



BMW Motorrad



Rider's manual

R nineT

Motorcycle/Retailer Data

Motorcycle Data

Model

Vehicle identification number

Color number

Initial registration

License plate

Retailer Data

Contact in Service

Ms./Mr.

Phone number

Retailer's address/phone number (company stamp)

Welcome to BMW

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

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

Documentation confirming performance of maintenance work is a precondition for generous handling of out-of-warranty claims and goodwill warranty treatment. 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.

Suggestions and criticism

Should you have any questions about your vehicle, your authorized BMW Motorrad retailer is always happy to provide you with advice and assistance.

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

BMW Motorrad.

01 40 1 614 977



Table of Contents

1 General instructions	5	3 Displays	23	Automatic Stability Control (ASC)	54
Overview	6	Indicator and warning lights	24	Heated handlebar grips	55
Abbreviations and symbols	6	Multifunction displays	25	Rider and passenger seats	56
Equipment	7	Warning lights	26	5 Setting	59
Technical data	7	Service display	35	Mirrors	60
Notice concerning current status	8	Riding time	35	Headlight	60
Additional sources of information	8	4 Operation	37	Clutch	61
Certificates and operating permits	8	Steering and ignition lock	38	Brakes	62
Data memory	8	Emergency on/off switch (kill switch)	40	Spring preload	63
2 Overviews	13	Lights	40	Damping	65
General view, left side	15	Hazard warning flashers	42	Adjustable footrest system	67
General view, right side	17	Turn indicators	42	6 Riding	73
Underneath the seat	18	Display	44	Safety information	74
Multifunction switch, left	19	Anti-theft alarm system (DWA)	49	Observe checklist	76
Multifunction switch, right	20	Clock	50	Starting	76
Instrument cluster	21	Date	51	Breaking in	79
		Adjusting brightness	52	Brakes	80
		Antilock Braking System (ABS)	53	Parking your motorcycle	81
				Refueling	81

Securing motorcycle for transport	83
---	----

7 Technology in detail 85

General notes	86
Antilock Brake System (ABS).....	86
Automatic Stability Control (ASC)	88

8 Maintenance 91

General notes	92
Tool kit	92
Front-wheel stand	93
Rear-wheel stand	94
Engine oil	95
Brake system	97
Clutch	102
Tires	102
Rims and tires.....	102
Wheels	103
Headlight.....	111
Light sources	112
Jump-starting	116
Battery	117
Fuses	119

Diagnostic connector.....	120
---------------------------	-----

9 Accessories 123

General notes	124
Sockets	124
Luggage	125
Passenger frame	125
Hump cover.....	130
Optional accessories	132

10 Care 133

Care products	134
Washing your motorcycle.....	134
Cleaning sensitive motorcycle parts.....	135
Paint care	136
Paint preservation	136
Store motorcycle.....	136
Return motorcycle to use	136

11 Technical data 139

Troubleshooting chart.....	140
Screw connections	141
Fuel	145
Engine oil	146
Engine	146

Clutch	147
Transmission	147
Rear-wheel drive	148
Frame	148
Chassis.....	149
Brakes	150
Wheels and tires	151
Electrical system	152
Dimensions	153
Weights	154
Performance data	154

12 Service 155

Reporting safety defects	156
BMW Motorrad Service ...	157
BMW Motorrad Service History	157
BMW Motorrad Mobility Services.....	158
Maintenance work.....	158
Maintenance schedule ...	161
Maintenance confirmations.....	162
Service confirmations	176

13 Appendix..... 179

Certificate for electronic

immobilizer 180

14 Index 182

General instructions

Overview	6
Abbreviations and symbols	6
Equipment	7
Technical data	7
Notice concerning current status	8
Additional sources of information	8
Certificates and operating permits ...	8
Data memory	8

Overview

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 back of the manual. If you would like to start with a quick overview of your motorcycle, this information has been provided in chapter 2. All maintenance and repair work carried out on your motorcycle will be documented in Chapter 12. Documentation confirming performance of scheduled maintenance is a precondition for generous handling of out-of-warranty claims and goodwill warranty treatment. When the time comes to sell your BMW, remember to hand over this Rider's Manual; it is an important part of the motorcycle.

Abbreviations and symbols



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



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



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



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



NOTICE Special information on operating and inspecting your motorcycle as well

as maintenance and adjustment procedures.



Indicates the end of an item of information.



Instruction.



Result of an activity.



Reference to a page with more detailed information.



Indicates the end of accessory or equipment-dependent information.



Tightening torque.



Technical data.

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.
NV	National-market version.
EWS	Electronic immobilizer.
DWA	Anti-theft alarm.
ABS	Anti-Lock Brake System.

Equipment

When you ordered your BMW motorcycle, you chose various custom equipment items. These Operating Instructions describes optional equipment (OE) offered by BMW and selected optional accessories (OA). This explains why the manual may also contain descriptions of equipment which you have not ordered. Please note, too, that your motorcycle might not be exactly as illustrated in this manual on account of country-specific differences. If your motorcycle features equipment that is not described here, you can find these features described in a separate manual.

Technical data

All dimensions, weights and performance data contained in these Operating Instructions refer to the German DIN standards and comply with their tolerance specifications.

The technical data and specifications in these Operating Instructions serve as points of reference. The vehicle-specific data may vary, for instance due to the selected optional equipment, national-market version or country-specific measuring procedures. Detailed values can be obtained from the registration documents and the signs on the vehicle or from your authorized BMW Motorrad retailer or other qualified service partner or specialist workshop. The information on the vehicle documents always takes precedence over the information in these Operating Instructions.

Notice concerning current status

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

Additional sources of information

BMW Motorrad retailers

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

Internet

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

Certificates and operating permits

The certificates for the vehicle and the official operating permits for possible accessories are available at **www.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 driving assistance, such as driver assistance systems. Control units also make comfort and infotainment functions possible.

Information about the stored or exchanged data can be obtained 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 used ConnectedDrive Account.

Data privacy laws

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

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

These locations may be:

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

Vehicle users may request information about the type of personal data that is stored, the purpose for which the data will be used and the source of the data.

This information can only be obtained by a registered owner or a person with written proof authorizing use of the vehicle.

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

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

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

The vehicle data is read out via the socket for onboard diagnosis

(OBD) required by law on the motorcycle.

Legal requirements for the disclosure of data

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

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

Operating data in the vehicle

Control units process data so that the vehicle can run.

