DYNAMIC TRACTION CONTROL (DTC)	78
ELECTRONIC CHASSIS AND SUSPENSION ADJUST- MENT (D-ESA)	79
RIDING MODE	79
CRUISE CONTROL	81
HILL START CONTROL	84
REVERSER	85
CENTRAL LOCKING SYSTEM	87
HEATING	88
WIND DEFLECTION WING	90
SEAT	91
CASE	91
TOPCASE	94
STORAGE COMPARTMENTS	97

64 OPERATION

IGNITION

Radio-operated key

 The indicator light for the radio-operated key flashes as long as the radio-operated key is being searched for.

If the radio-operated key or the spare key is detected, it goes out.

If the radio-operated key or the spare key is not detected, it lights up briefly.

You are provided with one radio-operated key and one spare key. If you lose your keys, refer to the notes regarding the electronic immobilizer (EWS) ( 66).

The ignition, fuel filler cap, central locking system and anti-theft alarm system are controlled with the radio-operated key. The seat lock, storage compartments, topcase and case can be operated manually.

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

If the range is exceeded, the ignition is switched off after approx. 90 seconds, and 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.



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 turned off.
- To unlock the steering lock, briefly press button **1**.

Turning on the ignition Requirement

Radio-operated key is within reception area.



- There are **two** ways to activate the ignition.

Version 1:

- Briefly press button **1**.
 - » Parking lights and all function circuits are turned on.
 - with central locking system^{OE}
 - » Ground light extinguishes.<
 - with additional headlight^{OE}
 - » LED auxiliary headlights are turned on.<
 - » Pre-Ride-Check is carried out. (150)
 - » ABS self-diagnosis is performed. (150)

- » DTC self-diagnosis is performed. (151)

Version 2:

- Steering lock is locked; press and hold button **1**.
 - » Steering lock is unlocked.
 - » Parking lights and all function circuits turned on.
 - with central locking system^{OE}
 - » Ground light extinguishes.<
 - with additional headlight^{OE}
 - » LED auxiliary headlights are turned on.<
 - » Pre-Ride-Check is carried out. (150)
 - » ABS self-diagnosis is performed. (150)
 - » DTC self-diagnosis is performed. (151)

Turning off the ignition Requirement

Radio-operated key is within reception area.



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

66 OPERATION

Version 1:

- Briefly press button **1**.
- » After the ignition has been turned off, the instrument cluster remains turned on for a little while and indicates any existing fault messages.
- » The windshield moves to the lower end position.
- with central locking system^{OE}
- » Ground light lights up briefly.
◁
- » Steering lock is not locked.
- » Electrically powered accessories remain operational for a limited period of time.
- » The battery can be recharged using the socket on the dashboard.

Version 2:

- Turn handlebars to left.
- Press and hold button **1**.
- » After the ignition has been turned off, the instrument cluster remains turned on for a little while and indicates any existing fault messages.
- » The windshield moves to the lower end position.
- with central locking system^{OE}
- » Ground light lights up briefly.
◁
- » Steering lock locked.

- » Electrically powered accessories remain operational for a limited period of time.
- » The battery can be recharged using the socket on the dashboard.

Electronic immobilizer EWS

The motorcycle's electronics monitor the data stored in the radio-operated key through a ring antenna in the radio-operated lock. The engine control unit does not enable the engine to start until the radio-operated key has been recognized as "authorized".



If an additional ignition key is attached to the same ring as the radio-operated key used to start the engine, this could affect the electronics, in which case the enabling signal for the engine start is not issued. The warning is displayed in the multifunction display with the key symbol. Always store further vehicle keys separately from the radio-operated key.

If you lose a radio-operated key, you can have it disabled by your authorized BMW Motorrad retailer. When having a radio-operated key disabled you should also bring all of the mo-

motorcycle's remaining keys with you.

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

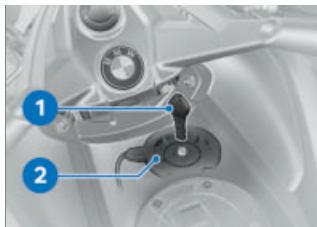
Spare keys are available only through an authorized BMW Motorrad retailer. As the radio-operated keys are part of a safety system, the retailer is under obligation to check your proof of identity.

Radio-operated key lost, spare key available

Requirement

The spare key is available.

- Park the motorcycle, making sure the ground is level and firm.
- If you lose your keys, refer to the notes regarding the electronic immobilizer (EWS) (► 66).
- Should you lose the radio-operated key during a trip, the vehicle can be started using the spare key.



- Hold the spare key **1** above the ring antenna **2**.



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 the engine (► 149).

Battery of radio-operated key is drained, spare key is not available

- Park the motorcycle, making sure the ground is level and firm.

68 OPERATION



- Hold the radio-operated key **1** above the ring antenna **2**.



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 the engine (➡ 149).

Replacing the battery of the radio-operated key

If the radio-operated key does not respond when a button is pressed for a short or long time:

- The battery for the radio-operated key no longer has full capacity.



Remote key battery low. Function limited. Change battery.



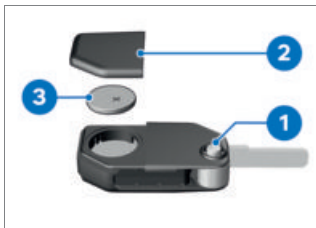
DANGER

Swallowing a battery

Risk of injury or death

- An ignition key contains a button cell as a battery. Batteries or button cells can be swallowed and cause severe or fatal injuries within two hours, e.g. due to internal burns or chemical burns.
- Keep ignition keys and batteries out of the reach (range) of children.
- If it is suspected that a battery or button cell has been swallowed or is inside a body part, seek medical attention immediately.

- Change battery.



- Press button **1**.
- » Key bit folds open.
- Press battery cover **2** upward.
- Remove battery **3**.
- Dispose of the old battery in accordance with legal reg-

ulations. 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 facing up.



Battery type

For Keyless Ride radio-operated key

CR 2032

EMERGENCY-OFF SWITCH



1 Emergency-off 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 turned off easily and quickly using the emergency-off switch.

70 OPERATION



- A** Engine turned off
B Operating position

INTELLIGENT EMERGENCY CALL

—with intelligent emergency call^{OE}

Emergency call via BMW

Only press the SOS button in an emergency.

Emergency call cannot be ensured if the conditions are unfavorable for technical reasons, e.g. in regions where there is no cellphone reception.

During an emergency call, the position of the vehicle, the selected language and any accident data are transmitted to BMW (► 11). Under unfavorable conditions, data transfer can be limited or delayed. This can lead to delayed processing of the emergency call.

Even if an emergency call via BMW is not possible, a call to a

public emergency call number may be established. This depends on the respective mobile phone network and the national regulations.

Emergency call language

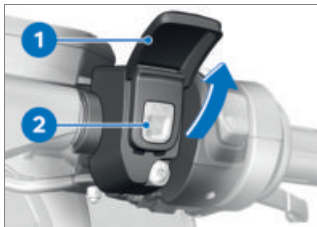
Each vehicle is assigned a language depending on the market for which it was intended. The BMW Call Center will answer in this language.



Only your BMW Motorrad Retailer is able to change the language for the emergency call. This language assignment to the vehicle differs from the display languages the rider is able to select in the multifunction display.

Manual emergency call Requirement

An emergency has arisen. The vehicle is stationary. The ignition is turned on.



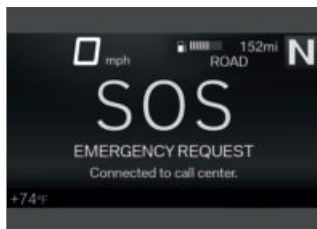
- Open cover 1.

- Briefly press SOS button **2**.



The time until an emergency call is placed is displayed. During this time it is possible to cancel the emergency call by pressing and holding the SOS button.

- Press the emergency-off switch to stop the engine.
 - Remove your helmet.
- » Once the timer has expired, a voice connection will be established with the BMW Call Center.



The connection has been established.



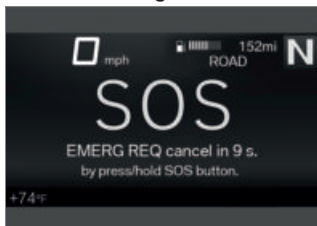
- Use the microphone **3** and speaker **4** to relay information to the rescue services.

Automatic emergency call

The intelligent emergency call is automatically active once the ignition is switched on and will react if you are involved in a fall.

Emergency call in the event of a minor fall

- A minor fall or crash has been detected.
- » An acoustic signal is emitted.

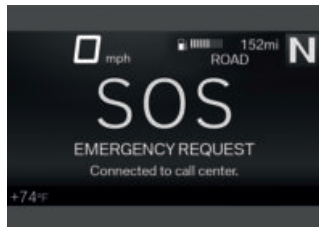


The time until an emergency call is placed is displayed. During this time it is possible to

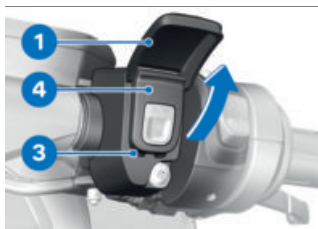
72 OPERATION

cancel the emergency call by pressing and holding the SOS button.

- If possible, remove helmet and stop the engine.
- » Once the timer has expired, a voice connection will be established with the BMW Call Center.



The connection has been established.



- Open cover **1**.
- Use the microphone **3** and speaker **4** to relay information to the rescue services.

Emergency request in the event of a heavy fall

- A heavy fall or crash has been detected.
- » The emergency call is sent automatically without delay.

LIGHTING

Parking lights

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

-  The parking light is a load on the battery. Turn on the ignition only for a limited period.

Turn on low-beam headlight

- Turning on the ignition ( 65).
- Starting the engine ( 149).



- Alternative: With the ignition turned on, pull the switch **1**.

-  The low beams burden the battery. When the engine is not running, only turn on

the low beams for a limited period of time.

High beams and headlight flasher

- Turning on the ignition (▶▶ 65).



- Press switch **1** forward to turn on high beams.
- Pull switch **1** toward rear to actuate headlight flasher.

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

 The high beams burden the battery. When the engine is not running, only turn on the high beams for a limited period of time.

Headlight courtesy delay feature

- Turning off the ignition (▶▶ 65).



- Immediately after turning off the ignition, pull switch **1** back and hold until the headlight courtesy delay feature turns on.
- » The vehicle lighting lights up for one minute and then turns off automatically.
- This can be used, for example, to light the path to your front door after the vehicle is parked.

Ground light

– with central locking system^{OE}

The ground light lights up for a brief time after the ignition has been turned off or after the anti-theft alarm system has been deactivated using the radio-operated key.

Roadside parking lights

- Turning off the ignition (▶▶ 65).

74 OPERATION



- Immediately after turning off the ignition, push button 1 to the left and hold it until the roadside parking lights turn on.
- Turn ignition on and then off again to turn off the roadside parking lights.

Auxiliary headlights

—with additional headlight^{OE}

Requirement

The low beams must be turned on.

 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 turn on the auxiliary headlights.



- Press button 1 again to turn off the auxiliary headlights.

Hazard warning system

- Turning on the ignition ( 65).

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



- Press button 1 to turn on the hazard warning system.
- » Ignition can be turned off.

- To turn off the hazard warning system, turn on the ignition as required and press button **1** once again.

Turn signals

- Turning on the ignition (▮▮▮ 65).
- Go to the Settings, Vehicle settings menu, then select the Lights menu item.
- Turn Comfort turn indicator on or off.



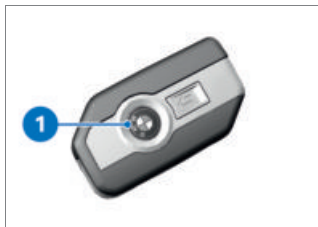
- Press button **1** to the left or right to turn on the turn signals.
- » If the comfort turn signal is turned on, the turn signal automatically switches off once the speed-dependent distance has been covered.
- Alternative: Press button **1** to turn off the turn signals.

ANTI-THEFT ALARM SYSTEM (DWA)

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

Activation

- Turning on the ignition (▮▮▮ 65).
 - Adjusting the DWA (▮▮▮ 78).
 - Turning off the ignition (▮▮▮ 65).
 - » If the DWA is activated, the DWA is automatically activated after the ignition is turned off.
 - » Activation takes approximately 30 seconds to complete.
 - » Turn signals flash twice.
 - » Confirmation tone sounds twice (if programmed).
 - » DWA is armed.
- with central locking system^{OE}



- Turning off the ignition (▮▮▮ 65).
- Press button **1** on the radio-operated key twice.

76 OPERATION

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

- » Activation takes 30 seconds to complete.
- » Turn signals flash twice.
- » Confirmation tone sounds twice (if programmed).
- » DWA is armed.◀



- To deactivate the tilt sensor (for example, if the motorcycle is being transported on a train and the train's movements could trigger the alarm signal), press the button **1** on the radio-operated key again during the activation phase.
 - » Turn signals flash three times.
 - » Confirmation tone sounds three times (if programmed).
 - » Tilt sensor is deactivated.

Alarm signal

The DWA alarm signal can be triggered by:

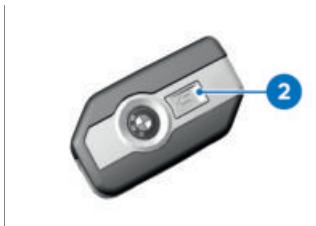
- Tilt alarm sensor
- Switch-on attempt with an ignition key.
- Disconnecting the DWA from the vehicle battery (DWA battery takes over the power supply – alarm tone only, turn signals do not flash).

 If the radio-operated key is within the reception area, any alarm signal triggered by the tilt alarm sensor is suppressed.

If the DWA battery is discharged, all functions remain operational; the only difference is that the alarm cannot be triggered if the system is disconnected from the vehicle battery.

The duration of the alarm signal is approx. 26 seconds. During the alarm, an alarm tone sounds and the turn signals blink. The type of alarm tone can be set by an authorized BMW Motorrad retailer.

—with central locking system^{OE}



A triggered alarm signal can be canceled at any time by pressing the button **2** of the radio-operated key without deactivating the DWA.

If an alarm signal has been triggered while the motorcycle was unattended, the rider is notified accordingly by an alarm tone sounding once when the ignition is turned on. The indicator light in the instrument cluster then signals the reason for the alarm signal for one minute.

Light signals on indicator light:

- 1 blinks: Tilt sensor 1
- 2 blinks: Tilt sensor 2
- 3 blinks: Ignition is turned on using an unauthorized radio-operated key
- 4 blinks: DWA disconnected from vehicle battery
- 5 blinks: Tilt sensor 3

Deactivation

- Turning on the ignition (→ 65).
- » Turn signals flash once.
- » Confirmation tone sounds once (if programmed).
- » DWA is turned off.

—with central locking system^{OE}



- Press the button **1** on the radio-operated key once.

 If the alarm function is deactivated using the radio-operated key and the ignition is not turned on then, the alarm function will be reactivated automatically after approximately 30 seconds if Arm automatically is turned on.

- » Turn signals flash once.
- » Ground light lights up briefly.
- » Confirmation tone sounds once (if programmed).
- » DWA is turned off.◁

78 OPERATION

Adjusting the DWA

- Turning on the ignition (▶▶▶ 65).
- Go to the Settings, Vehicle settings menu, then select the Alarm system menu item.
- » The following adjustments are available:
 - Adapting Warning signal
 - Turning Tilt sensor on and off
 - Turning Arming tone on and off
 - Turning Arm automatically on and off

Possible settings

Warning signal: Set increasing and decreasing or intermittent alarm tone.

Tilt sensor: Activate the tilt sensor to monitor the tilt of the vehicle. The DWA anti-theft alarm system responds, for example, in the event of attempted wheel theft or towing.

 Deactivate the tilt sensor when transporting the vehicle to avoid triggering the DWA.

Arming tone: Confirmation alarm tone after activating/deactivating the DWA in addition to flashing turn indicators.

Arm automatically: Automatic activation of the alarm function when the ignition is turned off.

DYNAMIC TRACTION CONTROL (DTC)

Turning the DTC function on and off

- Turning on the ignition (▶▶▶ 65).
- Go to the Settings, Assist menu, then select the DTC menu item.
- Deactivate DTC to turn off Dynamic Traction Control DTC until the next time the ignition is turned on.



lights up.

- Activate DTC to turn on Dynamic Traction Control DTC. Alternative: turn the ignition off and on again.



goes out, in the event of incomplete self-diagnosis, the DTC indicator and warning light starts flashing.

- More detailed information on the Dynamic Traction Control (DTC) can be found in the Technology in detail chapter (▶▶▶ 169).

ELECTRONIC CHASSIS AND SUSPENSION ADJUSTMENT (D-ESA)

Dynamic ESA range of adjustment

The electronic Dynamic ESA chassis and suspension adjustment can automatically adapt your motorcycle to the vehicle load.

For more information on Dynamic ESA, see the "Technology in detail" chapter (▮▮▮ 171).

Adjusting damping

- Turning on the ignition (▮▮▮ 65).
- Go to the **Settings, Assist** menu, then select the **Damping** menu item.
- Select the desired damping setting.

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

 The damping setting remains unchanged even after the ignition has been turned off.

Adjusting the load

- Starting the engine (▮▮▮ 149).
- Go to the **Settings, Assist** menu, then select the **Load** menu item.

- Select the desired load setting.

 The load setting remains unchanged even after the ignition has been turned off.

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

The following message is displayed if no load setting is possible: **Action not possible. Engine needs to run.**

The following message is displayed if no load setting is possible due to excess speed: **Action not possible. Speed too high.**

RIDING MODE

Use

BMW Motorrad has developed riding scenarios for your vehicle from which you can select the one matching your situation:

- RAIN: Riding on wet roads.
- ROAD: Riding on dry roads.
- DYNAMIC: Brisk riding on dry roads.

80 OPERATION

The optimum interaction between engine characteristics, chassis and suspension adjustment and DTC control is provided for each of these scenarios.

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

Setting riding mode

- Turning on the ignition ( 65).



- Press button **1**.



The active riding mode **2** fades into the background and is displayed in pop-up **3**. The guide **4** shows how many riding modes are available.



- Press button **1** repeatedly until the desired riding mode is displayed.
 - » When the vehicle is at a standstill, the selected riding mode is activated after approx. 2 seconds.
 - » The new riding mode is activated while the vehicle is in motion under the following conditions:
 - The throttle grip is in idle position.

- Brake is not engaged.
- Cruise control is deactivated.
- » The riding mode that is set and its corresponding adjustments of engine characteristics, chassis and suspension adjustment and DTC control are retained even after the ignition is turned off.

CRUISE CONTROL

Displayed value while adjusting (Speed Limit Info not active)



The icon **1** for cruise control is displayed in the Pure Ride view and in the upper status line.

Displayed value while adjusting (Speed Limit Info active)



The icon **1** for cruise control is displayed in the Pure Ride view and in the upper status line.

Turning on cruise control



WARNING

Use of the cruise control in unfavorable road conditions

Accident hazard

- Do not use the cruise control in unfavorable road conditions, e.g. in snow, on ice, in torrential rain, in off-road use and on slippery surfaces.
- Do not use cruise control on roads with many curves.

82 OPERATION



- Slide switch **1** to the right.
» Button **2** is unlocked.

Saving the speed



- Briefly push button **1** forward.



Adjustment range of
cruise control (gear-de-
pendent)

9...137 mph (15...220 km/h)



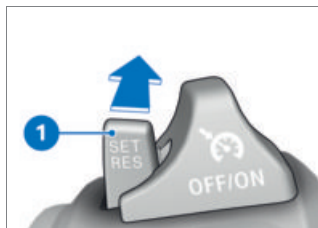
is displayed.