Examples of this include:

- Status messages from the vehicle and its individual components, such as wheel RPM, wheel speed and deceleration
 - Environmental conditions, such as temperature
- The data is processed only in the vehicle itself and is usually temporary. The data is not stored beyond the period in which the vehicle is operating.

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

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

- Operating conditions of system components, such as fill levels and tire pressure
- Malfunctions and faults in key system components, such as lights and brakes
- Vehicle responses in specific driving situations, such as activation of dynamic driving 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 socket for onboard diagnosis (OBD) required by law on the motorcycle is used to read out the data.

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

The manufacturer also has product monitoring obligations arising from product liability law. The

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

Data input and data transfer in the vehicle

General information

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

Examples of this include:

- Windshield position settings
- Chassis and suspension adjustment settings

It is possible to introduce data into the vehicle entertainment and communication system via a smartphone, for instance.

Depending on the individual equipment, this includes:

- Multimedia data, such as music for playback
- Address book data for use in conjunction with a communication system or integrated navigation system
- Entered navigation destinations
- Data about the use of Internet services. This data can be stored locally in the vehicle or is on a device connected to the vehicle, such as a smartphone, USB stick or MP3 player. If this data is saved in the vehicle, it can be deleted at any time.

This data is transmitted to third parties only upon personal request as part of the use of online

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

Integrating mobile end devices

Depending on the equipment, mobile end devices connected to the vehicle, such as smartphones, are controlled using the vehicle's operating elements. This enables audio and visual output from mobile end devices through the multimedia system. At the same time, certain information is transmitted to the mobile end device. This includes for instance position data and other general vehicle data, depending on the type of integration, and makes it possible to optimize the use of 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 online services and apps provided by the vehicle manufacturer or other providers.

Vehicle manufacturer services

In the case of the vehicle manufacturer's online services, the particular functions are described at the appropriate location, such as in the Operating Instructions or on 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

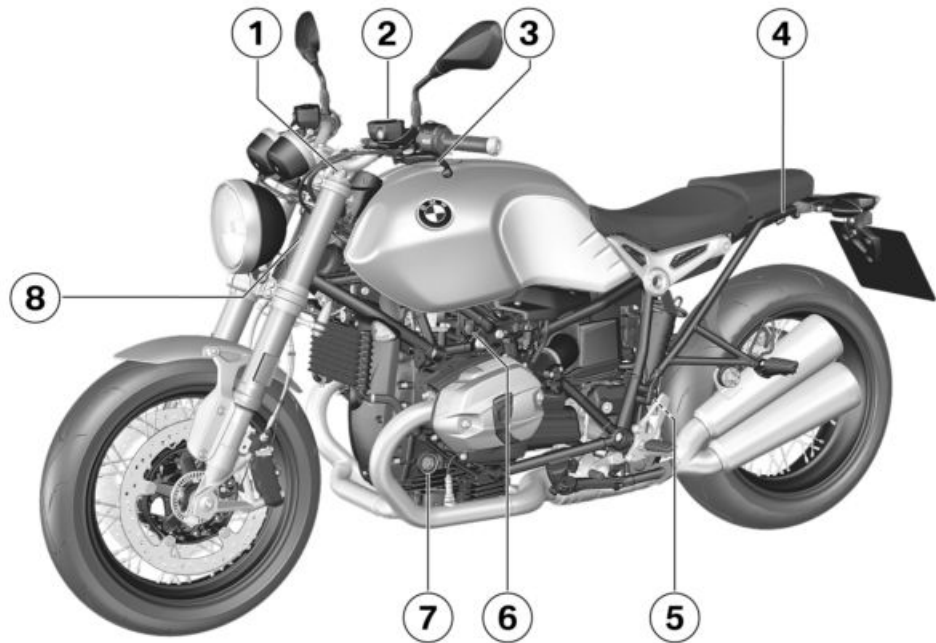
the case for legally prescribed functions.

Services of other providers

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

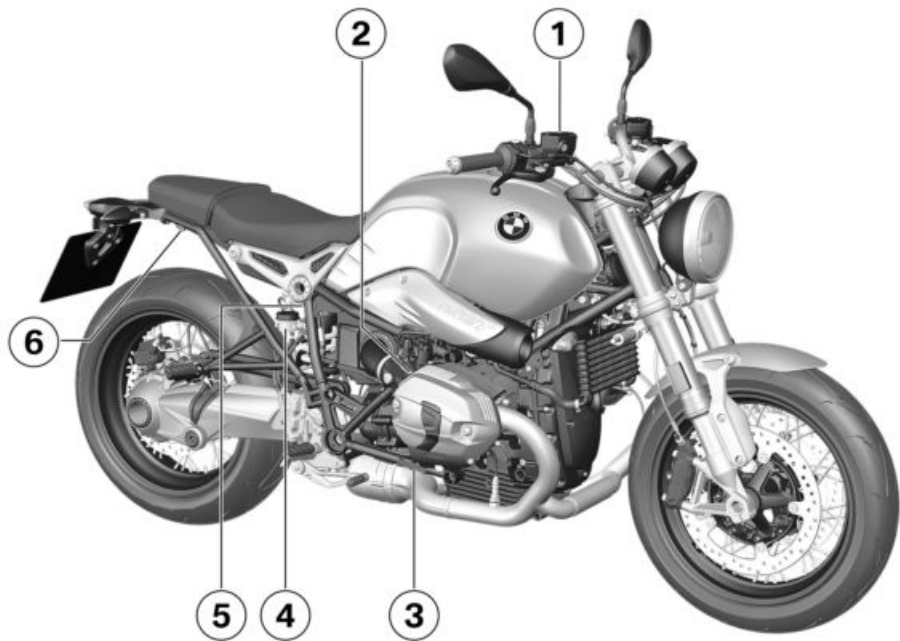
Overviews

General view, left side	15
General view, right side	17
Underneath the seat	18
Multifunction switch, left	19
Multifunction switch, right	20
Instrument cluster	21



General view, left side

- 1 Adjusting damping on front wheel (➡ 65)
- 2 Checking clutch function (➡ 102)
- 3 Refueling (➡ 82)
- 4 Removing passenger seat frame (➡ 125)
- 5 Adjusting damping on rear wheel (➡ 66)
- 6 Sockets (➡ 124)
- 7 Check engine oil level (➡ 95)
- 8 Type plate (left on the steering-head bearing)