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

Accelerating



Depending on the set
speed unit in the instru-
ment cluster, the speed is in-
creased or reduced in km/h or
mph.



- Briefly push button **1** forward.
» The speed is increased by
1 mph (1.6 km/h) each time
the button is pressed.
- Press button **1** forward and
hold.
» The speed is increased in in-
crements of 5 mph (8 km/h).
» If button **1** is no longer
pressed, the speed reached is
maintained and saved.

Decelerating



Depending on the set
speed unit in the instru-
ment cluster, the speed is in-
creased or reduced in km/h or
mph.



- Briefly press button **1** backward.
- » The speed is decreased by 1 mph (1.6 km/h) each time the button is pressed.
- Press button **1** back and hold.
- » The speed is decreased in increments of 5 mph (8 km/h).
- » If button **1** is no longer pressed, the speed reached is maintained and saved.

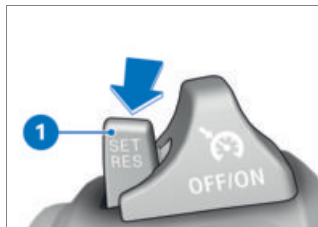
Deactivating cruise control

- Actuate the brakes or throttle grip (ease the throttle beyond the default setting) to deactivate the adaptive cruise control.

 If the clutch remains pulled for more than 1.5 seconds, cruise control is deactivated.

- » A message is shown in the display.

Resuming previous cruising speed



- Briefly push button **1** 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.

 is displayed.

Turning off cruise control



- Push switch **1** to the left.

84 OPERATION

» The system is turned off.



is hidden.

» Button **2** is locked.

HILL START CONTROL

Adjusting Hill Start Control Pro

- Turning on the ignition (III 65).
- Go to the **Settings, Assist** menu, then select the **HSC Pro** menu item.
- To turn on manual Hill Start Control Pro, select **Manual**.
 - » Hill Start Control Pro can be activated by firmly applying the handbrake or footbrake lever.
- To turn off Hill Start Control Pro, select **Off**.
 - » Hill Start Control Pro is deactivated.
- To turn on automatic Hill Start Control Pro, select **Auto**.
 - » Hill Start Control Pro can be activated by firmly applying the handbrake or footbrake lever.
 - » During brake actuation for approximately one second after the vehicle has come to a standstill and on a slope with at least a 3% gradient, Hill

Start Control Pro is activated automatically.

- » The selected setting is retained even after the ignition is turned off.



The icon **1** for Hill Start Control is displayed in the upper status line and in the Pure Ride view.

Using Hill Start Control Pro Requirement

Vehicle is at a standstill with the engine running.



ATTENTION

Failure of the drive-off assistant

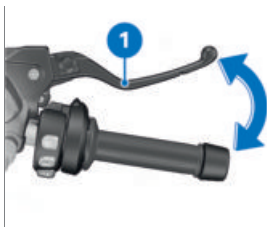
Risk of accident

- 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.

-  Hill Start Control Pro drive-off assistant should not be used for gradients of more than 40%.



- Apply brake lever **1** or foot-brake lever firmly and then release again.
- Alternatively, apply the brake for about one second after the vehicle has come to a standstill, with a gradient of at least 3%.

 is displayed in green.

- » Hill Start Control Pro is activated.
- To turn off Hill Start Control Pro, activate the brake lever **1** or footbrake lever again.

 If Hill Start Control Pro was deactivated using the brake lever, then automatic Hill Start Control is deactivated for the next 13.1 ft (4 m).

 is displayed in white.

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

 Hill Start Control Pro is deactivated automatically when driving off.

 disappears after the brake has been released completely.

- » Hill Start Control Pro is deactivated.
- For more information on Hill Start Control Pro, see Technology in detail ( 176) chapter

REVERSER

Requirements

The following prerequisites must be fulfilled to use the reverser:

- Motorcycle is standing.
- Engine is running.
- Brake is actuated.
- Transmission is in Neutral position.
- Side stand is folded in.
- Clutch is not pulled.

86 OPERATION

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 display **2** switches from N to R.
 - » The reverser can be used as soon as the R display stops blinking.

Using reverser



- Release brake.
- To reverse, press and hold starter button **1**.

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 brake is applied

R will blink in the display if reversing is canceled.

Deactivating reverser



- Press button **1**.

» Gear display switches from R to N.

CENTRAL LOCKING SYSTEM

—with central locking system^{OE}

Locking



- Turn on ignition and press button **1**.
- Alternative: Press the button **2** on the radio-operated key.
- » The storage compartments, the topcase and the cases are locked.



is displayed.

Unlocking



- Turn on ignition and press button **1**.
- Alternative: Press the button **2** on the radio-operated key.
- » The storage compartments, topcase and the cases are unlocked.
- » Ground light lights up briefly.
- » Once a lock has been locked manually it subsequently has to be unlocked manually as well.

Emergency unlocking

If the central locking system can no longer be unlocked, you can open the cases, topcase and storage compartments manually using the ignition key:

- Remove a case (➡ 93).
- Open a case (➡ 91).
- Using the storage compartment (➡ 97).
- Open the topcase (➡ 94).

88 OPERATION

HEATING

Operating heated grips

 The heated grips option can only be activated when the engine is running.

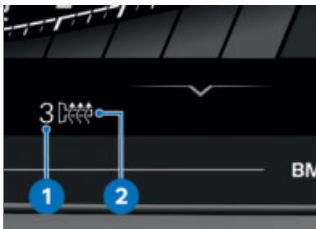
 The increase in power consumption caused by the heated grips can drain the battery if you are riding at low engine speeds. If the battery is inadequately charged, the heated grips are switched off to ensure starting capability.

- Starting the engine (➡ 149).
- Go to the Settings, Heating menu, then select the Heated handlebar grips menu item.



The grips have five-level heating. The fifth level is used for fast heating of the grips; the switch should then be switched back to one of the lower levels.

- Select the desired heating level.



The selected heating level **1** and the heated grip icon **2** are shown in the display.

Operating the rider's seat heater

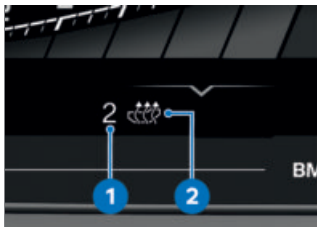
 Seat heating can be activated only when the engine is running.

- Starting the engine (➡ 149).
- Go to the Settings, Heating menu, then select the Seat heating menu item.



The rider's seat has five-level heating. The fifth level is used for fast heating of the seat; the switch should then be switched back to one of the lower levels.

- Select the desired heating level.



The selected heating level **1** and the seat heating icon **2** are shown in the display.

Operating the passenger seat heater

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

- Starting the engine ( 149).

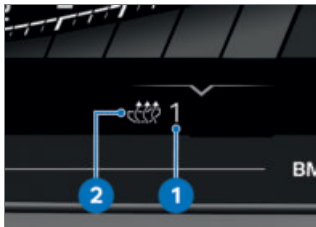


- Select the desired heating level with **1** switch.



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



The selected heating level **1** and the seat heating icon **2** are shown in the display.

WIND DEFLECTION WING



1 Wind deflection wing



WARNING

Adjusting the slipstream deflectors.

Accident hazard

- Only adjust the slipstream deflectors when the motorcycle is stationary.

By opening and closing the wind deflection wings, the flow of the air stream to the rider can be manipulated.



- A** Wind deflection wings closed: High level of wind and weather protection, maximum riding comfort.
- B** Wind deflection wings open: Increased flow of air stream to the rider, increased cooling effect at high outside temperatures.



If the wind deflection wings are open and the speed is high, swirls having a negative impact on the riding comfort can occur in the area of the helmet.

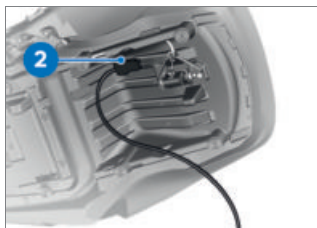
BMW Motorrad recommends closing the wind deflection wings before riding at high speeds.

SEAT

Removing the seat

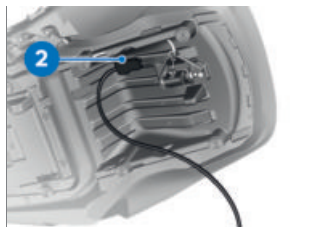


- Use the ignition key to unlock seat lock **1** and lift the rear of the seat.

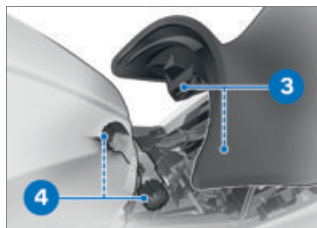


- Disconnect plug connection **2** of the seat heating and remove the seat.
- Place the seat, upholstered side down, on a clean surface.

Installing the seat



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



- Position the seat with mounts **3** into the stop pads **4** on the left and right.
- Lower the rear of the seat and engage the seat in the locking mechanism.

CASE

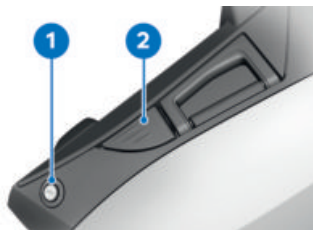
Opening a case

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

92 OPERATION



- Turn the key to the in the case lock to the position indicated by the dot.



- Press the lock cylinder **1** downward.
 - » The release lever **2** pops open.
- Pull the release lever all the way up and open the case lid.

Closing a case



- Pull release lever **2** all the way up.
- Close case lid and press down. Ensure that nothing gets trapped between the 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.

- Press release lever **2** down until it snaps in.
- Turn key to **LOCK** position in case lock and remove.

Removing a case



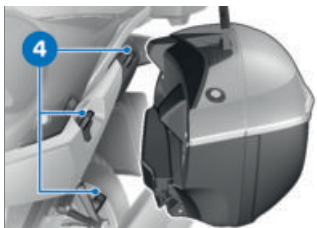
- Turn key to **RELEASE** position in case lock.
» Carrying handle pops out.



- Pull carrying handle **3** upward as far as possible.
» Case is released and can be removed.

Attaching a case

- Fold the carrying handle up to the stop.



- Insert case in the brackets **4**.



- Press the carrying handle **3** down until it snaps in.
- Turn key to **LOCK** position in case lock and remove.

Maximum load and maximum speed

Observe maximum payload and maximum speed.

The following values apply for the combination described here:

94 OPERATION

	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

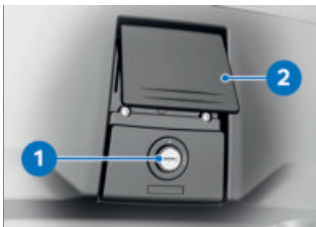
Opening the topcase

—with central locking system^{OE}

- Open the central locking system if necessary. ◁



- Turn the key in the topcase lock to the position of the dot and remove it.



- Press the lock cylinder **1** downward.
 - » The release lever **2** pops open.
- Pull the release lever **2** all the way up and open the topcase lid.

Closing the topcase



- Pull release lever **2** all the way up.
- Close the topcase lid and hold it down. Ensure that nothing gets trapped between the lid and case.

 The topcase can also be locked if the lock is in the **LOCK** position. Under such cir-

cumstances, ensure that the vehicle key is not in the topcase.

- Press release lever **2** down until it snaps in.
- Turn key in topcase lock to the **LOCK** position and remove.

Remove topcase

- Remove the seat (▮▮▮ 91).



- Disconnect the 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 the slide latch **2** outward and hold it in this position.
- Turn the rotary fastener **3** in arrow direction **RELEASE**.
» Release warning **4** is visible.
- Close topcase.



- Raise the rear of the topcase and pull it off the luggage rack.
- Install the seat (▮▮▮ 91).

Mount topcase

- Remove the seat (▮▮▮ 91).

96 OPERATION

- If applicable, empty the topcase and lift out the bottom mat.



- Set the topcase on the luggage rack.
- Open the topcase (→ 94).



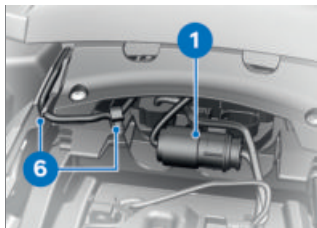
- Turn rotary fastener **3** as far as it will go in **LOCK** arrow direction while pressing down on the back edge of the topcase.
- » Release warning **4** is no longer visible.

If the release warning is still visible the topcase is not correctly secured.

- Make sure that the topcase is correctly seated on the luggage rack.



- Route the connecting cable forward in cable guide **5**.



- Work the cable into position at the positions **6**.
- Connect plug connection **1**.
- Install the seat (→ 91).

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)	

STORAGE COMPARTMENTS

Using the storage compartment



ATTENTION

High temperatures in the storage compartments, especially in summer

Damage to objects housed here, particularly electronic devices such as mobile phones

- Do not place objects that are sensitive to heat in the storage compartment during the summer.
- Ask the manufacturer about possible limits of use and observe them.



ATTENTION

Vibrations during riding

Damage to stored mobile phones

- Make sure that the stored mobile phone is suitable for use on the motorcycle. To do so, ask the manufacturer about limits of use and observe them.

—with central locking system^{OE}

- Open the central locking system if necessary.◁

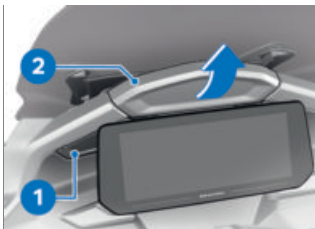


- Turn key in the storage compartment lock to the position indicated by the dot.
- Press the unlocked lock cylinder to open the flap.
- The description applies analogously to the storage compartment on the right side.

Operating the charging storage compartment

 The charging storage compartment can be opened only if the windshield is in the upper final position.

- Adjusting the windshield (140).



- Press the button **1** and open the flap **2** in the arrow direction.
 - To close, press the flap **2** firmly into the lock.
-  The charging storage compartment cannot be locked.



ATTENTION

High temperatures in the storage compartments, especially in summer

Damage to objects housed here, particularly electronic devices such as mobile phones

- Do not place objects that are sensitive to heat in the storage compartment during the summer.
- Ask the manufacturer about possible limits of use and observe them.

- Do not place objects that are sensitive to heat in the charg-

ing storage compartment during the summer.

Ventilation

Starting from a temperature of 86 °F (30 °C), a fan is turned on in the charging storage compartment to ensure sufficient air circulation. The fan switches off again as soon as the temperature in the charging storage compartment is below 77 °F (25 °C).

Charging a smartphone Requirement

Ignition is turned on.

- Open charging storage compartment.



- Fold retainer 1 upwards.



- Connect the smartphone 2 with the USB-C charging socket 3 and store it in the charging storage compartment with the display in the forwards direction.

 BMW Motorrad recommends the use of the BMW Motorrad USB cable for charging smartphones in the storage compartment. The space in the storage compartment may be insufficient for commercially available charging cables, which may be damaged.



- Fold retainer 1 downwards.

100 OPERATION

- Close flap **2**.

- » The smartphone is fastened in place.

Notes about use

The storage compartment is suitable for smartphones with dimensions up to a maximum of 6.2 in (158 mm) x 3.1 in (78 mm) x 0.39 in (10 mm). For small mobile phones that might not be held securely by the holder, BMW Motorrad recommends the use of a BMW Motorrad smartphone case.

Charge current

This is a 5 V USB-C charging socket providing a maximum charge current of 1.5 A (maximum charge power of 7,5 W).

Automatic shutoff

The USB-C charging socket is automatically switched off under the following conditions:

- To retain the starting capability of the vehicle if the battery voltage is too low.
- If the maximum load capacity specified in the technical data is exceeded.
- During the starting procedure.

TFT DISPLAY

05

GENERAL NOTES	104
PRINCIPLE	105
PURE RIDE VIEW	111
SPLIT SCREEN	112
GENERAL SETTINGS	113
BLUETOOTH®	115
WI-FI	117
MY VEHICLE	118
TRIP COMPUTER	121
NAVIGATION	122
MEDIA	124
TELEPHONE	125
PROGRAMMABLE MEMORY BUTTONS	126
DISPLAYING SOFTWARE VERSION	127
DISPLAYING LICENSE INFORMATION	127

GENERAL NOTES

Warnings



WARNING

Operation of a smartphone while riding

Risk of accident

- Observe the valid road traffic regulations.
- Do not use any smartphone while riding. Applications that do not involve operation are exempt, such as phone calls using a hands-free system.



WARNING

Distraction from traffic conditions and loss of control

Risk of accident through the use of integrated information systems and communication devices during the journey

- Operate these systems or devices only if the traffic situation allows.
- If necessary, stop and operate the system or devices at a standstill.

Connectivity functions

Connectivity functions include media, telephony and navigation. Connectivity functions can be used if the TFT display is connected with a mobile end device and a helmet (115). You can find more information on the Connectivity functions at:

bmw-motorrad.com/connectivity



If the fuel tank is between the mobile end device and the TFT display, the Bluetooth connection may be restricted. BMW Motorrad recommends storing the mobile end device above the fuel tank (e.g. in the jacket pocket).



Depending on the mobile end device, the scope of the Connectivity functions may be limited.

BMW Motorrad Connected App

With the BMW Motorrad Connected App, you can call up information about the vehicle and usage. To use some features such as navigation, the app must be installed on the mobile end device and be connected to the TFT display. The app starts the route guidance and

adapts the navigation. In addition to the Bluetooth connection, the Wi-Fi function must be activated on the mobile end device.

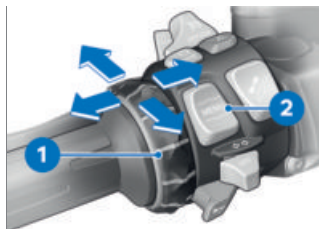
 On some mobile devices, e.g. with operating system iOS, the BMW Motorrad Connected App must be called up before using.

Currentness of this manual

After the editorial deadline, there may be updates to the TFT display. For this reason, some aspects of your vehicle may vary from the descriptions in this rider's manual. Updated information is available at bmw-motorrad.com/service.

PRINCIPLE

Operating elements



All content on the display is controlled by the Multi-Controller **1** and the rocker button MENU **2**.

Different functions are possible depending on the context.

Functions of the Multi-Controller

Turning Multi-Controller upwards:

- Move the cursor up in lists.
- Make settings.
- Increase volume.

Turning Multi-Controller downwards:

- Move the cursor down in lists.
- Make settings.
- Reduce volume.

Tilting the Multi-Controller to the left:

- Activate the function according to the operating feedback.

106 TFT DISPLAY

- Activate function to the left or back.
- After settings, return to menu view.
- In the menu view: move up one hierarchy level.
- In the *My vehicle* menu: Scroll to the next menu screen.
- In the Pure Ride view: Browse to the previous split screen display.

Tilting the Multi-Controller to the right:

- Activate the function according to the operating feedback.
- Confirm selection.
- Confirm settings.
- Browse to the next menu step.
- Scroll to right in lists.
- In the *My vehicle* menu: Scroll to the next menu screen.
- In the Pure Ride view: Browse to the next split screen display.

Rocker button MENU functions

 Navigation instructions are displayed as a dialog if the *Navigation* menu has not been called up. Operation of the MENU rocker button is temporarily restricted.

Briefly press the MENU up:

- In the menu view: move up one hierarchy level.
- In the Pure Ride view: Change display for rider info. status line.

MENU long press up:

- In the Menu view: Open Pure Ride view.

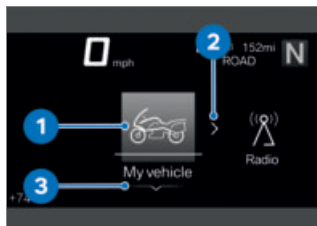
MENU short press down:

- Change a hierarchy level down.
- No function when lowest hierarchy level is reached.

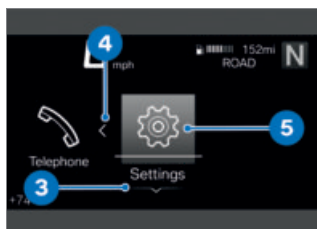
MENU long press down:

- Return to the last menu, after a menu change has been previously carried out by long press of the rocker button MENU at the top.

Operating instructions in the main menu



The operating instructions indicate whether and which interactions are possible.

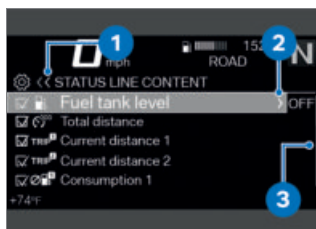


Meaning of the operating instructions:

- Operating instructions **1**: The left end has been reached.
- Operating instructions **2**: You can browse to the right.
- Operating instructions **3**: You can browse down.
- Operating instructions **4**: You can browse to the left.
- Operating instructions **5**: The right end has been reached.

Operating instructions in submenus

In addition to the operating instructions in the main menu, there are additional operating instructions in submenus.



Meaning of the operating instructions:

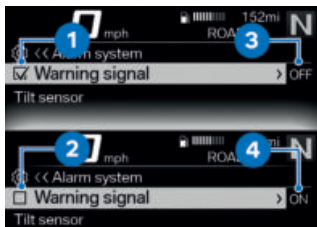
- Operating instructions **1**: The current display is in a hierarchical menu. One icon indicates one submenu level. Two icons indicate two or more submenu levels. The color of the icon changes depending on whether there is an option to return to the top.
- Operating instructions **2**: You can go to another submenu level.
- Operating instructions **3**: There are more entries than can be displayed.

108 TFT DISPLAY

Show Pure Ride view

- Press and hold the top MENU rocker button.

Turning functions on and off

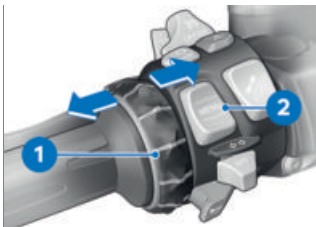


Some menu items are preceded by a box. The box indicates whether the function is turned on or off. Action icons after the menu items illustrate what is switched by briefly tilting the Multi-Controller to the right.

Examples for turning on and off:

- Icon **1** indicates that the function is turned on.
- Icon **2** indicates that the function is turned off.
- Icon **3** indicates that the function can be turned off.
- Icon **4** indicates that the function can be turned on.

Go to the menu



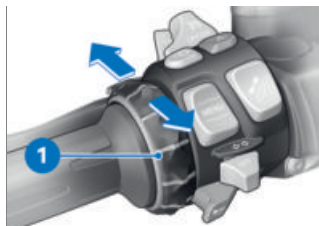
- Show Pure Ride view (108).
- Briefly press button **2** downward.

You can go to the following menus:

- My vehicle
- Radio
- Navigation
- Media
- Telephone
- Settings

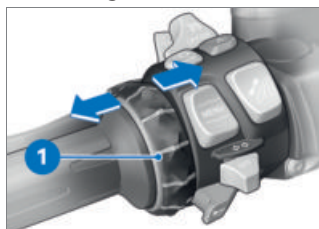
- Briefly press the Multi-Controller **1** to the right repeatedly until the desired menu item is highlighted.
- Briefly press button **2** downward.

Moving the cursor in lists



- Go to the menu (➡ 108).
- To move the cursor down in lists, turn the Multi-Controller 1 down until the desired entry is highlighted.
- To move the cursor up in lists, turn the Multi-Controller 1 up until the desired entry is highlighted.

Confirming the selection



- Select desired entry.
- Press the Multi-Controller switch 1 briefly to the right.

Go to the last menu used

- In Pure Ride view: Press and hold the bottom of the MENU rocker button.
- » You go to the last used menu, which was exited by pressing and holding upwards.

Changing the display for rider info. status line

Requirement

The vehicle is stationary. The Pure Ride view is displayed.

- Turning on the ignition (➡ 65).
- » All of the information necessary for operating the vehicle on public roads is made available from the on-board computer (e.g. TRIP 1) and the travel on-board computer (e.g. TRIP 2) in the TFT display. The information can be displayed in the upper status line.
- Selecting content of upper status line (➡ 110).

110 TFT DISPLAY



- Press and hold button **1** to display the Pure Ride view.
- Press button **1** briefly to select the value in the upper status line **2**.

The following values can be displayed:



Total distance



Current distance 1



Current distance 2



Consumption 1 (average)



Consumption 2 (average)



Riding time 1



Riding time 2



Break 1



Break 2



Speed 1 (average)



Speed 2 (average)



Tire pressure



Fuel tank level

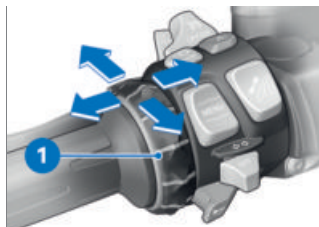


Range

Selecting content of upper status line

- Go to menu Settings, Display, Status line content.
- Turn on desired displays.
 - » It is possible to change between the selected displays in the upper status line. If no displays are selected, only the range is shown.

Making settings



- Select desired settings menu and confirm.
 - Turn the Multi-Controller **1** down until the desired setting is highlighted.
 - If operating instructions are present, tilt the Multi-Controller **1** to the right.
 - If operating instructions are present, tilt the Multi-Controller **1** to the left.
- » The setting is saved.

Turning Speed Limit Info on or off

Requirement

The vehicle is connected to a compatible mobile end device. The BMW Motorrad Connected app is installed on the mobile end device.

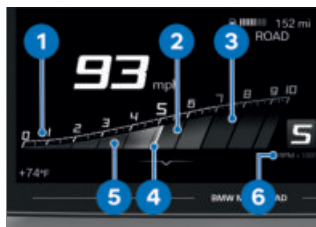
- Speed Limit Info displays the currently permitted maximum speed insofar as this information is provided by the

editor of the maps in the navigation system.

- Call up menu Settings, Display.
- Speed Limit Info Turn on or off.

PURE RIDE VIEW

Tachometer



- 1 Scale
- 2 Low engine speed range
- 3 High / red engine speed range
- 4 Needle
- 5 Drag pointer
- 6 Unit for tachometer: 1000 RPM

 The red engine speed range changes depending on the coolant temperature: The colder the engine, the lower the speed at which the red engine speed range begins. The warmer the engine, the higher the speed at which the red engine speed range begins.

112 TFT DISPLAY

When the operating temperature has been reached, the red engine speed range display will no longer change.

Range



The range **1** indicates how far you can ride with the remaining fuel. This distance is calculated based on average consumption and the remaining fuel quantity.

—When the vehicle is propped on its side stand, the resulting angle of inclination means that the sensor cannot register the fuel quantity correctly. For this reason, the range is only recalculated when the side stand is folded in.

—The range is output together with a warning after the fuel reserve level is reached.

—After refueling, the range is recalculated if the fuel quantity is greater than the fuel reserve.

—The calculated range is only an approximate figure.

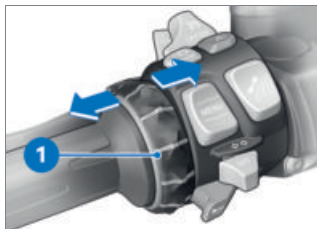
Upshift recommendation



The upshift recommendation in the Pure Ride view **1** or in the status line **2** signals the best time for an upshift from an economical perspective.

SPLIT SCREEN

Turning on the split screen and selecting a display



- Show Pure Ride view (108).
- Briefly press the Multi-Controller **1** to the left or right repeatedly until the desired display appears.

- Alternative: Press the Multi-Controller **1** to the right and hold it to return to the last selected display in the split screen.

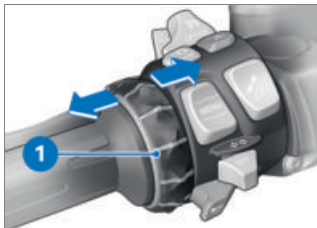
The following displays can be selected:

- ONBOARD COMPUTER
- TRIP COMPUTER
- Navigation
- MEDIA

Depending on the selected audio source, MEDIA or RADIO can be displayed.

- » The selected display remains even after the ignition is turned off.

Turning off split screen



- Show Pure Ride view (▮▮▮▮▶ 108).
- Briefly press the Multi-Controller **1** repeatedly until the split screen disappears.

- Alternative: Press the Multi-Controller **1** to the left and hold it.

GENERAL SETTINGS

Adjusting the volume

- Connect the rider's helmet and the passenger helmet (▮▮▮▶ 117).
- Increasing the volume: turn Multi-Controller upwards.
- Reducing the volume: turn Multi-Controller downwards.
- Mute: turn Multi-Controller all the way down.
- » When set to Mute, media playback is paused.

Setting the date

- Turning on the ignition (▮▮▮▶ 65).
- Go to menu Settings, System settings, Date and time, Set date.
- Set Day, Month, and Year.
- Confirm setting.

Adjusting the date format

- Call up menu Settings, System settings, Date and time, Date format.
- Select desired setting.
- Confirm setting.

114 TFT DISPLAY

Setting the clock

- Turning on the ignition (▶▶▶ 65).
- Go to menu **Settings**, **System settings**, **Date and time**, **Set time**.
- **Set Hour and Minute**.

Setting the time format

- Call up menu **Settings**, **System settings**, **Date and time**, **Time format**.
- Select desired setting.
- Confirm setting.

Setting the units of measurement

- Call up menu **Settings**, **System settings**, **Units**.
The following units of measurement can be set:
 - Pressure
 - Temperature
 - Consumption

Setting the language

- Call up menu **Settings**, **System settings**, **Language**.
The following languages can be set:
 - German
 - English (UK)
 - English (US)
 - Spanish
 - French
 - Italian

- Dutch
- Polish
- Portuguese (Brazil)
- Portuguese (Portugal)
- Turkish
- Romanian
- Russian
- Ukrainian
- Thai
- Chinese
- Japanese
- Korean

Adjusting brightness

- Go to **Settings**, **Display**, **Brightness menu**.
- Adjust brightness.
 - » The brightness of the display is dimmed to the set value if ambient brightness falls below a defined value.
 - » If the display of the TFT display is faulty, the troubleshooting chart in the **Technical Data** chapter may provide assistance. (▶▶▶ 221)

Resetting all settings

- All settings in the **Settings** menu can be reset to the factory settings.
- Call up menu **Settings**.
- Select **Reset all** and confirm.

The settings of the following menus are reset:

- Vehicle settings
- System settings
- Connections
- Display
- Information

» Existing Bluetooth connections are not deleted.

BLUETOOTH®

Short-range radio technology

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

Although Bluetooth is designed for establishing robust connections over short distances, faults are possible as with any other wireless technology. Connections can be subject to interference, can be briefly interrupted or lost entirely. Especially when several devices are operated in one Bluetooth network, there is no guarantee for smooth operation in every situation.

Possible sources of interference:

- Interference fields due to transmission towers and similar.
- Devices with incorrectly implemented Bluetooth radio standard.
- By nearby Bluetooth-capable devices.
- Shielding by metals or bodies.

Pairing

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

 On some mobile devices, e.g. with operating system iOS, the BMW Motorrad Connected App must be called up before using.

During the pairing process, the TFT display searches for other Bluetooth-compatible devices within its reception range. The conditions that have to be satisfied before the speaker can be paired with another device are as follows:

116 TFT DISPLAY

- The Bluetooth function of the device must be activated
- The device must be "visible" to others
- Other Bluetooth-capable devices that are not to be connected must be OFF (e.g. mobile phones and navigation systems).

Please consult the operating instructions for your communication system.

Pairing

- Call up menu **Settings, Connections**.
- » Bluetooth connections can be established, managed, and deleted in the **CONNECTIONS** menu. The following Bluetooth connections are displayed:
- Mobile device
- Rider's helmet
- Passenger helm.

The connection status for mobile end devices is displayed.

Connecting a mobile end device

- Pairing (▶▶▶ 116).
- Activate the Bluetooth function of the mobile end device (see operating instructions for the mobile end device).

- Select **Mobile device** and confirm.

- Select **Pair new mobile device** and confirm.

Mobile end devices are searched for.



blinks in the lower status line during pairing.

Visible mobile end devices are displayed.

- Select the mobile end device and confirm.
- Observe the instructions for the mobile end device.
- Confirm that the codes match.
- » The connection is established and the connection status is updated.
- » If the connection cannot be established, the troubleshooting chart in the Technical data chapter may provide assistance. (▶▶▶ 220)
- » Depending on the mobile end device, telephone data is transferred to the vehicle automatically.
- » Telephone data (▶▶▶ 126)
- » If the phone book is not displayed, the troubleshooting chart in the Technical data chapter may provide assistance. (▶▶▶ 222)
- » If the Bluetooth connection does not work as expected,

the troubleshooting chart in the Technical data chapter may provide assistance. (▮▮▮▮ 221)

Connect the rider's helmet and the passenger helmet

- Pairing (▮▮▮▮ 116).
- Select Rider's helmet or Passenger helm. and confirm.
- Show the communication system of the helmet.
- Select Pair new rider's helmet or Pair new passeng. helmet and confirm. Helmets are searched for.



blinks in the lower status line during pairing.

Visible helmets are displayed.

- Select helmet and confirm.
- » The connection is established and the connection status is updated.
- » If the connection cannot be established, the troubleshooting chart in the Technical data chapter may provide assistance. (▮▮▮▮ 220)
- » If the Bluetooth connection does not work as expected, the troubleshooting chart in the Technical data chapter may provide assistance. (▮▮▮▮ 221)

Deleting connections

- Call up menu Settings, Connections.
- Select Delete connections.
- To delete an individual connection, select the connection and confirm.
- To delete all connections, select Delete all connections and confirm.

WI-FI

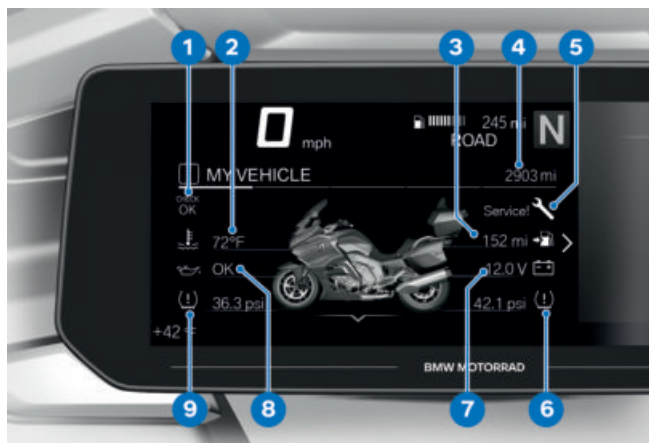
WiFi connection

A WiFi connection is used to transmit the map view from a mobile phone to the TFT display. To enable the full scope of function, WiFi must be enabled on the mobile phone. More information on activating WiFi can be found in the operating instructions of the mobile phone. Depending on local conditions, such as a high number of WiFi networks, temporary limitations and connection dropouts can occur.

118 TFT DISPLAY

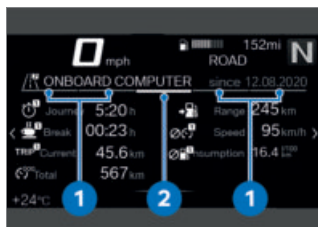
MY VEHICLE

START SCREEN



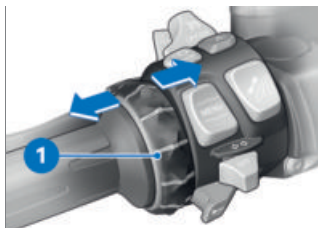
- 1 Check Control display
Layout (➡ 31)
- 2 Coolant temperature
(➡ 45)
- 3 Range (➡ 112)
- 4 Odometer
- 5 Service display (➡ 59)
- 6 Rear tire pressure (➡ 47)
- 7 Voltage of the vehicle
electrical system
(➡ 201)
- 8 Engine oil level (➡ 44)
- 9 Front tire pressure
(➡ 47)

Operating instructions



- Operating instructions 1:
Tabs that show how far to the left or right you can browse.
- Operating instructions 2: Tab that shows the position of the current menu screen.

Browsing through menu screens



- Go to the My vehicle menu.
- To browse to the right, briefly push the Multi-Controller 1 to the right.
- To browse to the left, briefly push the Multi-Controller 1 to the left.

The following displays are included in the My vehicle menu:

- MY VEHICLE
- ONBOARD COMPUTER
- TRIP COMPUTER
- TIRE PRESSURE
- SERVICE REQUIREMENTS
- CHECK CONTROL MESSAGE (if present)
- Further information on the Check Control messages can be found in the Displays (►► 31) chapter.



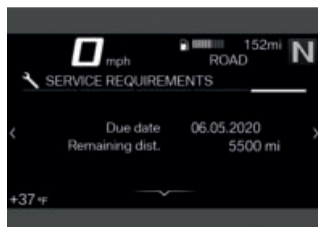
Check-Control messages are dynamically added to the menu screens in the My vehicle menu as additional tabs.

On-board computer and travel on-board computer

The ONBOARD COMPUTER and TRIP COMPUTER menu windows show the vehicle and journey data, e.g. average values.

120 TFT DISPLAY

Service requirement



If the time remaining until the next service is less than a month, or if the next service is due within 620 mi (1000 km), a white Check Control message is displayed.

TRIP COMPUTER

Calling up the on-board computer

- Go to My vehicle menu.
- Scroll to the right until the ONBOARD COMPUTER menu panel is displayed.
- » As an alternative, the on-board computer can also be displayed on the split screen.
- Turning on the split screen and selecting a display (112).

Resetting the on-board computer

- Calling up the on-board computer (121).
- Press MENU rocker button down.
- Select Reset all values or Reset individual values and confirm.

The following values can be reset individually:



Break



Journey



Current



Speed



Consump.

Calling up the travel on-board computer

- Calling up the on-board computer (121).
- Scroll to the right until the TRIP COMPUTER menu panel is displayed.
- » As an alternative, the travel on-board computer can also be displayed on the split screen.
- Turning on the split screen and selecting a display (112).

Resetting the travel on-board computer

- Calling up the travel on-board computer (121).
- Press MENU rocker button down.
- Select Automatic reset or Reset all values and confirm.
- » If Automatic reset is selected, the travel on-board computer is automatically reset if at least 6 hours have passed since the ignition was switched off and the date has changed.

122 TFT DISPLAY

NAVIGATION

Warnings



WARNING

Operation of a smartphone while riding

Risk of accident

- Observe the valid road traffic regulations.
- Do not use any smartphone while riding. Applications that do not involve operation are exempt, such as phone calls using a hands-free system.



WARNING

Distraction from traffic conditions and loss of control

Risk of accident through the use of integrated information systems and communication devices during the journey

- Operate these systems or devices only if the traffic situation allows.
- If necessary, stop and operate the system or devices at a standstill.

Prerequisite

The vehicle is connected to a compatible mobile end device via Bluetooth.

The BMW Motorrad Connected App is installed on the mobile end device.



On some mobile devices, e.g. with operating system iOS, the BMW Motorrad Connected App must be called up before using.

Show map view Requirement

WiFi is activated on the mobile end device paired via Bluetooth.

- Connecting a mobile end device (► 116).
- Call up the BMW Motorrad Connected app.
- Go to menu *Navigation*.