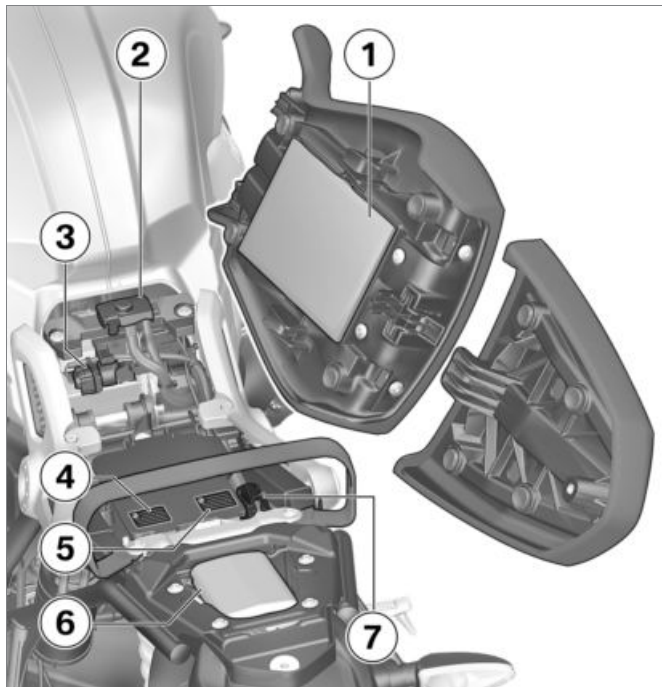


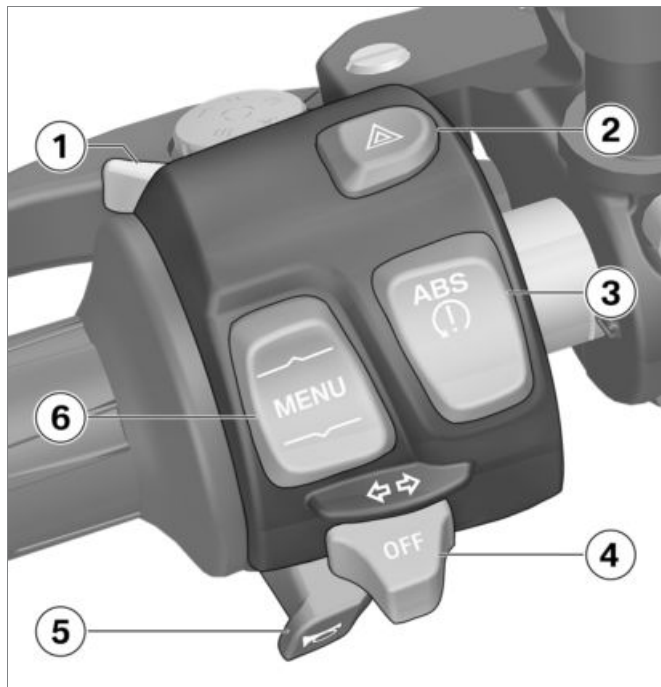
General view, right side

- 1 Checking front brake fluid level (➡ 100)
- 2 Topping up engine oil (➡ 96)
- 3 Vehicle identification number (front right, at the bottom of the rear frame)
- 4 Checking rear brake fluid level (➡ 101)
- 5 Adjusting spring preload (➡ 64)
- 6 Remove passenger seat (➡ 56)

Underneath the seat

- 1 Operating Instructions
- 2 Jump-start terminal
( 116)
- 3 Fuse box
Replace fuses ( 119).
- 4 Tire inflation pressure table
- 5 Payload table
- 6 Onboard vehicle toolkit
( 92)
- 7 Diagnostic socket
Removing the diagnostic
connector ( 120).



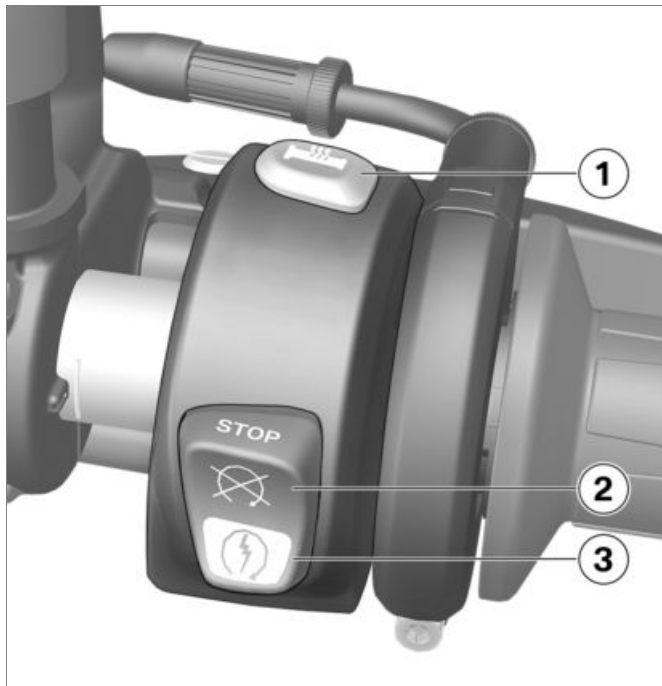


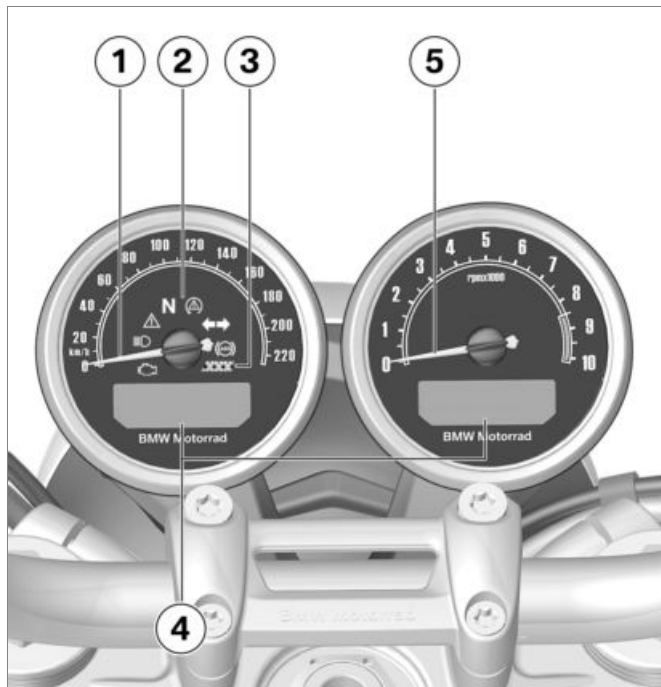
Multifunction switch, left

- 1 High beam and headlight flasher (➡ 41)
- 2 Hazard warning lights system (➡ 42)
- 3 Deactivate ABS (➡ 53). Deactivating ASC (➡ 54).
- 4 Turn indicators (➡ 42)
- 5 Horn
- 6 Rocker button MENU
Multifunction displays (➡ 25)
Selecting displays (➡ 44)
Resetting the trip odometer (➡ 47)
Calling up the SETUP menu (➡ 50)

Multifunction switch, right

- 1 – with heated grips^{OE}
Operating heated grips (➡ 55).
- 2 Emergency on/off switch (kill switch) (➡ 40)
- 3 Starter button
Starting engine (➡ 76).