If the *NAVIGATION* view has been selected in the split screen and you go to the *NAVIGATION* menu at the same time, the split screen view is ended automatically, and the navigation is displayed on the entire TFT display.

Entering destination address

- Connecting a mobile end device (➡ 116).
- Go to the BMW Motorrad Connected app and start the guidance.
- Go to the Navigation menu.
- » Active destination guidance is displayed.
- If Wi-Fi is not activated on the mobile end device, route guidance is displayed as an arrow view.
- » If the destination route guidance is not displayed, the troubleshooting chart in the Technical data chapter may provide assistance. (➡ 222)

Select destination from most recent destinations

- Call up menu Navigation, Recent destinations.
- Select destination and confirm.
- Select Start route guidance.

Select destination from favorites

- The FAVORITES menu shows all destinations that have been saved as a favorite in the BMW Motorrad Connected app. It is not possible

to create new favorites on the TFT display.

- Go to the Navigation, Favorites menu.
- Select destination and confirm.
- Select Start guidance.

Entering special destinations

- Special destinations, e.g. landmarks, can be displayed on the map.
- Call up menu Navigation, POIs.

The following locations can be selected:

- At current location
- At destination
- Along the route
- Select in which location you want to search for special destinations.

The following point of interest can be selected:

- Filling station
- Select special destination and confirm.
- Select Start route guidance and confirm.

Specifying route criteria

- Call up menu Navigation, Route criteria.

The following criteria can be selected:

- Route type

124 TFT DISPLAY

-Avoid

- Select desired Route type.
- Turn desired Avoid on or off.

The number of enabled avoidances is displayed in brackets.

Display route info

- Go to the Navigation, Settings menu, then select the Route info menu item. You can select between the following options:

-Destination

-Waypoint

- Select desired option.

» The remaining distance and time are displayed.

Editing guidance

- Call up menu Navigation, New destination.

You can select between the following destinations:

-Recent destinations

-Favorites

-POIs

- Select destination from one of the three destination categories.
- Select Edit route guidance in the destination entry.
- Select Add stop to add the selected destination as a waypoint.
- Select Start guidance to overwrite the current destination.

Ending route guidance

- Call up menu Navigation, Active route guidance.
- Select End route guidance and confirm.

Switching spoken instructions on or off

- Connect the rider's helmet and the passenger helmet ( 117).
- The navigation can be read out by a computer voice. To do this, the Spoken instructions must be turned on.
- Call up menu Navigation, Active route guidance.
- Turn Spoken instructions on or off.

Repeating the last spoken instruction

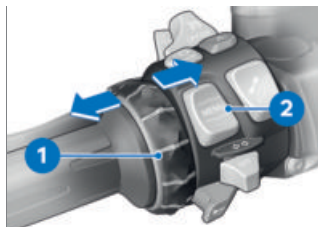
- Call up menu Navigation, Active route guidance.
- Select Current instruction and confirm.

MEDIA

Prerequisite

The vehicle is connected to a compatible mobile end device and a compatible helmet.

Controlling audio playback



- Go to the **Media** menu.

 BMW Motorrad recommends setting the volume for media and conversations via mobile end devices to the maximum before starting a journey.

- Adjusting the volume ( 113).
- Selecting next title in the player: Briefly tilt the Multi-Controller **1** to the right.
- Select last title or beginning of the current title in the player: Briefly tilt the Multi-Controller **1** to the left.
- Go to context menu: Press button **2** downward.

 Depending on the mobile end device, the scope of the Connectivity functions may be limited.

- » The following functions can be used in the context menu:
 - Playback or Pause.

- For search and playback, select the category **Now playing**, **All artists**, **All albums** or **All tracks**.
- Select **Playlists**.

In the **Audio settings** sub-menu, you can adjust the following settings:

- Turn **Shuffle** on or off.
 - Repeat: **Select**: Off, One (current title) or All.
 - Select **Output device**.
 - Select **Sound profile**.
 - Adjust **Equalizer**.
- » If the playlist is not displayed on the TFT display, the troubleshooting chart in the Technical data chapter may provide assistance. ( 222)

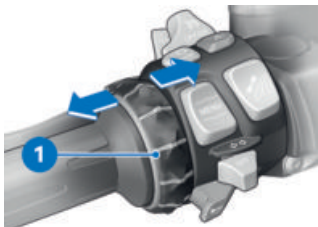
TELEPHONE

Prerequisite

The vehicle is connected to a compatible mobile end device and a compatible helmet.

126 TFT DISPLAY

Making a phone call



- Go to the Telephone menu.



When a call comes in, a pop-up opens.

- Accepting a call: Tilt the Multi-Controller 1 to the right.
- Rejecting a call: Tilt the Multi-Controller 1 to the left.
- Ending a call: Tilt the Multi-Controller 1 to the left.

Mute

The microphone in the helmet can be muted during active conversations.

Conversations with multiple users

A second telephone call can be accepted during a conversation. The first conversation will be put on hold. The number of active telephone calls is displayed in the Telephone menu. It is possible to switch between two conversations.

Telephone data

Depending on the mobile end device, telephone data is transferred to the vehicle automatically after pairing (➡ 115).

Phone book: List of contacts saved in the mobile end device

Call list: List of telephone calls with the mobile end device

Favorites: List of favorites saved in the mobile end device

PROGRAMMABLE MEMORY BUTTONS

Operating the programmable memory buttons



You can assign individual functions to the programmable memory buttons.

- Press a button lightly.
 - » The assigned function is shown in the TFT display.
- Press a button firmly.
 - » The assigned function is executed.

Assigning functions

- In the Settings, System settings, Favourite button menu, select.
 - Select the desired programmable memory button from Favorite button 1 to Favorite button 4.
 - Select the desired function or Not assigned.
- » The function is assigned to the respective programmable memory button.

DISPLAYING SOFTWARE VERSION

- Call up menu Settings, Information, Software version.

DISPLAYING LICENSE INFORMATION

- Call up menu Settings, Information, Licenses.

AUDIO SYSTEM

06

RADIO	130
AUDIO SETTINGS	132
PLAYER	134
SATELLITE RADIO	134
HD RADIO RECEPTION	136
AUDIO PLAYBACK VIA HELMET	136

RADIO

Starting

- Turning on the ignition ( 65).

 After the ignition is switched on, the radio menu will be available after a short time.

Turning the radio on and off

- Call up Radio menu and turn Radio on or off.
- » If the radio is turned off, Radio off is displayed in the lower status line.

Selecting a source

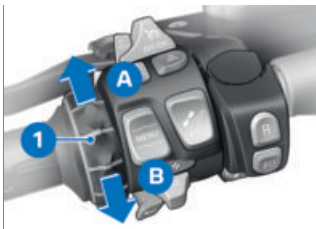
- Select the Source menu. Select Favorites, AM, FM or SiriusXM. For the AM and FM wave ranges, the HD radio option exists (availability may vary by country).

Selecting a station

- Selecting a source (130).
- Select the FM stations menu.

 For each selectable source, there is a specific station menu.

 For HD Radio stations, the subprograms can be selected using the station list.

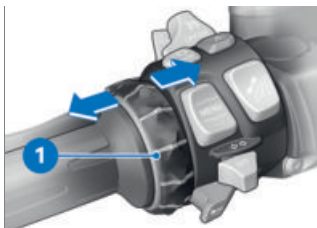


- Turn the Multi-Controller **1** in the **A** or **B** direction to browse through the stations.
- Press the Multi-Controller to the right to select the desired station.

Selecting frequency

- Go to Source menu, select AM or FM.
- In the AM options or FM options menu, select the Frequency setting using the menu item Search selection.
- Switch to the player.

 For HD Radio stations, the subprograms can be selected within a frequency range.



- Briefly press Multi-Controller 1 to the left or right to set the desired frequency using the frequency band.

Saving a station

- Select a station or frequency from the frequency band.
- Press the rocker button MENU downward.
- Select the `Add as favorite` menu item.
- » The previously selected station appears on the Favorites list.



- Turn the Multi-Controller 1 in the **A** or in the **B** direction

to select the desired memory location.

- » The current assignment of the memory location is displayed.
- » If a station is already saved in the selected memory location, a message opens. The following selection options are available:
 - Select `Cancel` to refrain from saving the selected station.
 - Select `Save` in order to overwrite the memory location.
- » The station list reopens.

Favorites list

Selected stations or frequencies can be added as favorites. A total of up to 20 favorites can be saved.

There are two ways to add favorites:

Version 1

- Selecting a station (130).
- Select the `Add as favorite` menu item.
- » The previously selected station appears on the Favorites list.
- Press Multi-Controller to the right.
- » The selected station has been saved as a favorite.

132 AUDIO SYSTEM

Version 2

- Selecting a station (▮▮▮▮ 130).
- Press Multi-Controller to the right once more.
 - » The Favorites list opens.
- Press Multi-Controller to the right once more.
 - » The selected station has been saved as a favorite.
 - » The view automatically switches back to the stations list.

Deleting a Favorites list Requirement

A Favorites list with at least one entry exists.

- Select **Delete list of favorites** at the bottom end of the Favorites list.
 - » A dialog opens.
- Confirm deletion.
 - » The Favorites list is deleted.

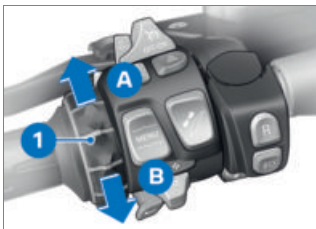
AUDIO SETTINGS

Loudspeakers and Bluetooth

The audio system plays back sound through either the vehicle's speakers, an output device connected by Bluetooth or the helmet. Should the Bluetooth function not be offered in certain countries, then audio playback is only possible via the loudspeakers.

If a BMW Motorrad communication system with Bluetooth radio standard 2.0 or higher is connected, the volume control can be operated by Multi-Controller (▮▮▮ 136). If devices are paired that are not compatible with Bluetooth radio standard 2.0 or higher, the volume cannot be controlled by Multi-Controller.

Setting the volume



- Turn the Multi-Controller **1** in the **A** direction to increase the volume.
- Turn the Multi-Controller **1** in the **B** direction to reduce the volume.
 - » The volume is automatically set for the selected output device.

Selecting an output device

- Call up the **Media, Audio settings** menu and select **Output device**.

- » The following settings are available:
 - Speakers: speaker for audio playback selected.
 - Helmet: helmet or other Bluetooth-capable output device for audio playback is selected.
- » The default setting is `Speakers`.

Selecting a sound profile

- Go to the `Radio, Audio` settings menu and select the `Sound profile` menu item.
- » The following settings are available:
 - Bass-Boost
 - Treble-Boost
 - Voice
 - Studio
 - Balanced
- » The default setting is `Bass-Boost`. All sound profiles take effect only if `Speakers` is selected.
- » For an optimal sound experience without a helmet, the `Studio` sound profile should be selected. All other sound profiles are optimized for playback while a helmet is worn.

Adjusting sound settings

- Go to the `Radio, Audio` settings menu, then select the `Equalizer` menu item.
- » The following settings are available:
 - Treble: Reduce (-1...-5) or increase (+1...+5) treble
 - Bass: Reduce (-1...-5) or increase (+1...+5) bass
 - Volume control: Turn off speed-dependent volume boost (1) or select a level (2...4).
- Select the desired menu item, make the adjustment and exit the menu.
- » The sound settings take effect only if `Speakers` is selected as the output device.

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 four levels. Level 4 corresponds to maximum increase. If level 1 is selected, the volume boost feature is deactivated. Automatic volume adjustment only functions if `Speakers` is selected as the output device.

PLAYER

Shown in display

The following information is displayed by the view in the TFT display (depending on country):

- Selected source (➡ 130).
- Transmitter (➡ 130) or (➡ 135).
- Frequency
- Artist
- Title
- Frequency band

Changing the station or frequency

Requirement

A frequency can be selected only in the AM or FM frequency bands, and Frequency must be selected in the options.

- Selecting a source ( 130).
- Press the Multi-Controller to the right or left to select the desired station or the desired frequency.



 In order to be able to change the frequency, the Frequency menu item must be selected in the AM options or FM options menu.

SATELLITE RADIO

Availability

The functions for the reception of satellite radio described in this chapter are only offered in countries in which the reception of *SiriusXM* is possible.

Subscribing to a station

To listen to a station, it must first be subscribed to. Subscribing to a station can generate costs not borne by BMW Motorrad.

You can find more information
on the available transmitters at
siriusxm.com.

Activating stations

A station is activated by phone by calling the phone number 1-888-539-7474. In addition, the Radio ID is required.

Calling up information

The following list entry is displayed under Radio, SiriusXM information:

Radio ID: XXXXXXXXXXXX

For support, please contact SiriusXM Customer Care at: 1-888-539-7474

Signal strength

If the signal is not strong enough, **SiriusXM No signal.** is displayed.

Selecting a category and station

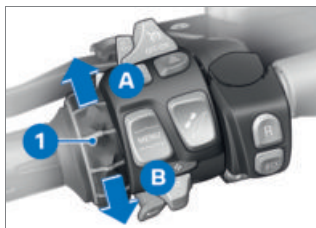
- If the category needs to be changed, go to the **SiriusXM station menu** and select **Category**.
- » The following options are available for selection:
 - **All categories:** Shows all stations subscribed to
 - **Category:** For example, rock
 - **Unsub. channel:** Shows all stations not subscribed to
- Select the desired station.



- Turn the Multi-Controller **1** in the **A** or **B** direction to select the desired station from the selected category.

Saving a station

- Selecting a category and station (➡ 135).
- Press the Multi-Controller to the right to select a station.
- Press the Multi-Controller to the right once more and select **Add as favorite**.
- » The Favorites list opens.



- Turn the Multi-Controller **1** in the **A** or **B** direction to select the desired memory location.
- » The current assignment of the memory location is displayed.
- » If a station is already saved in the selected memory location, a message opens. The following selection options are available:
 - Select **Cancel** to refrain from saving the selected station.
 - Select **Save** in order to overwrite the memory location.
- » The Favorites list closes automatically and redirects the user to the previous view.

136 AUDIO SYSTEM

Playing stored station

Requirement

Favorites must be selected as Source.

- Select the Favorites menu item.
- » The Favorites list is displayed.
- Press the Multi-Controller to the right to select the desired station.

System messages

Under certain circumstances, the following messages are shown:

SiriusXM subscription updated.

The subscription is updated.

SiriusXM Channel not subscribed.

The station has not been subscribed to.

SiriusXM No signal.

The SiriusXM service was interrupted due to a weak signal.

HD RADIO RECEPTION

The signal strength of HD Radio stations may vary depending on the location. If the digital signal is not strong enough, there will be an automatic switchover to the analog signal. During the switchover, a

short interruption may occur. If AM has been selected as the source, significantly inferior sound quality can be heard after the switchover.

As soon as the digital signal is available again, there will be another automatic switchover back to the HD Radio station.

AUDIO PLAYBACK VIA HELMET

Connecting the rider's helmet



If a rider's helmet with BMW Motorrad communication system is connected using Bluetooth® radio standard 2.0:

- The volume of the helmet speaker can be adjusted directly using the Multi-Controller **1**.
- Changing the volume in the helmet will be reflected in the display.

The volume for helmet 2 cannot be adjusted with the Multi-Controller.

SETTING

07

MIRRORS	140
WINDSHIELD	140
CLUTCH	141
BRAKES	141

140 SETTING

MIRRORS

Adjusting the mirrors



- Move mirror into desired position by pressing it lightly.

WINDSHIELD

Adjusting the windshield

- Turning on the ignition (🔌 65).
- » When riding off, the windshield automatically moves to its last position before the ignition was turned off.



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

- Turning off the ignition (🔌 65).
- » The windshield automatically moves to the lower end position.
- Ensure clearance of the windshield.

Windshield does not automatically move to the lower end position:

- Turning on the ignition (🔌 65).
- Move windshield to the upper and lower end positions using button **1**.
- Turning off the ignition (🔌 65).
- » The adjustment range 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 jam protection cannot be ensured if a windshield that has not been approved by BMW Motorrad has been installed.

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

CLUTCH

Adjusting the clutch lever



WARNING

Modified position of the clutch fluid reservoir

Air in the clutch system

- Do not turn the handlebar fitting on the handlebar.

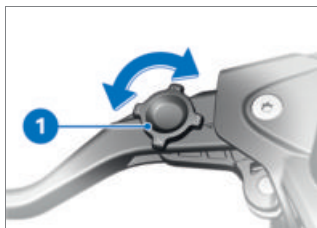


WARNING

Adjusting the clutch lever while driving

Accident hazard

- Adjust the clutch lever when the motorcycle is stationary.



- 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.

» Adjustment options:

- Position 1: Minimum distance between handlebar grip and clutch lever
- Position 4: Maximum distance between handlebar grip and clutch lever

BRAKES

Adjusting the brake lever



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.

142 SETTING



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

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

» Adjustment options:

- Position 1: Minimum distance between handlebar grip and brake lever
- Position 4: Maximum distance between handlebar grip and brake lever

RIDING

08

SAFETY INSTRUCTIONS	146
REGULAR CHECK	148
STARTING	149
BREAKING IN	152
SHIFTING	153
BRAKES	153
PARKING THE MOTORCYCLE	155
REFUELING	156
SECURING MOTORCYCLE FOR TRANSPORTATION	161

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.

Loading correctly



WARNING

Reduced riding stability caused by overloading and uneven loading

Accident hazard

- Do not exceed the gross weight limit and observe the loading information.
- Make sure that weight is uniformly distributed between right and left.
- Pack heavy pieces of luggage and cargo as low and as close

to the center of the motorcycle as possible.

- Observe the maximum payload and maximum speed with cases; see also the Chapter "Operation" (► 93).
- Observe the maximum payload and maximum speed with topcase; see also the Chapter "Operation" (► 97).

Speed

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

- Unevenly distributed load
- Loose clothing
- Insufficient tire pressure
- Tire tread in poor condition
- 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.

Risk of burning



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.



WARNING

Opening the radiator cap

Risk of burning

- Do not open the radiator cap when it is hot.
- Check the coolant level exclusively at the expansion tank and top up if necessary.

148 RIDING

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.

Always before riding off

- Check operation of the brake system (185).
- Check operation of the lighting and signal system.
- Check clutch function (190).
- Check tire tread depth (192).
- Check tire pressure (191).
- Check that the case, topcase and luggage are firmly secured.

At every third refueling stop

- Check engine oil level (183).
- Check front brake pad thickness (185).
- Check rear brake pad thickness (186).
- Check front brake fluid level (188).
- Check rear brake fluid level (189).

STARTING**Starting the engine**

- Turning on the ignition (65).
- » Pre-Ride-Check is carried out. (150)
- » ABS self-diagnosis is performed. (150)
- » DTC self-diagnosis is performed. (151)

- Engage Neutral, or pull back the 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 start and at low temperatures: Pull clutch and open 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.

150 RIDING

» Consult the troubleshooting chart if the engine refuses to start. (▶ 220)

Pre-Ride-Check

After the ignition is turned on, the instrument cluster performs a test of the indicator and warning lights – what we call the "Pre-Ride-Check". Starting the engine before the test is completed will cancel the remainder of the test.

Phase 1

All indicator and warning lights are turned on.

After a longer standstill of the vehicle, an animation is displayed during the system start.

Phase 2

The general warning light changes from red to yellow.

Phase 3

All of the indicator and warning lights that have been turned on are turned off in reverse order.

If one of the indicator and warning lights was not turned on:

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

ABS self-diagnosis

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

Phase 1

» Check of system components capable of diagnosis while vehicle is at a standstill.



flashes.

Phase 2

» Check of the wheel speed sensors while riding off.



flashes.

ABS self-diagnosis completed

» The ABS indicator and warning light extinguishes.



ABS self-diagnosis not completed

The ABS function is not available, as the self-diagnosis function has not been completed. (To check wheel speed sensors, the motorcycle must reach a minimum speed with engine running: min 3 mph (min 5 km/h))

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

- You may 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 a specialist workshop, preferably an authorized BMW Motorrad retailer.

DTC self-diagnosis

The self-diagnosis routine is determining whether BMW Motorrad DTC is ready for operation. The self-diagnosis runs automatically when you turn on the ignition.

Phase 1

- » Check of system components with diagnostic capability while the vehicle is at a standstill.



flashes slowly.

Phase 2

- » Checking system components with diagnostic capability while riding off.



flashes slowly.

DTC self-diagnosis completed

- » The DTC icon is no longer displayed.

- Check the display of all indicator and warning lights.



DTC self-diagnosis not completed

The DTC function is not available, as the self-diagnosis function has not been completed. (To check wheel speed sensors, the motorcycle must reach a minimum speed with engine running: min 3 mph (min 5 km/h))

If a DTC fault is displayed after the DTC self-diagnosis is completed:

- You may continue riding. Please note that the DTC function is limited or is not available at all.
- Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

BREAKING IN

Engine

- Up to the first break-in inspection, vary the throttle opening and engine-speed range frequently; avoid riding 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))

- Observe mileage, after which the break-in inspection should be performed.



Carrying out the run-in check

311...746 miles (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 exerting 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.

SHIFTING

—with Gearshift Assistant Pro^{OE}

Gear Shift Assistant Pro



More detailed information on Pro Gear Shift Assistant can be found in the "Technology in detail" chapter.

- The gears are shifted into as usual with foot force on the gearshift lever.
- » A sensor on the gearshift shaft detects the gearshift request and triggers the shift assistance.
- » If you are riding at cruising speed in a low gear at high RPMs and attempt to shift gears without clutch control, it can cause a strong load-change response. BMW Motorrad recommends only shifting gears with clutch control in these riding situations. Riders should avoid using the Gear Shift Assistant in the range of the RPM limiter.
- » Shift assistance is not available in the following situations:
 - Clutch disengaged.
 - Gearshift lever not in its initial position.
 - When upshifting with the throttle valve closed (coasting

overrun) or when decelerating.

- When downshifting with the throttle valve open or when accelerating.
- To enable another gear change with the Gear Shift Assistant, the gearshift lever must be fully released after the first shifting process.

BRAKES

How do you achieve the shortest braking distance?

The dynamic load distribution between the front and rear wheel changes during braking. The more pressure you apply to the brake, the greater the load 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

154 RIDING

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.

Locking up of the front wheel is prevented by BMW Motorrad Integral ABS.



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.

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.



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.

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 exceed 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, ABS Pro prevents blocking and slipping of the wheels within the scope of the physical riding limits.



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

PARKING THE MOTORCYCLE

Side stand

- Turn 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

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

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.



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 out side stand and park motorcycle.
- If the slope of the road permits, turn the handlebars to the left.
- On sloping roads, park the motorcycle in the "uphill" direction. Shift into gear.

Center stand

- Turn off engine.

- Fold out center stand and jack up motorcycle.
- On sloping roads, park the motorcycle in the "uphill" direction. Shift into gear.

REFUELING

Fuel quality 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.

- Observe the maximum ethanol content of the fuel.



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

Premium unleaded (max. 15% ethanol, E15)
89 AKI (95 ROZ/RON)
90 AKI



Alternative fuel quality

Regular unleaded (restrictions with regard to power and fuel consumption) (max 15% ethanol, E10/E15)
87 AKI (91 ROZ/RON)
87 AKI

Refueling procedure 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.

**WARNING**

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

Accident hazard

- Do not overfill 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 the motorcycle, making sure the ground is level and firm.
- Turning off the ignition (▶▶▶ 65).



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.

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After-running period for opening the fuel filler cap

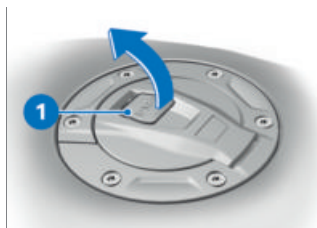
2 min

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

Version 1

Requirement

Within the after-run period



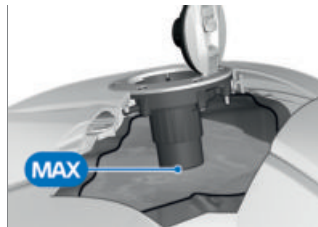
- Slowly pull up the fuel cap tab **1**.
- » Fuel filler cap unlocked.
- Open fuel filler cap completely.

Version 2

Requirement

After the after-run period is over

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



- Refuel with a fuel quality as specified above, but no higher than the lower edge of the fuel filler neck. This is the maximum level.

 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

160 RIDING

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

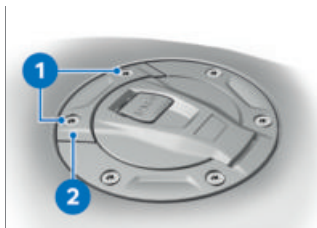
Approx. 1.1 gal (Approx. 4 l)

- Press fuel filler cap of fuel tank down firmly.
 - » Fuel filler cap snaps in audibly.
 - » The fuel cap automatically locks after the after-run period is over.
 - » The engaged fuel cap snaps in immediately when the steering lock is locked or the ignition is turned on.

Open fuel filler cap emergency unlocking

The fuel filler cap cannot be opened.

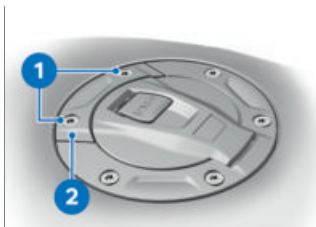
- Have the fault rectified as soon as possible by a specialist workshop, preferably an authorized BMW Motorrad retailer.



- Remove screws **1**.
- Remove emergency unlocking **2**.
 - » Fuel filler cap unlocked.
- Open fuel filler cap completely.
- Refueling (▮▮▮ 158).
- Close fuel filler cap emergency unlocking (▮▮▮ 160).

Close fuel filler cap emergency unlocking Requirement

Fuel filler cap is closed.



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

SECURING MOTORCYCLE FOR TRANSPORTATION

- Protect all components from being scratched where tensioning belts are routed, for example, by using adhesive tape 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.
- Secure the motorcycle from tipping with support from a second person.



- Do not pull the tensioning belts over the footrests.
- Tighten all tensioning belts evenly; the vehicle should be pulled down with the springs compressed as much as possible.



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 belts on left and right through the front suspension and strap the motorcycle down.



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

TECHNOLOGY IN DETAIL

09

GENERAL NOTES	166
ANTILOCK BRAKING SYSTEM (ABS)	166
DYNAMIC TRACTION CONTROL (DTC)	169
ENGINE DRAG TORQUE CONTROL	171
ELECTRONIC CHASSIS AND SUSPENSION ADJUST- MENT	171
RIDING MODE	172
TIRE PRESSURE MONITORING (RDC)	173
GEAR SHIFT ASSISTANT	175
HILL START CONTROL	176
ADAPTIVE HEADLIGHT	178

GENERAL NOTES

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

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 the Integral ABS work?

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

If the maximum transferrable braking force is exceeded when the rider increases the brake pressure, the wheels begin to lock and riding stability is lost, and a fall can occur. Before this situation occurs, ABS is activated and the brake pressure is adjusted to the maximum transferable braking force. This enables the wheels to continue to turn and maintains riding stability regardless of the road 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 carried 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

However, during extremely heavy and rapid deceleration it is possible that the BMW Motorrad Integral ABS will not prevent the rear wheel from lifting off the ground. In these cases, the motorcycle can also flip end over end.



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 features of the BMW Motorrad Integral ABS?

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

168 TECHNOLOGY IN DETAIL

At speeds greater than min 2 mph (min 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 requirements encountered under the extreme conditions of competitive off-road and racetrack 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 switched off for safety reasons, and an ABS fault is displayed. A self-diagnosis must be completed before the fault message can be displayed.

Apart from problems on the BMW Motorrad Integral ABS, unusual riding conditions can also cause a fault message to be generated.

Unusual riding conditions:

- Warm-up on the center or auxiliary stand in neutral 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 message occur due to one of the riding conditions described above, the ABS function can be reactivated by turning 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.



WARNING

Braking in curves

Risk of accident despite ABS

- The rider is always responsible for adapting his/her driving style.
- Do not reduce the additional safety function with careless riding or unnecessary risks.

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 prevents the wheels from locking up, even in the event of quick brake actuation. ABS Pro reduces abrupt changes in steering forces, especially during shock braking, and therefore decreases the risk of the motorcycle lifting off the ground inadvertently.

ABS control

From a technical standpoint, ABS Pro adjusts the ABS control to the angle of inclination of the vehicle 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 vehicle. With an increasing angle, the brake pressure gradient is increasingly limited at the start of braking. This results in a slower pressure build-up. 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 traction control work?

The traction control compares the wheel centrifugal velocities of the front and rear wheels. The slip, and with it the stability reserves at the rear wheel, are determined from the speed

difference. The engine control adapts the engine torque when the slip limit is exceeded.

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

The system is not optimized for the special requirements encountered under the extreme conditions of competitive off-road and racetrack use. BMW Motorrad DTC can be switched off in such instances.



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.

Special situations

As the angle of inclination increases, the capacity to accelerate is more and more limited in accordance with 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 DTC compares the speeds of the front and rear wheel and takes the angle of inclination and other factors into account.

If the values for the angle of inclination are detected to be implausible for a long period, a substitute value is used for the angle of inclination/the DTC is turned off. In these cases, a DTC fault is displayed. A self-diagnosis must be completed before the fault message can be displayed.

Under the following unusual riding conditions, the BMW Motorrad Traction Control may be switched off automatically.

Unusual riding conditions:

- Riding on the rear wheel (wheelie) for a longer period.

- Rear wheel spinning in place with front wheel brake engaged (burn-out).
- Warm up on the center stand in Neutral or with gear engaged.

ENGINE DRAG TORQUE CONTROL

How does engine drag torque control work?

The purpose of the engine drag torque control is to safely prevent unstable riding conditions that are related to excess drag torque at the rear wheel. Depending on the road condition and riding dynamics, excess drag torque can make the slip at the rear wheel increase severely and impede riding stability. The engine drag torque control reduces slip at the rear wheel to a safe, setpoint slip that is dependent on the mode.

Causes of excess slip at the rear wheel:

- Riding in coasting overrun on a road with low coefficient of friction (e.g. wet leaves).
- Hopping when shifting gears down.
- Hard brake onset in sporty riding style.

Like the BMW Motorrad DTC traction control, the engine drag torque control compares the wheel centrifugal velocities of the front and rear wheels, which are calculated from the wheel speeds and the tire radius. The engine drag torque control can determine the slip, and therefore the stability reserve, on the rear wheel using the speed difference. If the slip exceeds the respective limit value, the engine torque is increased by slightly opening the throttle valves. The slip is reduced, and the vehicle is stabilized.

Effect of the engine drag torque control

- In the RAIN and ROAD riding modes: Maximum stability.
- In DYNAMIC riding mode: Reduced intervention when compared to the RAIN and ROAD riding modes.

ELECTRONIC CHASSIS AND SUSPENSION ADJUSTMENT

Riding position compensation

The electronic Dynamic ESA chassis and suspension adjustment can automatically adapt your motorcycle to the load. If the suspension adjustment is

172 TECHNOLOGY IN DETAIL

set to **Auto**, the rider does not have to deal with adjusting the load.

 BMW Motorrad recommends the **Auto** chassis and suspension adjustment.

When the motorcycle is started and while it is being ridden, the system monitors the spring compression of the rear wheel and corrects the spring setting to ensure that the correct riding position is set. The damping is also automatically adjusted to the vehicle load.

Using ride height sensors, Dynamic ESA detects the movements of the suspension and responds to them by adjusting the EDC valves. As a result, the suspension is adjusted to the conditions of the ground surface.

Dynamic ESA calibrates itself at regular intervals to ensure that the system is operating correctly.

Possible settings

Damping modes

- Road: Damping for comfortable road travel
- Dynamic: Damping for dynamic road travel

Load settings

- Min: Minimum spring setting (only suitable as an aid for mounting the motorcycle)
- Auto: Riding position compensation with automatic setting of spring setting and damping (recommended chassis and suspension adjustment setting)

RIDING MODE

Selection

To adjust the motorcycle to the road condition and the desired riding experience, you can select from the following riding modes:

- RAIN
- ROAD
- DYNAMIC

For each of these riding modes, there is a coordinated setting for the DTC systems, engine drag torque control and the throttle response.

Dynamic ESA can be set regardless of the selected riding mode.

DTC can be turned off in any riding mode. The following explanations always refer to the electronic stability control systems that are turned on.

Throttle response

- In RAIN riding mode: Gentle throttle response.
- In ROAD riding mode: Optimum throttle response.
- In DYNAMIC riding mode: Direct throttle response.

Traction control DTC

- In RAIN riding mode: Maximum stability on wet roads. Acceleration may be reduced on dry roads.
- In ROAD riding mode: High stability on dry roads. The intervention of the DTC occurs later than in the RAIN riding mode. Rear wheel spinning without traction is avoided wherever possible.
- In the RAIN and ROAD riding modes, the front wheel is prevented from lift-off.
- In the DYNAMIC riding mode, the intervention of the DTC occurs later than in the RAIN and ROAD riding modes. High performance on dry roads. In poor road conditions, optimum stability cannot be guaranteed.

Switchover

Riding modes can be changed when the vehicle is at a standstill with the ignition turned on. A changeover while riding is possible under the following conditions:

- No drive torque at rear wheel.
- No brake pressure in the braking system.

For a changeover while riding, the following steps must be carried out:

- Turn back throttle grip.
- Do not actuate brake lever.
- Deactivate the cruise control.

First, the desired riding mode is preselected. The switchover does not take place until the affected systems are in the required state.

The Selection menu does not disappear from the display until the riding mode has been switched over.

TIRE PRESSURE MONITORING (RDC)

Function

A sensor located in each tire monitors the air temperature and the tire pressure and transmits this information to the control unit.

174 TECHNOLOGY IN DETAIL

The sensors are equipped with a centrifugal controller, which does not enable the transmission of the measured values until the minimum speed is exceeded for the first time.



Minimum speed for the transmission of the RDC measured values:

min 19 mph (min 30 km/h)

Before initial reception of the tire pressure, -- is shown in the display for each tire. The sensors continue to transmit the measured readings for some time after the vehicle comes to a standstill.



Transmission time of the measured values after vehicle standstill:

min 15 min

If an RDC control unit is installed but the wheels have no sensors, a fault message is issued.

Tire inflation pressure ranges

The RDC control unit distinguishes between three inflation pressure ranges matched to the motorcycle:

- Tire pressure within the permissible tolerance.
- Tire pressure at the limits of the permissible tolerance.
- Tire pressure outside the permissible tolerance.

Temperature compensation

The tire pressure is temperature-dependent: it increases or decreases together with the tire air temperature. The tire temperature is dependent on the outside temperature, the riding style and the length of the journey.



The tire pressures are shown in the TFT display with temperature compensation and are always based on the following tire air temperature:

68 °F (20 °C)

Tire pressure gauges at gas stations do not make any compensation for the air temperature, the tire pressure indicated depends on the temperature of the air in the tire. As a result, in most cases the values displayed there do not match the values shown in the display.

Tire pressure adjustment

Compare the RDC value in the display with the value on the back cover of the rider's manual. The difference between the two values must be compensated with the tire pressure gauge at the gas station.

 Example
According to the Operating Instructions, the tire pressure should have the following value:
36.3 psi (2.5 bar)
The following value is displayed in the TFT display:
33.4 psi (2.3 bar)
The shortfall is thus:
2.9 psi (0.2 bar)
The tester at the filling station shows:
34.8 psi (2.4 bar)
To produce the correct tire pressure, this must be increased to the following value:
37.7 psi (2.6 bar)

GEAR SHIFT ASSISTANT

—with Gearshift Assistant Pro^{OE}

Gear Shift Assistant Pro

Your vehicle 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 shifts can be performed without using the clutch.
- Less movement between rider and passenger due to shorter gear-change intervals.
- Throttle valve does not have to be closed when changing gear under acceleration.
- During deceleration and downshifts (throttle plate closed) the system blips the throttle valve to obtain the correct engine speed.
- Shifting times are faster than when the clutch is used to shift gears.

For the system to detect the rider's intention to change gears, the gearshift lever previously not operated must be moved against the spring force by a certain amount of "overtravel" 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 shift is completed, the gearshift lever must be fully released before the Gearshift Assistant Pro can execute a new gear change. When the gear is changed using the Gearshift Assistant, the respective load condition (throttle grip position) must be kept constant before and during the gear shift. Changing the throttle 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 Gear Shift Assistant 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 required gear.
- The engine speed is thus prevented from dropping below idle speed.



Idle speed

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

HILL START CONTROL

Hill Start Control function

The Hill Start Control Pro drive-off assistant function prevents uncontrolled rolling back on slopes by means of targeted intervention in the partial integral ABS brake system, without the rider having to operate the brake lever continuously. When Hill Start Control Pro is activated, pressure builds 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 turning of the throttle grip is hardly required.
- 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 turning of the throttle grip necessary.

Behavior when the vehicle is rolling back or slipping

- The brake pressure increases when the vehicle is rolling back with the Hill Start Control Pro activated.
- If the rear wheel slips, the brake is released again after approx. 3.3 ft (approx. 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. 2 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 HEADLIGHT

How do the adaptive headlights work?

The standard installed dimming unit in the headlight consists of two reflectors that generate low beams using LEDs. Ride height sensors at the front and rear wheel suspension provide data for continuous headlight range 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. Using Adaptive Headlights, the dimming unit additionally rotates around an axis, depending on the angle, and compensates for the angle of roll of the vehicle. The angle of rotation is 70° ($\pm 35^{\circ}$).

In addition to the pitching compensation, therefore, the low-beam headlight is adjusted to compensate for the lean angle during riding. Both movements are overlaid so that a highlight in the curve results. This results in significantly improved illumination of the road when riding around curves and thus

an enormous increase in active safety.

MAINTENANCE

10

GENERAL NOTES	182
ONBOARD VEHICLE TOOL KIT	182
FRONT WHEEL STAND	183
ENGINE OIL	183
BRAKE SYSTEM	185
CLUTCH	190
COOLANT	190
TIRES	191
RIMS	192
WHEELS	192
LIGHT SOURCES	199
JUMP-STARTING	199
BATTERY	200
FUSES	204
DIAGNOSTIC CONNECTOR	205

GENERAL NOTES

The "Preventive maintenance" chapter describes work involving the checking and replacement of wearing parts that can be performed with a minimum of effort.

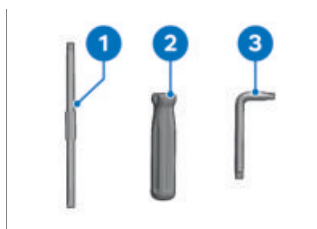
If specific tightening torques are to be taken into account for installation, these are listed. An overview of all required tightening torques is contained in the chapter "Technical data".

Microencapsulated screws

The microencapsulation is a chemical threadlocker. An adhesive is used to create a solid connection between screw and nut or component. Microencapsulated screws, therefore, are suitable for single use only. After removal, the internal thread must be cleaned to remove adhesive. During installation, a new microencapsulated screw must be used. Therefore, before removal, ensure that you have suitable tools for cleaning the thread and have a replacement screw. If you carry out the work improperly, the locking function of the screw might no longer be guaranteed, which puts you in danger!