Instrument cluster

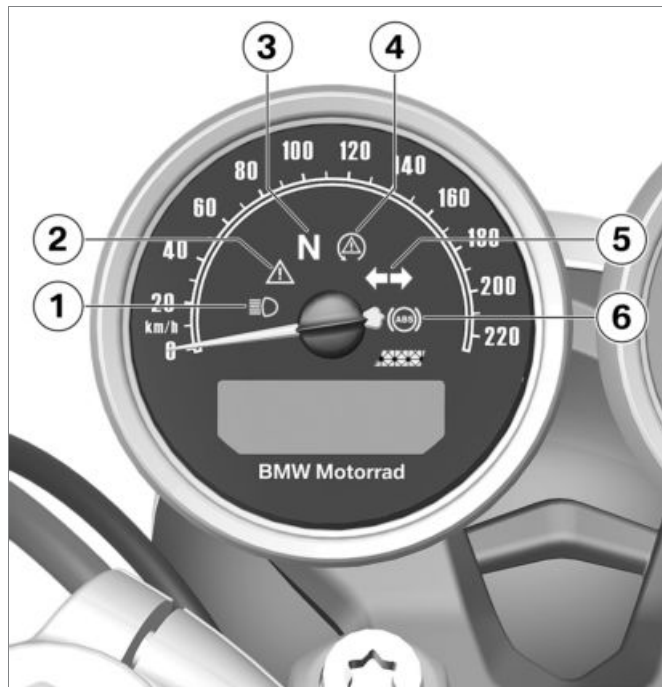
- 1 Speedometer
- 2 Indicator and warning lights (➡ 24)
- 3 Photodiode for the brightness control in the multifunction displays
- 4 Multifunction displays (➡ 25)
- 5 Tachometer

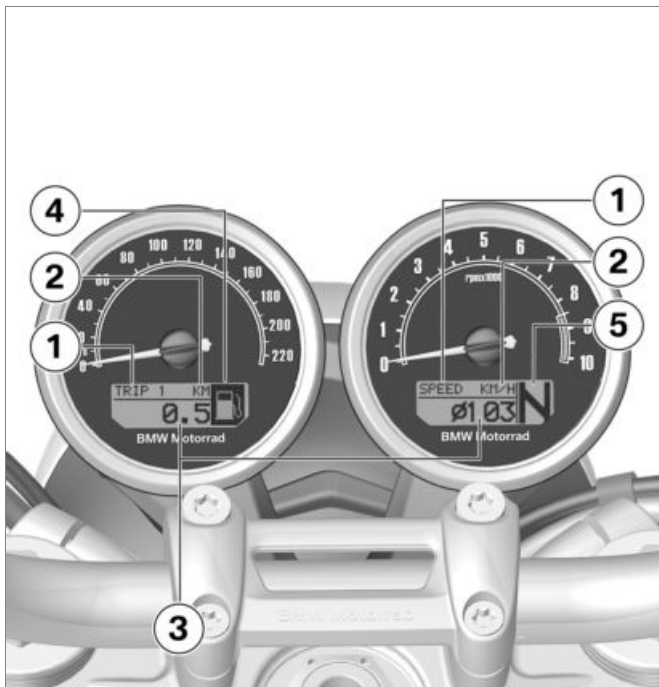
Displays

Indicator and warning lights	24
Multifunction displays	25
Warning lights	26
Service display	35
Riding time	35

Indicator and warning lights

- 1 High-beam headlight indicator light
High beam and headlight flasher (➡ 41).
- 2 General warning light
Display in conjunction with warning symbols in multi-function display (➡ 26)
- 3 Neutral indicator light
- 4 ASC indicator and warning light (➡ 32)
- 5 Turn signal indicator light
Operating turn signals (➡ 42).
- 6 ABS indicator and warning light





Multifunction displays

- 1** Onboard computer
Selecting displays in the speedometer (➡ 44).
- 2** Unit
- 3** Value
- 4** Warning symbol
Shown in conjunction with general warning light (➡ 26)
- 5** Gear indicator

Warning lights

Display

Warnings are displayed with appropriate warning lights.

If several warnings are present, all corresponding warning lights and warning symbols are displayed.

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

The general warning light lights up or flashes depending on the urgency of the warning.



Warnings that do not have their own warning light are shown as a warning symbol **1** in the multifunction display in conjunction with the general warning light **2**.

Overview of warning indicators

Indicator and warning lights	Display text	Meaning
 General warning light lights up.	 Key symbol is displayed.	Electronic immobilizer is active (→ 30)
 General warning light flashes.	 Temperature symbol is displayed.	Coolant temperature too high (→ 30)
 General warning light lights up.	 Engine symbol appears on the display.	Engine in emergency-operation mode (→ 30)
 General warning light flashes.	 Engine symbol appears on the display.	Engine warning (→ 31)
 General warning light lights up.	 Battery symbol is displayed.	Vehicle voltage too low (→ 31)
 General warning light lights up.	 Lamp symbol is displayed.	Light source defective (→ 31)
 ABS indicator light flashes.		ABS self-diagnosis not completed (→ 32)

Indicator and warning lights	Display text	Meaning
 ABS indicator light lights up.		ABS switched off (→ 32)
 ABS indicator light lights up.		ABS error (→ 32)
 ASC indicator and warning light flashes rapidly.		ASC intervention (→ 32)
 ASC indicator and warning light flashes slowly.		ASC self-diagnosis not completed (→ 33)
 ASC indicator and warning light lights up.		ASC switched off (→ 33)
 ASC indicator and warning light lights up.		ASC error (→ 33)
	 Symbol for DWA battery is displayed.	Anti-theft alarm system battery discharged (→ 33)

Indicator and warning lights

Display text

Meaning



General warning light lights up.