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



- 1** Reversible screwdriver insert
Slotted blade and T25 torx
- 2** Screwdriver handle
- 3** Torx wrench, T25/T30
T25 on short end, T30 on long end

FRONT WHEEL STAND

Attaching the front wheel stand

ATTENTION

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

Component damage caused by tipping over

- Place the motorcycle on a center or auxiliary stand before lifting the front wheel with the BMW Motorrad front-wheel stand.
- Ensure that the motorcycle is standing securely.
- Make sure the ground is level and firm and put the motorcycle on its center stand.



- For a description of the correct installation, please refer to the instructions for the front wheel stand.

- BMW Motorrad offers a suitable auxiliary stand for each motorcycle. Your authorized BMW Motorrad retailer will be very happy to assist you in choosing the suitable auxiliary stand.

ENGINE OIL

Checking the 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 center stand at operating temperature.

184 MAINTENANCE

- Allow the engine to idle in Neutral until the fan starts up, then allow it to idle one minute longer.
- Turn off engine and wait for approximately one minute so that the oil can drain down.
- Clean the area around the oil filler opening.



- 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 the oil level dipstick and check oil level.



Specified level of engine oil

Between **MIN** and **MAX** mark
(Engine at operating temperature)



Engine oil, top-up quantity

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

If the oil level is below the **MIN** mark:

- Topping up the engine oil (185).

If the oil level is above the **MAX** mark:

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

Topping up the engine oil

- Park the motorcycle, making sure the ground is level and firm.
- Wipe the area around the oil filler opening clean.



- Remove oil level dipstick 1.



ATTENTION

Use of too little or too much engine oil

Engine damage

- Always make sure that the oil level is correct.
- Top up the engine oil to the specified level.
- Check the engine oil level (1111111111 183).
- Install oil level dipstick 1.

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:



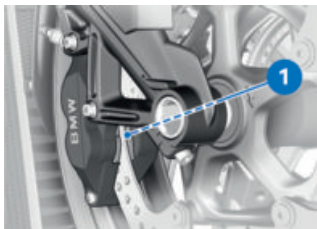
ATTENTION

Improper working on the brake system

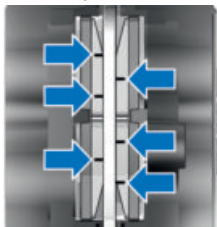
Endangering of the operating safety of the brake system

- 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.
- ### Checking the front brake pad thickness
- Park the motorcycle, making sure the ground is level and firm.

186 MAINTENANCE



- Visually inspect the brake pad thickness on the left and right. Direction of view: between front suspension and brake caliper mounting bracket toward brake pads **1**.



Front brake-pad wear
limit

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

If the wear marks are no longer clearly visible:



WARNING

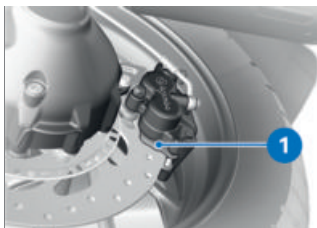
Dropping below the minimum pad thickness

Reduced braking action, damage to the brake

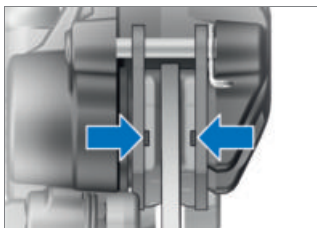
- In order to ensure the operating reliability of the brake system, make sure that the brake pads are not worn beyond their minimum thickness.
- Have brake pads renewed at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Checking the rear brake pad thickness

- Park the motorcycle, making sure the ground is level and firm.



- Visually inspect the brake pad thickness. Direction of view: from below, looking at brake pads **1**.



Rear brake-pad wear
limit

min 0.04 in (min 1.0 mm)
(Only friction lining without
carrier plate. Do not permit
wear to progress to the point
at which the wear indicators
(grooves) are reached.)

If the wear 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 brake pads renewed at a specialist workshop, preferably an authorized BMW Motorrad retailer.

188 MAINTENANCE

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 the ground is level and firm and put the motorcycle on its center stand.
 - Move the handlebars to the 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 malfunction rectified as soon as possible by a specialist workshop, preferably an authorized BMW Motorrad retailer.

Checking the rear brake fluid level

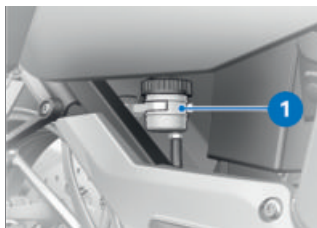


WARNING

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 the ground is level and firm and put the motorcycle on its center stand.



- 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, vehicle standing upright.)

190 MAINTENANCE

If the brake fluid level falls below the approved level:

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

CLUTCH

Check clutch function

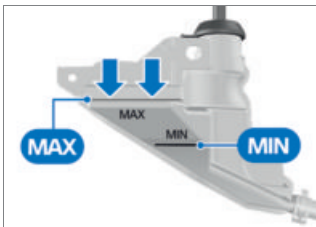
- Pull back the clutch lever.
 - » Pressure point must be clearly perceptible.

If no clear pressure point can be felt:

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



- Check coolant level at expansion tank **1**.



COOLANT

Checking the coolant level

- Park the motorcycle, making sure the ground is level and firm.
- Allow the engine to cool down.



Required coolant level

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

If the coolant level drops below the permitted level:

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

TIRES

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 therefore cannot take responsibility for their riding safety.

BMW Motorrad recommends only using the tires tested and approved by BMW Motorrad. Detailed information can be obtained from your authorized BMW Motorrad retailer or online at bmw-motorrad.com/service.

Checking tire pressure



WARNING

Incorrect tire inflation pressure

Poorer handling characteristic of motorcycle, reduction of tire service life

- Ensure proper tire inflation pressure.



WARNING

Automatic opening of vertically installed valve inserts at high speeds

Sudden loss of tire inflation pressure

- Use valve caps with rubber sealing ring and screw on firmly.

- Park the motorcycle, making sure the ground is level and firm.
- Check tire pressure against data below.



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



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 the tire pressure.

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.

RIMS

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.

WHEELS

Affect of wheel sizes on suspension control systems

The wheel sizes play a major role in the ABS and DTC suspension-control systems. The diameter and width of the wheels stored in the control unit have particular significance as the basis for all necessary calculations. 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 are essential for correct wheel speed detection; they too must match the motorcycle's control systems and consequently cannot 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 the ground is level and firm and put the motorcycle on its center stand.



- Remove the screws **1** on the left and right.
- Pull out the front wheel cover **2** toward the front.



- Take the cable for the wheel speed sensor out of the holding clip **1** and remove the cable tie **2**.
- Remove the screw **3** and remove the wheel speed sensor from the bore.
- Remove the mounting bolts **4** of the left and right brake calipers.



- Push brake pads **1** apart slightly by turning the brake caliper **2** back and forth against brake disk **3**.



ATTENTION

Using hard or sharp-edged objects near the component

Component damage

- Do not scratch components, if necessary tape off or cover.
- Mask off areas of the wheel rim that could get scratched in the process of removing the brake calipers.



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.
- Carefully pull the brake calipers back and outward to remove them from the brake disks.
- Raise front of motorcycle until the front wheel can turn freely. Use a suitable front wheel stand to raise the motorcycle.

- Attach the front wheel stand (▶ 183).



- Loosen the right axle clamping screw **2**.
- Remove the quick-release axle **1** while supporting the front wheel.
- Place front wheel down and roll it forward out of the front suspension.

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.
- Roll the front wheel into the front suspension.



- Lubricate the quick-release axle **1**.



Lubricant

Optimoly TA

**WARNING**
Improper installation of quick-release axle

Loosening of the front wheel

- After the brake caliper is fastened and the spring fork is relaxed, tighten the quick-release axle and axle clamping with the specified torque.

- Lift the front wheel and install the quick-release axle **1** using an appropriate torque.



Quick-release axle in threaded bush (wheel carrier)

M24 x 1,5

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

M8 x 30

14 lb/ft (19 Nm)

- Remove the front wheel stand.

196 MAINTENANCE

- Put the brake calipers on the left and right onto the brake disks.



- Install mounting bolts **4** on left and right to the specified torque.



Front brake caliper at wheel carrier

M8 x 30 - 10.9

21 lb/ft (28 Nm)

- Remove adhesive tape from wheel rim.



WARNING

Brake pads do not contact the brake disc

Risk of accident due to delayed braking effect.

- Before driving off, check that the braking effect kicks in without any delay.
- Engage the brakes repeatedly until the brake pads make contact with the discs.

- Insert cable for wheel speed sensor in holding clip **1** and install cable tie **2**.
- Insert the wheel speed sensor into the bore and install the screw **3**.



Wheel speed sensor on the front suspension/rear brake caliper

M5 x 10 - 10.9

Thread-locking compound: micro-encapsulated

3 lb/ft (4.6 Nm)



- Position front wheel cover **2** and install screws **1** on the left and right.



Front-wheel cover on the wheel carrier

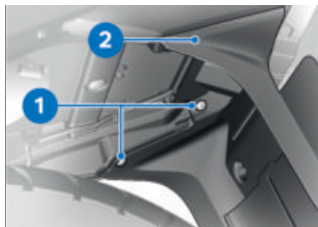
M6 x 16

Thread-locking compound: micro-encapsulated

1 lb/ft (2 Nm)

Remove the rear wheel

- Make sure the ground is level and firm and put the motorcycle on its center stand.
- Remove a case (► 93).



- Remove the screws **1** on the left and right.
- Remove license-plate carrier **2**.
- Shift into first gear.



CAUTION

Hot exhaust system

Burn hazard

- Do not touch hot exhaust system.

- Remove the screws **1** of the rear wheel while supporting the wheel.
- Roll rear wheel 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.

198 MAINTENANCE

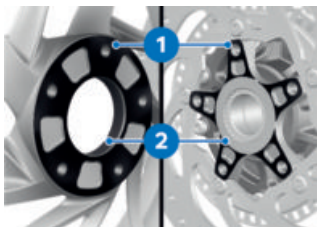


ATTENTION

Rear wheel installation counter to running direction

Risk of accident

- Observe running direction arrow on tire or rim.



- Clean contact surfaces of the wheel hub **1** and wheel centering device **2**.
- Roll and place rear wheel onto rear wheel support.



- Install the screws **1** and tighten to the appropriate torque.



Tighten rear wheel on wheel flange

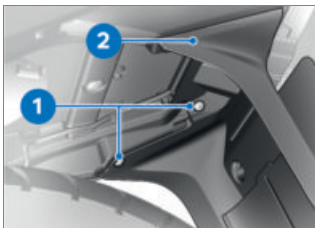
Tightening sequence: Tighten crosswise

M10 x 1.25 x 40

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 the license-plate carrier **2** using screws **1** on left and right.



License-plate carrier on rear carrier

Thread-locking compound: mechanical

1 lb/ft (2 Nm)

- Attach a case (🔧 93).

LIGHT SOURCES

Replacing the LED light source



WARNING

Overlooking the vehicle in traffic due to a defective light source on the vehicle

Safety risk

- Replace defective light sources as quickly as possible. For details please contact a specialist service facility, preferably an authorized BMW Motorrad Retailer.

All light sources on the vehicle are LED light sources. The service life of the LED light sources is longer than the assumed service life of the vehicle. If an LED light source is faulty, please contact a specialist 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 battery from onboard electrical system for jump-starting procedure.
- Remove the seat (▮▮▮ 91).
- Let the engine of the donor vehicle run during the jump-starting procedure.
- Begin by clamping one end of the red jumper cable to the positive terminal of the drained battery and clamping the other end to the positive terminal of the donor battery.
- Clamp the black jumper cable first to the donor battery's negative terminal and then to the drained battery's negative terminal.
- Start the engine of the vehicle with the empty battery in the usual way; if the engine does not start, wait a few minutes before repeating the attempt to start the engine to pro-

tect the starter motor and the donor battery.

- Allow both engines to idle for a few minutes before disconnecting the jumper cables.
- Disconnect jumper cables first from negative, then from positive terminal.
- Install the seat (▮▮▮ 91).

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 using the socket on the dashboard.



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



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.

- Disconnect battery from vehicle (▮▮▮ 203).
- Charge battery using a suitable charger.
- Comply with operating instructions of charger.
- Once battery is fully charged, disconnect charger's terminal clips from battery terminals.

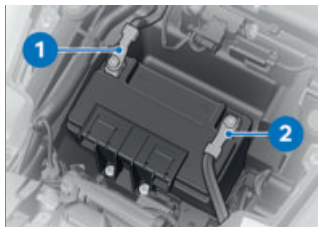


In the case of longer periods when the motorcycle is not being used, the battery must be recharged regularly. See the instructions for caring for your battery. Always fully recharge the battery before returning it to use.

- Connect battery to vehicle (▮▮▮ 203).

Disconnecting battery from vehicle

- Park the motorcycle, making sure the ground is level and firm.
- Remove the seat (▮▮▮ 91).



ATTENTION

Incorrect battery disconnection

Danger of short circuit

- Follow the disconnection sequence.

- First remove the negative battery cable **1**.
- Then remove the positive battery cable **2**.

Connecting battery to vehicle

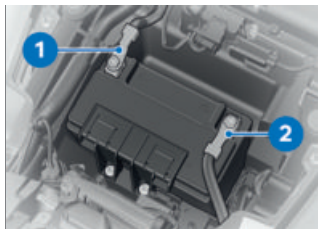


ATTENTION

Incorrect battery connection

Danger of short circuit

- Follow the installation sequence.

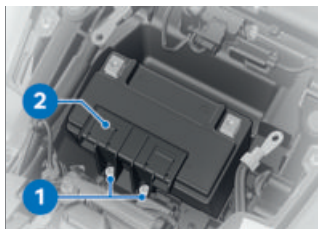


- First install the positive battery cable **2**.
- Then install the negative battery cable **1**.
- Install the seat (▮▮▮ 91).

Removing the battery

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

- Turn off the anti-theft alarm system.◁
- Turn off the ignition.
- Disconnect battery from vehicle (▮▮▮ 203).

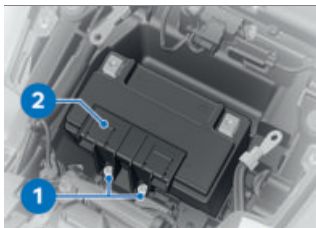


- Remove the screws **1** and remove the retainer **2**.

- Lift out battery upward. Work it back and forth slightly if it is difficult to remove.

Installing the battery

- Place battery in battery compartment with positive terminal on left in riding direction.



- Insert the retainer **2**; install the screws **1**.



Battery carrier on the rear carrier

M5 x 10

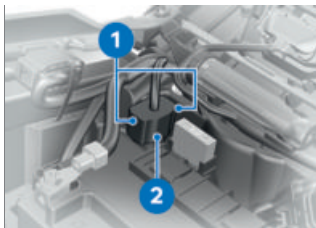
2 lb/ft (3 Nm)

- Connect battery to vehicle (➡ 203).
- with anti-theft alarm system (DWA)^{OE}
- Turn on the anti-theft alarm system.◁
- Setting the clock (➡ 114).
- Setting the date (➡ 113).

FUSES

Replacing fuses

- Turn off the ignition.
- Remove the seat (➡ 91).



- Press lock **1** on both sides.
- Pull off the fuse box **2**.



ATTENTION

Bypassing defective fuses

Risk of short circuit and fire

- Do not bypass defective fuses.
- Replace defective fuses with new fuses.

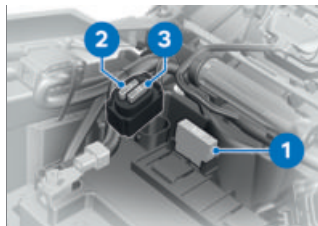
- Replace faulty fuse according to assignment plan.



If the fuses blow frequently, have the electrical system checked by an authorized specialized workshop, preferably an authorized BMW Motorrad retailer.

- Reinsert the fuse box **2**. Make sure that the lock **1** snaps in on both sides.
- Install the seat (→ 91).

Fuse layout



- 1** 40 A
Main fuse
- 2** 7.5 A
Topcase, TPM, sensor box
- 3** 10 A
Instrument cluster, ignition switch, DWA, cut-off relay, OBD connector

Fuse for audio system



- 1** 15 A
Fuse for audio system

DIAGNOSTIC CONNECTOR

Detaching the diagnostic connector



CAUTION

Incorrect procedure when disconnecting the diagnostic socket for onboard diagnosis

Vehicle experiences malfunctions

- Do not have the diagnostic socket disconnected except during BMW Motorrad service by a specialist workshop or other authorized persons.
- Have work carried out by appropriately trained personnel.
- Observe the specifications of the vehicle manufacturer.

206 MAINTENANCE

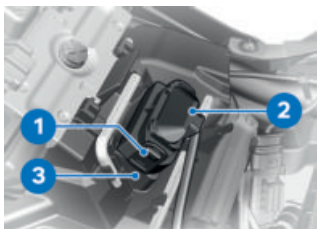
- Remove the seat (▮▮▮▮ 91).
- Install the seat (▮▮▮▮ 91).



- Press locking mechanisms **1**.
 - Detach the diagnostic connector **2** from the seat bracket **3**.
- » The interface for the diagnostics and information system can be connected to the diagnostic connector **2**.

Fastening the diagnostic connector

- Disconnect the interface for the diagnostics and information system.



- Plug the diagnostic connector **2** into the seat bracket **3**.
- » The locks **1** snap in.

ACCESSORIES

11

GENERAL NOTES	210
SOCKETS	210

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, function 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 the legal requirements for any modifications.

Consult the road traffic licensing regulations of your country.

Your authorized

BMW Motorrad retailer

offers you qualified advice for choosing original BMW parts, accessories and other products.

More information on the topic of accessories is available at:

bmw-motorrad.com/equipment

SOCKETS

Connecting electrical devices

- The ignition must be turned on before electrical devices connected to the onboard power sockets can be put into operation.

Cable layout

- The cables from the on-board sockets to the auxiliary devices must be routed in such a way that they do not impede the rider.
- Cable layout must not restrict the steering angle and the handling characteristics.
- Cables must not be trapped.

Automatic shutoff

- The onboard sockets are automatically switched off during the starting procedure.
- To relieve the electrical system, the sockets are turned off 60 seconds after the ignition has been switched off. Accessories with low electrical consumption might not be detected by the vehicle electronics. In these cases, onboard sockets are already turned off shortly after the ignition is turned off.



Automatic power socket
cut-out after ignition is
turned off

max 15 min

- In case of insufficient battery voltage, the onboard sockets are switched off to maintain the starting capability of the vehicle.
- If the maximum loadability specified in the technical data is exceeded, the onboard sockets are switched off.

CARE

12

CARE PRODUCTS	214
WASHING THE VEHICLE	214
CLEANING SENSITIVE VEHICLE PARTS	215
CARE OF PAINTWORK	216
PAINT PRESERVATION	217
STORING THE MOTORCYCLE	217
PUTTING THE MOTORCYCLE INTO OPERATION	217

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, lab-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 THE VEHICLE

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 vehicle immediately after it has been exposed to bright sunlight and do not wash it in the sun.

Regularly clean the fork tubes of contamination.

Make sure that the vehicle is washed frequently, especially during the winter months.

To remove road salt, clean the vehicle and any add-on parts with cold water immediately after completion of every trip.



After rides in the rain, in high humidity and after the vehicle is washed, condensation can form inside the headlight. During this process, the headlight can become foggy for a while. If moisture accumulates in the headlight on an ongoing basis, contact a specialist workshop, preferably an authorized BMW Motorrad retailer.