Symbols for fuel reserve and odometer TRIP R are displayed.

Fuel down to reserve (||||➔ 34)



General warning light lights up.



Symbol for service is displayed.

Service date missed (||||➔ 34)

Electronic immobilizer is active



General warning light lights up.



Key symbol is displayed.

Possible cause:

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

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

Coolant temperature too high



General warning light flashes.



Temperature symbol is displayed.



ATTENTION

Riding with overheated engine

Engine damage

- Be sure to observe the measures listed below.◀

Possible cause:

The engine oil temperature is too high.

- If possible, continue driving in the part-load range to cool down the engine.
- Should the engine oil temperature frequently be too high, have the fault rectified as quickly as possible by an authorized workshop, preferably an authorized BMW Motorrad Retailer.

Engine in emergency-operation mode



General warning light lights up.



Engine symbol appears on the display.



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 mode.

- Continued driving is possible, however the accustomed en-

gine power output may not be available.

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

Engine warning



General warning light flashes.



Engine symbol appears on the display.



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 work-

shop, preferably an authorized BMW Motorrad retailer.◀

Possible cause:

The engine control unit has diagnosed a fault, which can lead to a severe secondary fault. The engine is in the emergency-operation mode.

- Avoid high load and engine speed ranges if possible.
- Have the malfunction corrected as soon as possible at an authorized service facility, preferably an authorized BMW Motorrad Retailer.

» Continued driving is possible, however it is not recommended.

Vehicle voltage too low



General warning light lights up.



Battery symbol is displayed.



WARNING

Failure of vehicle systems

Accident hazard

- Do not continue riding.◀

Possible cause:

Alternator or alternator belt is faulty.

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

Light source defective



General warning light lights up.



Lamp symbol is displayed.



WARNING

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

Safety risk

- Replace defective bulbs as soon as possible; it is best always to carry a complete set of spare bulbs on the motorcycle. ◀

Possible cause:

Bulb defective

- Locate defective bulb with visual check.
- Replacing low and high-beam bulbs in headlight (▮▮▮ 112).
- Replacing the bulbs for parking lights (▮▮▮ 113).
- Replacing front and rear turn indicator bulbs (▮▮▮ 114).
- Replacing LED tail light (▮▮▮ 116).

ABS self-diagnosis not completed



ABS indicator light flashes.

Possible cause:

The ABS is not available because the self-diagnosis has not been completed. To check the wheel sensors, the motorcycle must be driven a few yards.

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

ABS switched off



ABS indicator light lights up.

Possible cause:

The ABS system has been deactivated by the rider.

- Activating ABS (▮▮▮ 53).

ABS error



ABS indicator light lights up.

Possible cause:

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

- It is possible to continue riding if you make allowance for the failed ABS function. You should also take account of the additional information on situations that can lead to an ABS fault (▮▮▮ 87).
- Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

ASC intervention



ASC indicator and warning light flashes rapidly.

ASC has detected instability at the rear wheel and responded

by reducing the torque. The ASC indicator and warning light flashes longer than the ASC intervention lasts. This feature continues to furnish the rider with visual feedback confirming that the system has initiated active closed-loop intervention even after the critical situation has passed.

ASC self-diagnosis not completed



ASC indicator and warning light flashes slowly.

ASC switched off



ASC indicator and warning light lights up.

Possible cause:

The ASC system has been deactivated by the driver.

- Switch on ASC.

ASC error



ASC indicator and warning light lights up.

Possible cause:

The ASC control unit has detected a fault. The ASC function is not available.

- You may continue riding. It must be noted that the ASC function is not available. You should also take account of the additional information on situations that can lead to an ASC fault (► 88).
- Have the malfunction corrected as soon as possible at a specialist workshop, preferably an authorized BMW Motorrad retailer.

Anti-theft alarm system battery discharged

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



Symbol for DWA battery is displayed.



NOTICE

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

Possible cause:

The DWA battery no longer has any charging capacity. Operation of the DWA is no longer guaranteed when the vehicle battery is disconnected.

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

Fuel reserve

The fuel quantity in the fuel tank when the low-fuel warning light switches on depends on the driving dynamics. The more the fuel moves around in the fuel tank (due to frequent changes of the banking angle, frequent braking and acceleration), the harder it is to accurately determine the fuel reserve. For this reason, the fuel reserve cannot be determined precisely.



After the low-fuel warning light switches on, the odometer for the fuel reserve **TRIP R** is automatically shown. The distance that can still be traveled with the fuel reserve depends on the riding style (on the consumption) and on the fuel quantity that was still available at the time of switch-on. The odometer for the fuel reserve is reset when the fuel

quantity after refueling is greater than the fuel reserve.

Fuel down to reserve



General warning light lights up.



Symbols for fuel reserve and odometer **TRIP R** are displayed.



WARNING

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

Accident hazard, damage to catalytic converter

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

Possible cause:

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



Reserve fuel quantity

Approx. 3.2 quarts (Approx. 3 l)

- Refueling procedure (▶▶▶ 82).

Service date missed



General warning light lights up.



Symbol for service is displayed.

Service display



If service is due within a month, the symbol for service **3** and the service date **2** are shown. The SERV T display **1** is briefly shown after the Pre-Ride-Check.



If service is due within 700 miles, the symbol for service **3** and the remaining kilometer range **2** will be displayed and counted down in steps of 100 miles. The SERV D display **1** is briefly shown after the Pre-Ride-Check.



NOTICE

If the service display appears more than one month before the service date, the date stored in the instrument cluster must be set. This situation may occur if the battery is disconnected from the vehicle. ◀

Riding time



If the riding time lasts longer than one hour, the unit **1** changes from M:S to H:M. Value **2** then shows hours and minutes.

Operation

Steering and ignition lock	38
Emergency on/off switch (kill switch)	40
Lights	40
Hazard warning flashers	42
Turn indicators	42
Display	44
Anti-theft alarm system (DWA)	49
Clock	50
Date	51
Adjusting brightness	52
Antilock Braking System (ABS)	53
Automatic Stability Control (ASC)	54
Heated handlebar grips	55
Rider and passenger seats	56

Steering and ignition lock

Keys

You are provided with 2 ignition keys and one key for removing the passenger seat (► 56).

Should you lose your keys, refer to the information regarding the electronic immobilizer EWS (► 39).

A single key fits the steering and ignition lock and the fuel filler cap.

Locking handlebars



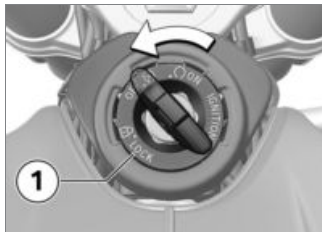
ATTENTION

Handlebars turned in wrong direction when motorcycle propped on side stand.

Component damage caused by tipping over

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

- Otherwise the angle of the ground determines whether the handlebars are set to the left or right. ◀
- Turn handlebars to full left or right lock position.



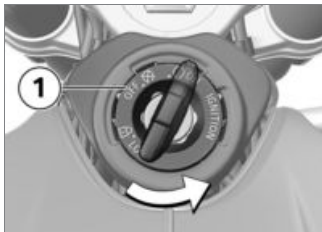
- Turn the ignition key to position **1** while moving the handlebars slightly.
 - » Ignition, lights and all electrical circuits switched off.
 - » Steering lock locked.
 - » Ignition key can now be removed.

Switching on ignition



- Turn key to position **1**.
 - » Parking lights and all function circuits switched on.
 - » Engine can be started.
 - » Pre-Ride-Check is carried out. (► 77)
 - » ABS self-diagnosis is performed. (► 78)

Switch off ignition



- Turn key to position **1**.
 - » Light switched off.
 - » Handlebars not locked.
 - » Ignition key can now be removed.
 - » Electrically powered accessories remain operational for a limited period of time.
 - » Battery can be recharged via onboard socket.

Electronic immobilizer (EWS)

The motorcycle's electronics monitor the data stored in the ignition key through a ring antenna incorporated in the steering and ignition lock. The engine control unit does not enable engine start until this key has been recognized as "authorized" for your motorcycle.



NOTICE

A further key attached to the same ring as the ignition key used to start the engine could "irritate" the electronics, in which case the enabling signal for starting is not issued. The warning is displayed in the multifunction display with the key symbol.

Always store further vehicle keys separately from the ignition key.◀

If you lose one of your motorcycle keys, you can have it disabled by your authorized BMW motorcycle retailer.

When having a key disabled you should also bring all of the motorcycle's remaining ignition keys with you. The engine can no longer be started using a disabled key; however, a disabled key can be enabled again.

Ignition keys are available only through an authorized BMW Motorrad retailer. The keys are part of an integrated security system, so the retailer is under an obligation to check the legitimacy of all applications for replacement/extra keys.

Emergency on/off switch (kill switch)



- 1 Emergency on/off switch (kill switch)



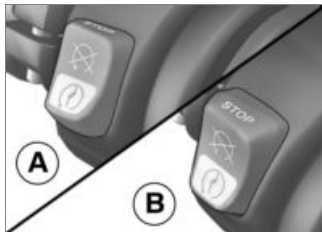
WARNING

Operation of the emergency ON/OFF switch when riding

Danger of falling due to blocking of rear wheel

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

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



- A Engine is switched off
B Operating position



NOTICE

The engine can only be started in the operating position.◀

Lights

Parking light and low-beam headlight

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



NOTICE

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

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



NOTICE

With the engine switched off, you can switch on the lights by switching on the high-beam headlight with the ignition switched on or by operating the headlight flasher.◀

High beam and headlight flasher



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

Parking lights

- Switch off ignition (➡ 39).



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

Headlight courtesy delay feature

- Turn off ignition.



- Immediately after turning off the ignition, pull switch **1** back and hold until the headlight courtesy delay feature turns on.
 - » The vehicle lights light up for one minute and then turn off automatically.
- This can be used after parking the vehicle in order to illuminate the path to the house door, for instance.

Hazard warning flashers

Operating hazard warning flashers



NOTICE

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



NOTICE

If a turn signal button is pressed when operating readiness is present, the turn signal function replaces the hazard warning lights function for the duration of operation. If the turn signal button is no longer pressed, the hazard warning lights function is activated again. ◀

- Switching on ignition (▶▶▶ 38).



- Press button **1** to switch on hazard warning flashers.
 - » Ignition can be switched off.
- Press button **1** again to turn off the hazard warning lights system.

Turn indicators

Operating turn signals

- Switching on ignition (▶▶▶ 38).



- Press button **1** to left to switch on left-side turn signals.
- Press button **1** to right to switch on right-side turn signals.
- Move button **1** to center position to switch off turn signals.

Comfort turn signals



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

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

- Speed is above 60 mph (100 km/h): after turn signal flashes five times.

When button **1** is pressed and held slightly longer to the right or left, the turn signals will only turn off automatically after reaching the distance depending on the speed.

Display

Selecting displays in the speedometer

Requirement

The motorcycle is stopped.

- Switching on ignition (➡ 38).
 - » The onboard computer is displayed.
- Briefly press button **1** repeatedly until desired value is displayed.

Possible displays:

- Total mileage: ODO
- Trip distance 1: TRIP 1
- Trip distance 2: TRIP 2
- Automatic trip distance: TRIP A, is automatically reset if at least 5 hours have passed since the ignition was switched off and the date has changed.
- Distance covered after reaching the fuel reserve: TRIP R, can only be selected for the fuel reserve.



- Engine temperature: `ENGTMP`
- Clock: `CLOCK`
- Call up menu for settings:
`SETUP ENTER`

Selecting displays in the rotational-speed sensor

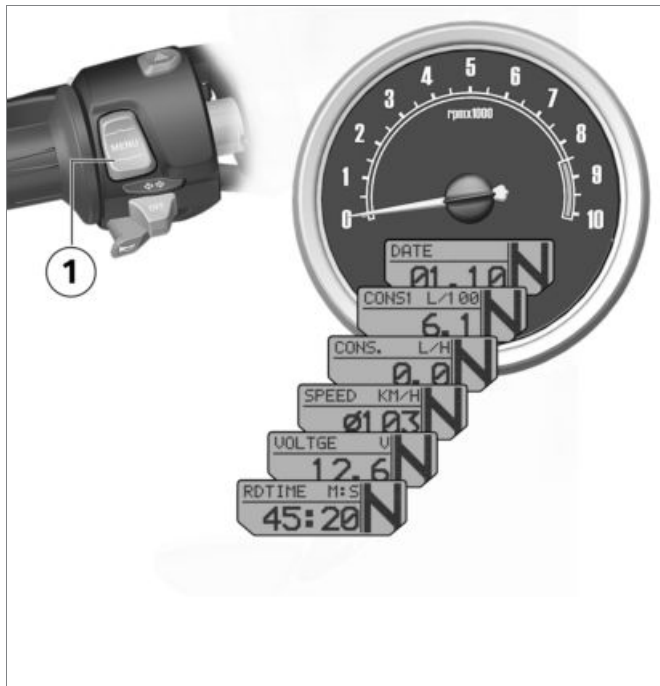
Requirement

The motorcycle is stopped.