**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 VEHICLE 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.

Clean plastic components with water and BMW plastic care emulsion. This includes in particular:

- Windshields and wind deflectors
- Headlight diffusers made of plastic
- Glass cover of the instrument cluster
- Black, unpainted parts



Soften stubborn dirt and dead insects by covering the affected areas with a wet cloth.

216 CARE

TFT display

Clean the TFT display with warm water and dish soap. Then dry with a clean cloth, e.g. a paper towel.

Chrome

Carefully clean chrome parts with plenty of water and BMW Motorrad Care Products motorcycle cleaner. This is required in particular for removing 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 parts with water or BMW rubber care product.



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.

CARE OF PAINTWORK

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 substances immediately; otherwise changes in the paint or discoloration may occur. These include spilled fuel, oil, grease and brake fluid as well as bird droppings. It is recommended to use BMW Motorrad solvent cleaner and then apply BMW Motorrad high-gloss polish to preserve the paint.

Contaminants on the paint surface are particularly easy to see after washing the vehicle. Remove this type of dirt immediately with cleaning benzene or

ethyl alcohol 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.



ATTENTION

Paint damage from metal polish

Risk of damage

- Do not treat paints and chrome lacquers with metal polish.

PAINT PRESERVATION

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 for paint preservation.



Chrome lacquer must not be preserved with chrome polish.

Only use the agents recommended by BMW Motorrad.

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.
- Remove the battery (11111 203).
- 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 (Vaseline).
- Park motorcycle in a dry room, raising it to relieve both wheels.

PUTTING THE MOTORCYCLE INTO OPERATION

- Remove the protective wax coating.
- Clean the motorcycle.
- Install the battery (11111 204).
- Observe checklist (11111 148).

TECHNICAL DATA

13

TROUBLESHOOTING CHART	220
THREADED CONNECTIONS	223
FUEL	225
ENGINE OIL	226
ENGINE	226
CLUTCH	227
TRANSMISSION	227
REAR-WHEEL DRIVE	228
FRAME	228
RUNNING GEAR	228
BRAKES	229
WHEELS AND TIRES	229
ELECTRICAL SYSTEM	231
ANTI-THEFT ALARM SYSTEM	231
DIMENSIONS	232
WEIGHTS	232
PERFORMANCE DATA	233

TROUBLESHOOTING CHART

Engine does not 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 (158).
Battery drained	Charge battery.
Overheating protection for starter motor has activated. Starter motor can only be actuated for a limited period.	Leave the starter motor to cool down for around 1 minute until it becomes available again.

Bluetooth connection is not established.

Possible cause	Remedy
Necessary pairing steps were not performed.	Refer to the operating instructions of the communication system for the necessary steps for pairing.
The communication system is not connected automatically despite successful pairing.	Turn off the communication system of the helmet and connect again after one to two minutes.
Too many Bluetooth® devices are stored in the helmet.	Delete all pairing entries in the helmet (see the operating instructions of the communication system).
There are additional vehicles with Bluetooth-capable devices nearby.	Avoid simultaneous pairing with multiple vehicles.

Bluetooth connection is disrupted.

Possible cause	Remedy
Bluetooth connection to the mobile end device is interrupted.	Turn off energy saving mode.
Bluetooth connection to the helmet is interrupted.	Turn off the communication system of the helmet and connect again after one to two minutes.
Bluetooth connection interrupted.	The temperature of the TFT display is too high. Bluetooth® is deactivated. The brightness of the TFT display is reduced. Avoid direct sunlight on the TFT display. Do not continue riding until components have cooled down.
Volume in the helmet cannot be adjusted.	Turn off the communication system of the helmet and connect again after one to two minutes.
Volume in helmet is too low.	Set volume for media and conversations to maximum on the mobile end device.

TFT display faulty.

Possible cause	Remedy
TFT display brightness reduced.	The temperature of the TFT display is too high. The brightness of the TFT display is reduced. Avoid direct sunlight on the TFT display. Do not continue riding until components have cooled down.

222 TECHNICAL DATA

Phone book is not displayed in the TFT display.

Possible cause	Remedy
Phone book has not yet been transferred to the vehicle.	When pairing to the mobile end device, confirm the transfer of the telephone data (126).
Not all contacts are displayed.	The number of phone book entries in the TFT display that can be saved is limited. Reduce the number of phone book entries in the mobile end device.

Active destination guidance is not displayed in the TFT display.

Possible cause	Remedy
Navigation from the BMW Motorrad Connected App was not transferred.	Go to the BMW Motorrad Connected App on the connected mobile end device before riding.
Route guidance cannot be started.	Ensure that there is a data connection to the mobile end device and check the map data on the mobile end device.

The playlist is not displayed in the TFT display.

Possible cause	Remedy
There are too many titles in the playlist on the mobile end device.	Reduce the number of titles in the playlist on the mobile end device.

THREADED 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)	
Wheel speed sensor on the front suspension/rear brake caliper		
M5 x 10 - 10.9, Renew bolt micro-encapsulated	3 lb/ft (4.6 Nm)	
Front-wheel cover on the wheel carrier		
M6 x 16, Renew bolt micro-encapsulated	1 lb/ft (2 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)	

224 TECHNICAL DATA

License-plate carrier	Value	Valid
License-plate carrier on rear carrier		
mechanical	1 lb/ft (2 Nm)	

FUEL

Recommended fuel quality	Premium unleaded (max. 15% ethanol, E15) 89 AKI (95 ROZ/RON) 90 AKI
Alternative fuel quality	Regular unleaded (restrictions with regard to power and fuel consumption) (max 15% ethanol, E10/E15) 87 AKI (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	137 g/km, in accordance with WMTC
Emission standard	TIER 2, measured in accordance with FTP75

226 TECHNICAL DATA

ENGINE OIL

Engine oil, capacity	Approx. 1.2 gal (Approx. 4.5 l), with filter exchange
Specification	SAE 5W-40, API SJ/ 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.
Engine oil, top-up quantity	max 0.5 quarts (max 0.5 l), Difference between MIN and MAX

BMW recommends **ADVANTEC**
ORIGINAL BMW ENGINE OIL

ENGINE

Engine number location	Above oil filler neck
Engine type	A40A16A
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	158 hp (118 kW), at RPM: 6750 min ⁻¹
Torque	133 lb/ft (180 Nm), at RPM: 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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TRANSMISSION

Transmission design	Claw-shifted 6-speed transmission with helical-cut splines
Transmission gear ratios	1.617 (97:60 teeth), Primary gear ratio 1.258 (39:31 teeth), Transmission input ratio 1.941 (33:17 teeth), 1. Gear 1.429 (30:21 teeth), 2. Gear 1.148 (31:27 teeth), 3. Gear 0.960 (24:25 teeth), 4. Gear 0.806 (25:31 teeth), 5. Gear 0.686 (24:35 teeth), 6. Gear 0.913 (21:23 teeth), Transmission output ratio

228 TECHNICAL DATA

REAR-WHEEL DRIVE

Type of final drive	Shaft drive with bevel gears
Gear ratio of rear-wheel drive	2.75 (33:12 teeth)
Type of rear-wheel guide	Cast-aluminum single swing arm with BMW Motorrad parallel lever

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

RUNNING GEAR

Front wheel

Type of front suspension	BMW Motorrad Duolever
Design of the front-wheel suspension	Central spring strut with coil spring
Spring travel, front	4.5 in (115 mm), on wheel

Rear wheel

Design of rear-wheel suspension	Central spring strut with coil spring, adjustable rebound-stage damping and spring preload
Spring travel, rear	5.3 in (135 mm), On wheel

BRAKES

Front wheel

Type of front wheel brake	Two-rotor disk brake, diameter 320 mm, 4-piston fixed caliper
Front brake pad material	Sintered metal
Front brake disc thickness	0.2 in (5.0 mm), New condition min 0.18 in (min 4.5 mm), Wear limit

Rear wheel

Type of rear wheel brake	Single-disc brake, diameter 320 mm, 2-piston floating caliper
Rear brake pad material	Organic
Rear brake disc thickness	0.22 in (5.5 mm), New condition min 0.19 in (min 4.9 mm), Wear limit
Blow-by clearance of foot-brake lever	min 0.04 in (min 1 mm), between piston and pushrod

WHEELS AND TIRES

Recommended tire combinations	An overview of the current tire approvals is available from your authorized BMW Motorrad retailer.
Speed category of front/rear tires	W, minimum requirement: 168 mph (270 km/h)

230 TECHNICAL DATA

Front wheel

Front wheel design	Aluminum cast wheel
—with Option 719 Classic forged wheels	Aluminum forged wheel
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	366 lbs (166 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	Aluminum cast wheel
—with Option 719 Classic forged wheels	Aluminum forged wheel
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	406 lbs (184 kg)
Permissible rear wheel load	max 811 lbs (max 368 kg)
Permissible rear-wheel imbalance	max 0.2 oz (max 5 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, maintenance-free
Battery voltage	12 V
Battery capacity	16 Ah

Spark plugs

Spark plugs, manufacturer and designation	NGK LMAR8AI-10
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Light sources

All light sources	LED
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Fuses

Main fuse	40 A, Controller, cut-off relay, BCL
Fuse 1	7.5 A, Topcase, TPM, sensor box
Fuse 2	10 A, Instrument cluster, ignition switch, DWA, cut-off relay, OBD connector
Fuse 3	15 A, Audio system

ANTI-THEFT ALARM SYSTEM

Anti-theft alarm system

Activation time	Approx. 30 s
Alarm duration	Approx. 26 s
Activation time between two alarms	Approx. 15 s
Battery type (For Keyless Ride radio-operated key)	CR 2032

232 TECHNICAL DATA

DIMENSIONS

Motorcycle length	98 in (2489 mm), over top-case
Motorcycle height	58.7...62.2 in (1490...1580 mm), over windshield and topcase at DIN unloaded vehicle weight
Motorcycle width	39.4 in (1000 mm), with mirrors and cases
Front-seat height	29.5 in (750 mm), without rider, at DIN unloaded vehicle weight
—with seat, high ^{OE}	31.5 in (800 mm), without rider, at DIN unloaded vehicle weight
Rider's inside-leg arc, heel to heel	69.3 in (1760 mm), Without rider at DIN unloaded vehicle weight
—with seat, high ^{OE}	72.8 in (1850 mm), Without rider at DIN unloaded vehicle weight

WEIGHTS

Unloaded vehicle weight	789 lbs (358 kg), DIN unloaded vehicle weight, ready for road, fuel tank 90% full, without OE
Gross vehicle weight	1235 lbs (560 kg)
Maximum payload	445 lbs (202 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)

SERVICE

14

REPORTING SAFETY DEFECTS	236
BMW MOTORRAD SERVICE	237
BMW MOTORRAD SERVICE HISTORY	237
BMW MOTORRAD MOBILITY SERVICES	238
MAINTENANCE WORK	238
MAINTENANCE SCHEDULE	240
BMW MOTORRAD BREAK-IN SERVICE	241
MAINTENANCE CONFIRMATIONS	242
SERVICE CONFIRMATIONS	254

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](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](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 procedures 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 is always in optimum condition, BMW Motorrad recommends that you comply with the maintenance intervals specified for your motorcycle.

Have all preventive maintenance and repair procedures 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 Motorrad Services from your BMW Motorrad retailer.

BMW MOTORRAD SERVICE HISTORY

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 electronic Service History (eSH), service-related data is stored on the central IT systems of BMW AG in Munich, Germany.

238 SERVICE

When there is a change in vehicle owner, the data entered in the electronic Service History can also be viewed by the new vehicle owner. A BMW Motorrad retailer or specialist workshop can view the data entered in the electronic Service History.

Objection

At the BMW Motorrad retailer or specialist workshop, the vehicle owner can object to the entry of data in the electronic Service History 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 History.

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 Motorrad Service

BMW Motorrad Service is carried out once a year. The scope of the services performed may be dependent on the age of the vehicle and the mileage ridden. Your BMW Motorrad retailer confirms that the service has been performed and enters the date for the next service. For riders with a high annual distance traveled, it may be necessary to come in for service before the entered date. In these cases, a corresponding maximum distance covered will also be entered in the confirmation of service. If

this distance covered is reached before the next service appointment, service must be performed sooner.

The service display in the multifunction display reminds you of the next service appointment approx. one month or 620 mi (1000 km) before the entered values.

More information on the topic of service is available at:

bmw-motorrad.com/service

The required scope of maintenance work for your vehicle can be found in the following maintenance schedule.

240 SERVICE

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 Motorrad break-in inspection (including oil and oil filter change)
- 2 Standard scope of BMW Motorrad service
- 3 Engine oil change with filter
- 4 Replace the air filter 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 bevel gears

- 9 Change brake fluid in the entire system
 - a Annually or every 6000 mi (whichever comes first)
 - b Every 2 years or every 12000 mi (whichever comes first)
 - c At first after one year, then every two years

BMW MOTORRAD BREAK-IN SERVICE

BMW Motorrad break-in service

The BMW Motorrad break-in service repair procedures are listed below. The actual scope of maintenance required for your vehicle may differ.

- Setting the service date and remaining distance
- Performing the vehicle test using the BMW Motorrad diagnosis system
- Engine oil change with filter
- Change oil in the angular gearbox
- Checking brake fluid level of the front wheel brake
- Checking brake fluid level in rear wheel brake
- Checking coolant level
- Checking the tire pressure and tread depth
- Checking the lighting and signal system
- Functional check for engine starting suppression
- Final inspection and check for road safety
- Performing the vehicle test using the BMW Motorrad diagnosis system
- Confirm the BMW service in the vehicle literature

MAINTENANCE CONFIRMATIONS

BMW Motorrad Service standard scope

The repair procedures belonging to the BMW Motorrad 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
- Confirming the BMW Motorrad service in the vehicle literature

BMW Motorrad pre-delivery check

performed

on _____

Stamp, signature

BMW Motorrad break-in service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Stamp, signature

BMW Motorrad Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

	Yes	No
BMW Motorrad Service	☐	☐
Oil change in engine with filter	☐	☐
Replacing air filter insert	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Check bearing for deflection at rear wheel	☐	☐
swinging arm (in maintenance		
Oil change in bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Notes

Stamp, signature

BMW Motorrad Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

	Yes	No
BMW Motorrad Service	☐	☐
Oil change in engine with filter	☐	☐
Replacing air filter insert	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Check bearing for deflection at rear wheel	☐	☐
swinging arm (in maintenance		
Oil change in bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Notes

Stamp, signature

BMW Motorrad Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

	Yes	No
BMW Motorrad Service	☐	☐
Oil change in engine with filter	☐	☐
Replacing air filter insert	☐	☐
Checking valve clearance	☐	☐
Replacing all spark plugs	☐	☐
Check bearing for deflection at rear wheel	☐	☐
swinging arm (in maintenance		
Oil change in bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Notes

Stamp, signature

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performed

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at km _____

Next service

latest

on _____

or, if reached earlier

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BMW Motorrad Service	☐	☐
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performed

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at km _____

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or, if reached earlier

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Changing brake fluid in entire system	☐	☐

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Stamp, signature

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performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

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Checking valve clearance	☐	☐
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Check bearing for deflection at rear wheel	☐	☐
swinging arm (in maintenance		
Oil change in bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Notes

Stamp, signature

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performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

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BMW Motorrad Service	☐	☐
Oil change in engine with filter	☐	☐
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Checking valve clearance	☐	☐
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swinging arm (in maintenance		
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Notes

Stamp, signature

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performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

	Yes	No
BMW Motorrad Service	☐	☐
Oil change in engine with filter	☐	☐
Replacing air filter insert	☐	☐
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Notes

Stamp, signature

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performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

	Yes	No
BMW Motorrad Service	☐	☐
Oil change in engine with filter	☐	☐
Replacing air filter insert	☐	☐
Checking valve clearance	☐	☐
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swinging arm (in maintenance		
Oil change in bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

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Stamp, signature

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performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

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BMW Motorrad Service	☐	☐
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swinging arm (in maintenance		
Oil change in bevel gears	☐	☐
Changing brake fluid in entire system	☐	☐

Notes

Stamp, signature

CERTIFICATE FOR TFT INSTRUMENT CLUSTER	257
CERTIFICATE FOR AUDIO SYSTEM	261
CERTIFICATE FOR ELECTRONIC IMMOBILIZER	262
CERTIFICATE FOR KEYLESS RIDE	265
CERTIFICATE FOR KEYLESS RIDE	267
CERTIFICATE FOR KEYLESS RIDE	269
CERTIFICATE FOR KEYLESS RIDE	271
CERTIFICATE FOR TIRE PRESSURE MONITOR	273
IP NOTICE: HD RADIO™	274

Declaration of Conformity

Radio equipment TFT instrument cluster

For all Countries without EU

Model name: ICC10in

Technical information

The ICC10in can operate in one of two operating modes:

1. Normal mode, with Bluetooth and WLAN on, and
2. Radio off mode (only available during vehicle manufacturing).

BT operating frq. Range:

2402 – 2480 MHz

BT version: 4.2 (no BTLE)

BT output power:

< +4 dBm (internal antenna)

WLAN operating frq. Range:

2402 – 2472 MHz

WLAN standards:

IEEE 802.11 b/g/n

WLAN output power:

< +14 dBm (internal antenna)

Manufacturer and Address

Manufacturer:

Robert Bosch GmbH

Address:

Robert-Bosch-Platz 1,
70839 Gerlingen, Germany

Turkey

Robert Bosch GmbH, ICC10in tipi telsiz sisteminin 2014/53/EU nolu yönetmeliğe uygun olduğunu beyan eder. AB Uygunluk Beyanı'nın tam metni, aşağıdaki internet adresinden görülebilir: <http://cert.bosch-carmultimedia.net>

Brazil

Este equipamento não tem direito de proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL www.anatel.gov.br

Thailand

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทช.
(This telecommunication equipments is in compliance with NTC requirements)

Argentina

 **RAMATEL**

C-25636

Canada

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Radiofrequency radiation exposure Information: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Informations sur l'exposition aux radiofréquences:

Cet équipement est conforme aux limites d'exposition aux radiations fixées par le Canada pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 centimètres entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisée ou opérant en conjonction avec autre antenne ou émetteur.

United States (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.

Changes or modifications made to this equipment not expressly approved by Robert Bosch GmbH may void the FCC authorization to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiofrequency radiation exposure Information: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Japan

This device is granted pursuant to the Japanese Radio Law (電波法) and the Japanese

Telecommunications Business Law (電気通信事業法)

本製品は、電波法と電気通信事業法に基づく適合証明を受けております。

This device should not be modified (otherwise the granted designation number will become invalid)

本製品の改造は禁止されています。
(適合証明番号などが無効となります。)



R

201-200559

T

20 0138 201

Korea

Equipment Name: BMW A-Kombi

Basic model number: ICC10in

Manufacturer/Country of Origin:

Robert Bosch GmbH / 포르투갈

Zertifikatsnummer:

R-R-BO2-ICC10in

Serbia



ID: И011 20

Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.



IFETEL

NYCE

Taiwan, Republic of

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Declaration of Conformity

Radio equipment audio system

Model name: MCR001

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.

FCC CAUTION

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

Cet appareil est conforme à la partie 15 des règles FCC. Son fonctionnement est soumis aux deux conditions suivantes :

- (1) Cet appareil ne doit pas causer d'interférences nuisibles, et
- (2) cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.

ATTENTION FCC

Les changements ou modifications non expressément approuvés par la partie responsable de la conformité peuvent annuler le droit de l'utilisateur à faire fonctionner l'équipement.