- Switching on ignition (➡ 38).
 - » The onboard computer is displayed.
- Briefly press button **1** repeatedly until desired value is displayed.

Possible displays:

- Date: DATE
- Average fuel consumption: CONS1
- Current fuel consumption: CONS.
- Average speed: SPEED
- Vehicle voltage: VOLTGE
- Riding time: RDTIME



Resetting the trip odometer

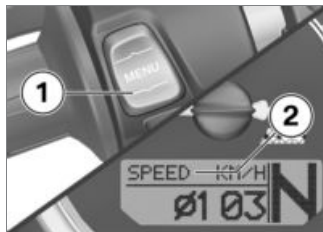
- Switching on ignition (III 38).



- Repeatedly press button **1** briefly until trip recorder **2** to be reset is displayed.
- Press and hold button **1** until trip recorder **2** is reset.

Resetting average speed

- Switching on ignition (III 38).



- Repeatedly press button **1** briefly until **SPEED** is displayed.
- Press and hold button **1** until the average speed **2** is reset.

Resetting average fuel consumption

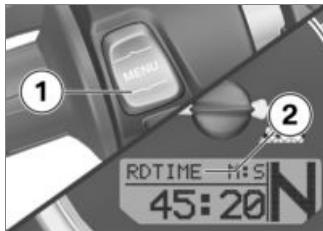
- Switching on ignition (III 38).



- Repeatedly press button **1** briefly until **CONS1** is displayed.
- Press and hold button **1** until average consumption **2** is reset.

Resetting riding time

- Switching on ignition (III 38).



- Repeatedly press button **1** briefly until **RD TIME** is displayed.
- Press and hold button **1** until driving time **2** is reset.

Anti-theft alarm system (DWA)

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

Activate DWA

- Switching on ignition (▮▮▮▮ 38).
- Adjust DWA (▮▮▮▮ 50).
- Turn off ignition.
- » If the DWA is activated, the DWA is automatically activated after the ignition is switched off.
- » Activation takes approximately 30 seconds to complete.
- Turn indicators are illuminated twice.
- Confirmation tone sounds twice (if programmed).
- » DWA is armed.

Alarm signal

The DWA alarm can be set off by:

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

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

The duration of the alarm signal is approx. 26 seconds. During the DWA alarm, an alarm tone sounds and the indicators flash. The type of alarm sound can be set by an authorized BMW Motorrad retailer.

If a DWA alarm was activated while the motorcycle was unattended, the driver is notified accordingly by an alarm tone sounding once when the ignition is switched on. The DWA LED then indicates the reason for the DWA alarm for one minute.

Light signals on DWA LED:

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

Deactivate DWA

- Switching on ignition (▮▮▮▮ 38).
- » Turn indicators light up once.
- » Confirmation tone sounds once (if programmed).
- » DWA is now switched off.

Adjust DWA

- Switching on ignition (➡ 38).



- Repeatedly press button **1** briefly until **SETUP ENTER** is displayed.
- Press and hold button **1** to open **SETUP**.
- » **SET DWA** is displayed.



- Press button **2** briefly to change the adjusted value. The following settings are available:
 - **DWA ON**: DWA is activated or is activated automatically when the ignition is switched off.
 - **DWA OFF**: DWA is deactivated.
- Press and hold button **1** to exit **SET DWA**.
- » **SETUP ENTER** is displayed.

Clock

Set clock



WARNING

Adjusting the clock while riding

Accident hazard

- Adjust the clock only when the motorcycle is stationary.◀
- Switching on ignition (➡ 38).



- Repeatedly press button **1** briefly until **SETUP ENTER** is displayed.

- Press and hold button **1** to open **SETUP**.
- Repeatedly press button **1** briefly until **SET CLOCK** is displayed.



- Press and hold button **2** until hours **3** flash.
- Briefly press button **1** to increment hours.
- Briefly press button **2** to decrement hours.
- » The hour is set.
- Press and hold button **2** until minutes **4** flash.

- Briefly press button **1** to increment minutes.
- Briefly press button **2** to decrement minutes.
- » The minutes are set.
- Press and hold button **2** until minutes no longer flash.
- » The clock is set.
- Press and hold button **1** to exit **SET CLOCK**.
- » **SETUP ENTER** is displayed.

Date

Set date

- Switching on ignition (☛ 38).



- Repeatedly press button **1** briefly until **SETUP ENTER** is displayed.
- Press and hold button **1** to open **SETUP**.
- Repeatedly press button **1** briefly until **SET DATE** is displayed.



- Press and hold button **2** until day **4** flashes.
- Briefly press button **1** to increment day.
- Briefly press button **2** to decrement day.
- » The day is set.
- Press and hold button **2** until month **3** flashes.
- Briefly press **1** to increment month.
- Briefly press button **2** to decrement month.
- » The month is set.

- Press and hold button **2** until SET YEAR is displayed.



- Briefly press **1** to increment year **5**.
- Briefly press button **2** to decrement year **5**.
- Press and hold button **2** until year no longer flashes.
- » The year is set.
- Press and hold button **1** to exit SET YEAR.
- » The date is set.
- » SETUP ENTER is displayed.

Adjusting brightness

Adjusting display brightness

- Switching on ignition (➡ 38).



- Repeatedly press button **1** briefly until SETUP ENTER is displayed.
- Press and hold button **1** to open SETUP.
- Repeatedly press button **1** briefly until SET BRIGHT is displayed.



ABS indicator light goes out, and starts to flash if self-diagnosis has not been completed.

- As an alternative, the ignition can also be turned off and then on again.



If the ABS indicator and warning light lights up after switching the ignition off and on and then continuing driving above the minimum speed, an ABS fault has occurred.

min 6 mph (min 10 km/h)

Automatic Stability Control (ASC)

Deactivating ASC

- Switching on ignition (➡ 38).



NOTICE

The ASC function can also be deactivated while riding.◀



- Press and hold button **1** until the ASC indicator and warning light **2** changes its display behavior.
- » The ABS setting remains unchanged.



ASC indicator and warning light begins to light up.

- Release button **1** within two seconds.