Declaration of Conformity

Radio equipment electronic immobiliser (EWS4)

For all countries without EU

Technical information

Frequency Band: 134 kHz
(Transponder: TMS37145 /
Type DST80, TMS3705
Transponder Base Station IC)
Output Power: 50 dBμV/m

Manufacturer and Address

Manufacturer:
BECOM Electronics GmbH
Address: Technikerstraße 1,
A-7442 Hochstraß

Argentina

 **RAMATEL**
H-25246

Australia/New Zealand



R-NZ

Brunei



TA No: DTA-007061

United Arab Emirates

TRA
REGISTERED No:
ER89926/20

DEALER No:
DA96133I20

Philippiens



NTC

Type Approved
No.: ESD-RCE-2023298

South Africa



TA-2020/6131

APPROVED

India

ETA-SD-20200905860

Belarus



Indonesia

72790/SDPPI/2021
13349



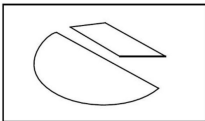
Dilarang melakukan perubahan
Spesifikasi yang dapat
Menimbulkan gangguan fisik
dan/atau elektromagnetik
terhadap lingkungan sekitarnya

Taiwan



低功 電波 射性電機管 辦法
第十二條 經型式認證合格之低
功率射頻電 機，非經許可，公
司、商號或使用者均不得擅 自變
更頻率、加大功率或變更原設計
之特性及 功能。第十四條 低功
率射頻電機之使用不 得影響飛航
安全及干擾合法通信；經發現有
干 擾現象時，應立即停用，並改
善至無干擾時方 得繼續使用。前
項合法通信，指依電信法規定作
業之無線電 通信。

Paraguay



CONATEL

NR: 2020-11-I-0834

Malaysia



RFCL/47A/0920/S(20-3358)

Singapore

Complies with
IMDA Standards
N3504-20

Israel

מספר אישור אלחוטי של משרד התקשורת הוא
51-74908
אסור להחליף את האנטנה המקורית של המכשיר
ולא
לעשות בו כל שינוי טכני אחר

United States (USA)

Contains FCC ID:

ODE-MREWS5012

FCC § 15.19 Labelling requirements

This device complies with part 15 of the FCC Rules and Industry Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

FCC § 15.21 Information to user

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

RF Exposure Requirements

To comply with FCC RF exposure compliance requirements, the device must be installed to provide a separation distance of at least 20 cm from all persons.

Serbia



P1620118300

Canada

Contains IC:

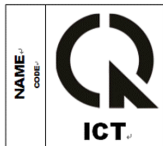
10430A-MREWS5012

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

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.

Vietnam



A1109091120AF04A3

Declaration of Conformity

Keyless Ride ECU

For all Countries without EU

Model name: HUF8485

Technical information

Frequenzy band: 134,45 kHz
Output/Transmission Power:
42 dBμV/m

Manufacturer and Address

Huf Hülsbeck &
Fürst GmbH & Co. KG
Steeger Str. 17,
42551 Velbert, Germany

Argentina

R RAMATEL

H-27411

Morocco

AGREE PAR L'ANRT MAROC
Numéro d'agrément: MR00031290ANRT2022
Date d'agrément: 06/01/2022

Nigeria

Connection and use of this communications
equipment is permitted by the Nigerian
Communications Commission

United Arab Emirates



TRA - United Arab Emirates

Dealer ID: DA36976/14
TA RTTE: ER04912/22
Model: HUF8485
Type: BMW



Malaysia



Philippines



NTC

Type Approved
No. ESD-RCE-2228692

South Africa



TA-2022/0251

APPROVED

Vietnam



Indonesia

81597/SDPPI/2022



13349

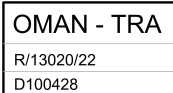
Paraguay



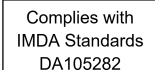
Pakistan



Oman



Singapore



Canada

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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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 :

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United States (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.
- (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.

Taiwan

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用

不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之

無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾

Thailand



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้รับใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคมหรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุคมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาตวิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498



nabp. | โทรคมนาคม
กำกับดูแลเพื่อประชาชน
Call Center 1200 (Inswr)

Declaration of Conformity

Keyless Ride Key

For all Countries without EU

Model name: HUF5794

Technical information

Frequenzy band: 433,92 MHz

Output/Transmission Power:

10 mW

Manufacturer and Address

Huf Hülsbeck &

Fürst GmbH & Co. KG

Steeger Str. 17,

42551 Velbert, Germany

Oman

OMAN - TRA

R/13021/22

D100428

Morocco

AGREE PAR L'ANRT MAROC

Numéro d'agrément: MR00031289ANRT2022

Date d'agrément: 06/01/2022

Nigeria

Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

United Arab Emirates



TRA - United Arab Emirates

Dealer ID: DA36976/14

TA RTTE: ER04909/22

Model: HUF5794

Type: BMW



Malaysia



Philippines



NTC

Type Approved

No. ESD-RCE-2228693

South Africa



TA-2022/0252

APPROVED

Vietnam



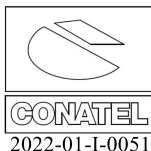
Indonesia

81598/SDPPI/2022



13349

Paraguay



Pakistan



Belarus



Serbia



Singapore

Complies with
IMDA Standards
DA105282

Canada

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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United States (USA)

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Thailand



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กำกับดูแลเพื่อประชาชน
Call Center 1200 (Inswr)

Declaration of Conformity

Keyless Ride ECU

For all Countries without EU

Model name: HUF8465

Technical information

Frequenzy band: 134,45 kHz
Output/Transmission Power:
42 dBµV/m

Manufacturer and Address

Huf Hülsbeck &
Füirst GmbH & Co. KG
Steeger Str. 17,
42551 Velbert, Germany

Argentina

R. RAMATEL

H-27885

Morocco

AGREE PAR L'ANRT MAROC
Numéro d'agrément: MR 9389 ANRT 2014
Date d'agrément: 24/06/2014

Nigeria

Connection and use of this communications
equipment is permitted by the Nigerian
Communications Commission

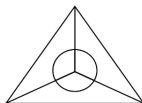
United Arab Emirates



TRA – United Arab Emirates

Dealer ID: DA36976/14
TA RTTE: ER59309/17
Model: HUF8465
Type: ELV incl. ECU

Malaysia



MCMC
HIDF17000037

Philippines



NTC

Type Approved
No. ESD-1409281C

South Africa



TA-2014/886

APPROVED

Vietnam



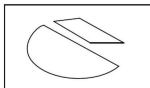
Indonesia

81555/SDPPI/2022



13349

Paraguay



CONATEL

2020-05-I-0278

Singapore

Complies with
IMDA Standards
DA101586

Canada

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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;
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United States (USA)

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Taiwan

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Thailand



nabp.

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nabp. | โทรคมนาคม
กำกับดูแลเพื่อประชาชน
Call Center 1200 (InsWRI)

Declaration of Conformity

Keyless Ride Key

For all Countries without EU

Model name: HUF5750

Technical information

Frequenzy band: 434,42 MHz

Output/Transmission Power:

10 mW

Manufacturer and Address

Huf Hüsbeck &

Fürst GmbH & Co. KG

Steeger Str. 17,

42551 Velbert, Germany

Argentina

CNC COMISIÓN NACIONAL
DE COMUNICACIONES

H-17115

Morocco

AGREE PAR L'ANRT MAROC

Numéro d'agrément: MR 8851 ANRT 2014

Date d'agrément: 17/01/2014

Nigeria

Connection and use of this communications
equipment is permitted by the Nigerian
Communications Commission

United Arab Emirates



TRA – United Arab Emirates

Dealer ID: DA36976/14

TA RTE: ER57698/17

Model: HUF5750

Type: RF transceiver for BMW Motorcycles

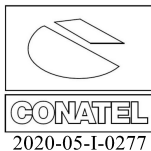


Malaysia



MCMC
HIDF17000037

Paraguay



CONATEL

2020-05-I-0277

Philippines



NTC

Type Approved

No. ESD-1408693C

Belarus



South Africa



TA-2013/1674

APPROVED

Vietnam



THACO AUTO
C900248

ICT

Singapore

Complies with
IMDA Standards
DA101586

Indonesia

81556/SDPPI/2022



13349

Serbia



M005 19

Canada

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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Taiwan

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Thailand



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กำกับดูแลเพื่อประชาชน
Call Center 1200 (InsWร)

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:

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- (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.

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276 INDEX

A

Abbreviations and symbols, 4

ABS

Displays, 53

Indicator lights, 53

Self-diagnosis, 150

Technology in detail, 166

Adaptive front lighting, 178

Ambient temperature, 39

Anti-theft alarm system

Indicator light, 25

Operating, 75

Audio system

Indicator light, 58

Switching on and off, 130

Auxiliary headlight

Operating, 74

Operating element, 22

B

Battery

Charging connected

battery, 201

Charging disconnected

battery, 202

Connecting to vehicle, 203

Disconnecting from

vehicle, 203

Indicator lights, 40, 41

Installing, 204

Maintenance instructions, 200

Position on vehicle, 21

Removing, 203

Technical data, 231

Bluetooth, 115

Helmet, 136

Pairing, 115

Brake fluid

Checking the front fill

level, 188

Checking the rear fill

level, 189

Front expansion tank, 19

Rear expansion tank, 19

Brake pads

Checking the front, 185

Checking the rear, 186

Running in, 152

Brake temperature

Indicator light, 57

Brakes

ABS Pro in detail, 169

ABS Pro, 155

Adjusting the handlebar

lever, 141

Checking function, 185

Checking operation, 185

Safety instructions, 153

Technical data, 229

Break-in, 152

C

Care

Care products, 214

Chrome, 216

Paint preservation, 217

Washing the vehicle, 214

Case

Operating, 91

Central locking

Operating, 87

Operating element, 23, 24

Charging storage compartment

Position on vehicle, 20

Chassis

Technical data, 228

- Check Control
 - Dialog, 31
 - Display, 31
- Checklist, 148
- Clock, 114
- Clutch
 - Adjusting the handlebar lever, 141
 - Checking function, 190
 - Fluid reservoir, 18
 - Technical data, 227
- Communication systems
 - Helmet, 136
- Coolant
 - Checking the fill level, 190
 - Filling level indicator, 19
- Cruise control
 - Indicator light, 58

D

- Diagnostic socket
 - Detaching, 205
 - Fastening, 206
- Dimensions
 - Technical data, 232
- DTC, 78
 - Indicator lights, 54, 55
 - Self-diagnosis, 151
 - Technology in detail, 169

DWA

- Indicator lights, 43, 44
- Technical data, 231
- Dynamic engine brake control, 171

E

- Electrical system
 - Technical data, 231

- Emergency call
 - automatically, for a heavy fall, 72
 - automatically, for a minor fall, 71
- Indicator lights, 52
- Language, 70
- Notes, 11
- Operating element, 23
- Emergency-off switch, 23, 24
 - Operating, 69
- Engine
 - Indicator lights, 46, 47
 - Starting, 149
 - Technical data, 226
- Engine oil
 - Checking the fill level, 183
 - Electronic oil-level check, 44
 - Indicator light for engine oil level, 44
 - Oil filler opening, 19
 - Oil level dipstick, 19
 - Technical data, 226
 - Topping up, 185
- Engine temperature, 45
- ESA
 - Operating, 79
 - Technology in detail, 171

F

- Fall sensor
 - Indicator light, 51
- Frame
 - Technical data, 228
- Front wheel stand
 - Installing, 183

278 INDEX

Fuel

- Fuel quality, 156
- Oil filler opening, 20
- refueling with Keyless Ride, 157, 158, 159
- Technical data, 225

Fuel filler cap emergency release, 160

Fuel reserve

- Indicator lights, 59
- Range, 112

Fuses

- Position on vehicle, 21
- Replacing, 204
- Technical data, 231

G

Gearshift assistant, 153, 175

- Gear not trained, 59
- Riding, 153
- Technology in detail, 175

H

Hazard warning flasher

- Operating, 74
- Operating element, 22

Headlight courtesy delay

- feature, 73

Heated grips

- Operating, 88

Hill Start Control

- automatically deactivated, 56
- cannot be activated, 56
- Hill Start Control, 84
- Indicator and warning lights, 56

Hill Start Control Pro, 176

- Operating, 84
- Technology in detail, 176

Horn, 22

I

Ignition

- Position on vehicle, 20

Immobilizer

- Spare key, 66

Indicator lights, 25

- ABS, 53
- Anti-theft alarm system, 43
- Audio system, 58
- Brake temperature, 57
- Cruise control, 58
- DTC, 54, 55
- DWA, 43, 44
- Emergency call, 52
- Engine control, 46, 47
- Engine electronics, 46
- Engine oil level, 44
- Engine temperature, 45
- External temperature warning, 39
- Fall sensor, 51
- Faulty light source, 42
- Fuel reserve, 59
- Gear not trained, 59
- Hill Start Control, 56
- Keyless Ride, 40
- Layout, 31
- Light control unit failed, 43
- My Vehicle, 118
- Overview, 28
- RDC, 49
- Service, 60
- Side stand, 52

- Tire Pressure Monitor (TPM), 49, 50, 51
- Vehicle voltage, 40, 41
- Instrument cluster
 - Overview, 25
 - Photodiode, 25

J

- Jump-starting, 199

K

- Keyless Ride
 - Battery of radio-operated key is drained, 67
 - Electronic immobilizer EWS, 66
 - If radio-operated key is lost, 67
 - Indicator light, 39, 40
 - Indicator lights, 40
 - Locking the steering lock, 64
 - Turning on the ignition, 65
 - Unlocking the fuel cap, 157, 158, 159
- Keys, 64

L

- Light sources
 - Indicator lights, 42
 - Replacing the LED light source, 199
 - Technical data, 231
- Lights
 - Ground light, 73
 - Headlight courtesy delay feature, 73
 - Headlight flasher, 73
 - High beams, 73
 - Low beams, 72

- Operating element, 22
- Parking lights, 72
- Roadside parking lights, 73
- Loudspeaker
 - Relationship to Bluetooth, 132
 - Switching off, 132
- Luggage
 - Loading information, 146

M

- Maintenance
 - General notes, 182
 - Maintenance schedule, 240
- Maintenance confirmations, 242
- Maintenance intervals, 238
- Media
 - Operating, 124
- Menu
 - Going to, 108
- Mirrors
 - Setting, 140
- Mobility Services, 238
- Motorcycle
 - Cleaning, 212
 - Lashing down, 161
 - Parking, 155
 - Putting into operation, 217
 - Storage, 217
 - Vehicle care, 212
- Multifunction switch
 - Overview, left, 22
 - Overview, right, 23, 24

N

- Navigation
 - Operating, 122

280 INDEX

O

- Onboard computer, 121
- Onboard vehicle toolkit
 - Contents, 182
 - Position on vehicle, 21
- Outside temperature, 39
- Overview of warning indicators, 33
- Overviews
 - Indicator and warning lights, 28
 - Instrument cluster, 25
 - Left side of vehicle, 18
 - Left-side multifunction switch, 22
 - My Vehicle, 118
 - Right side of vehicle, 19
 - Right-hand multifunction switch, 23, 24
 - TFT display, 29, 30
 - Underneath the seat, 21

P

- Pairing, 115
- Phone
 - Operating, 125
- Pre-Ride-Check, 150
- Programmable memory
 - buttons, 126
 - Assigning functions, 127
 - Position on vehicle, 20
- Pure Ride
 - Overview, 29

R

- Radio
 - Adding a favorite, 131
 - Selecting a source, 130

- Radio-operated key
 - Indicator lights, 40
 - Replacing the battery, 68
- RDC
 - Indicator lights, 49, 50, 51
 - Technology in detail, 173
- Rear-wheel drive
 - Technical data, 228
- Refueling
 - Fuel quality, 156
 - with Keyless Ride, 157, 158, 159
- Reverser, 85
 - Operating element, 22
- Rider's seat
 - Height adjustment, 21
- Riding mode
 - Operating element, 23, 24
 - Setting, 79
 - Technology in detail, 172
- Road sign detection, 111

S

- Safety information
 - For riding, 146
 - On braking, 153
- Satellite radio
 - Availability, 134
 - Playing stored station, 136
 - Saving a station, 135
 - Selecting a category and station, 135
 - Signal strength, 135
 - Subscribing to a station, 134
 - System messages, 136
- Seat
 - Installing, 91
 - Removing, 91
 - Unlocking, 18

- Seat heating
 - Operating, 88
 - Service, 237
 - Indicator lights, 60
 - Reporting safety defects, 236
 - Service History, 237
 - Service display, 59
 - Shifting gears
 - Upshift recommendation, 112
 - Socket
 - Information on use, 210
 - Position on vehicle, 19
 - Sound settings, 133
 - Spark plugs
 - Technical Data, 231
 - Speed control
 - Operating, 81
 - Operating element, 22
 - Split screen, 112
 - Selecting the display, 112
 - Turning off, 113
 - Turning on, 112
 - Start, 149
 - Operating element, 23, 24
 - Status bar, top, 110
 - Setting, 109
 - Storage compartment
 - Operating, 97
 - Position on vehicle, 18, 19
 - Switching off, 155
- T**
- Tachometer
 - Tachometer, 111
 - Technical data
 - Anti-theft alarm system, 231
 - Battery, 231
 - Brakes, 229
 - Bulbs, 231
 - Clutch, 227
 - Dimensions, 232
 - Electrical system, 231
 - Engine, 226
 - Engine oil, 226
 - Frame, 228
 - Fuel, 225
 - Rear-wheel drive, 228
 - Running gear, 228
 - Spark plugs, 231
 - Transmission, 227
 - Weights, 232
 - Wheels and tires, 229
 - TFT display, 20, 25
 - Operating, 108, 109, 112, 113
 - Operating element, 22
 - Overview, 29, 30
 - Selecting the display, 105
 - Tire Pressure Control TPC/RDC
 - Display, 47
 - Tires
 - Checking tire pressure, 191
 - Checking tread depth, 191, 192
 - Inflation pressure table, 21
 - Inflation pressures, 230
 - Recommendation, 191
 - Running in, 152
 - Technical data, 229
 - Topcase
 - Operating, 94
 - Torques, 223
 - Transmission
 - Technical data, 227
 - Troubleshooting chart, 220

282 INDEX

Turn signals

Operating, 75

Operating element, 22

Type plate

Position on vehicle, 19

V

Values

Display, 31

Vehicle identification number

Position on vehicle, 19

Vehicle voltage, 40, 41

Volume

Adapting to speed, 133

Setting, 132

W

Warning lights, 25

Overview, 28

Weights

Payload table, 21

Technical data, 232

Wheels

Check wheel rims, 192

Checking rims, 192

Installing front wheel, 194

Installing the rear wheel, 197

Removing front wheel, 193

Removing the rear wheel, 197

Size change, 192

Technical data, 229

WiFi, 117

Wind deflection wing

Operating, 90

Position on vehicle, 18

Windshield

Operating element, 22

Setting, 140

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 will be entertained as a result of such discrepancies. Dimensions, weights, fuel consumption and performance data are quoted to the customary tolerances.

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

Errors and omissions excepted.

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WARNING

Harmful substances

Operating and preventive maintenance of a passenger vehicle or off-road vehicle can expose you to substances such as exhaust gases, carbon monoxide, phthalates and lead, which are known to the State of California to be carcinogenic as well as detrimental to childbirth and reproduction.

- To minimize exposure, avoid breathing exhaust gases, do not put the engine in Neutral except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.
- Further information is available at:

www.P65Warnings.ca.gov/passenger_vehicle

Important data for refueling stop:

Fuel

Recommended fuel quality	Premium unleaded (max. 15% ethanol, E15) 89 AKI (95 ROZ/RON) 90 AKI
Alternative fuel quality	Regular unleaded (restrictions with regard to power and fuel consumption) (max 15% ethanol, E10/E15) 87 AKI (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)

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