ASC indicator and warning light continues to be lit up.

» ASC is deactivated.

Switch on ASC



- Press and hold button **1** until the ASC indicator and warning light **2** changes its display behavior.



ASC indicator and warning light goes out; if self-diagnosis has not been completed, it begins to flash.

- Release button **1** within two seconds.

 ASC indicator and warning light remains off or continues to flash.

- » ASC activated.
- As an alternative, the ignition can also be switched off and then on again.



If the ASC indicator and warning light lights up after switching the ignition off and on and then continuing driving with the following minimum speed, a ASC fault has occurred.

min 6 mph (min 10 km/h)

Heated handlebar grips

– with heated grips^{OE}

Operating heated grips



NOTICE

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



NOTICE

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 engine (➡ 76).



- Press button **1** repeatedly until desired heating level **2** is shown.

The handlebar grips can be heated at two different levels.



100 % heating output



Approx. 50 % heater output

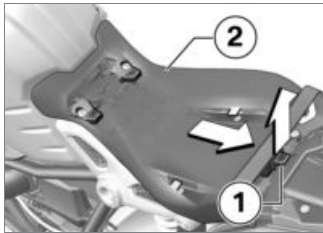
- » The 2nd heating level is used for fast heat-up of the grips; then the switch should be switched back to the 1st level.

- » If no further changes are made the selected heating level is adopted as the setting.
- To switch off heated grips, actuate button **1** repeatedly until heated grip symbol **2** is no longer shown in the display.

Rider and passenger seats

Remove rider's seat

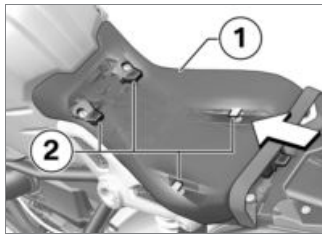
- Remove passenger seat (➡ 56).



- Pull locking mechanism **1** upwards.

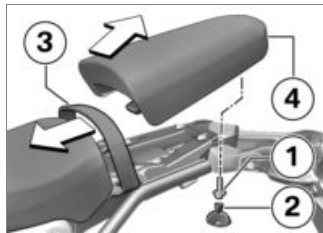
- Pull rider's seat **2** toward rear and remove.

Installing rider's seat



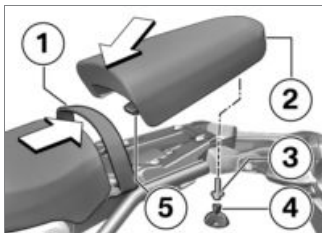
- Insert rider's seat **1** in the tabs (**arrows**).
- Press down firmly on rear region of rider's seat **1**.
- » Driver's seat clicks audibly into place.
- Install passenger seat (➡ 57).

Remove passenger seat



- Remove screw **1** using motorcycle seat key **2**.
- Pull grab strap **3** in direction of rider's seat and remove passenger seat **4** toward rear.

Install passenger seat



- Insert passenger seat **2** in rear frame making sure that tab **5** of passenger seat is seated in rear frame.
- Hand-tighten screw **1** using motorcycle seat key **4**.
- Pull grab strap **1** over passenger seat.

Setting

Mirrors	60
Headlight	60
Clutch	61
Brakes	62
Spring preload	63
Damping	65
Adjustable footrest system.....	67

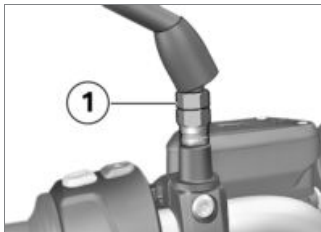
Mirrors

Adjusting mirrors



- Move mirror into desired position by twisting.

Adjusting mirror arm



- Slide protective cap up over screw connection on mirror arm.
- Loosen nut **1** with tool from vehicle tools.
- Turn mirror arm into desired position.
- Tighten nut **1** while holding mirror arm firmly.



Mirror (locknut) on adapter

16 lb/ft (22 Nm) (Left-hand thread)

- Slide protective cap over threaded fastener.

Headlight

Headlight adjustment, right-hand/left-hand traffic

This motorcycle's headlight features a symmetrical low beam. No special measures are required prior to operating the motorcycle in a country where traffic travels on the side of the road opposite to that of your home country (left-hand drive to right-hand drive or vice versa).

Headlight beam throw and spring preload

The headlight beam throw generally remains constant due to the adjustment of the spring preload to the load status.

However, in the case of very high payloads, the available spring

preload adjustment might not be adequate. If that is the case, the headlight beam throw must be adapted to the weight.



NOTICE

If there are doubts as to the correct headlight range, have the adjustment checked by a specialized workshop, preferably by an authorized BMW Motorrad retailer.◀

Clutch

Adjusting clutch lever



WARNING

Modified position of the clutch fluid reservoir

Air in the clutch system

- Do not twist the handlebar fitting or the handlebars.◀

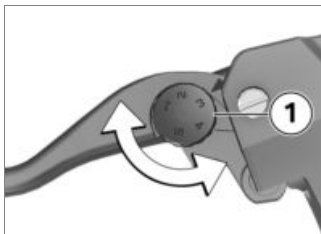


WARNING

Adjusting the clutch lever while driving

Accident hazard

- Adjust the clutch lever when the motorcycle is stationary.◀



- Rotate the adjusting screw **1** into the desired position by applying gentle pressure from the rear.



NOTICE

The adjusting screw is easier to turn when the clutch lever is pressed forward.◀

- » Adjustment options:
 - From position 1: smallest distance between handlebar grip and clutch lever
 - To position 5: largest distance between handlebar grip and clutch lever

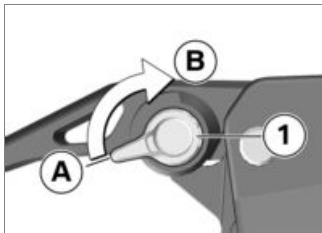
- with Option 719 Milled Parts Set Classic^{OE}

or

- with Option 719 Milled Parts Set Storm^{OE}

or

- with Option 719 milled part package, Club Sport^{OE}



- Turn adjusting lever **1** to the desired position.
- » Adjustment options:
- From position **A**: smallest distance between handlebar grip and clutch lever.
- In 5 steps toward position **B** to enlarge the distance between

the handlebar grip and clutch lever.◀

Brakes

Adjust brake lever



WARNING

Modified position of the brake fluid reservoir

Air in the brake system

- Do not twist the handlebar fitting or the handlebars.◀

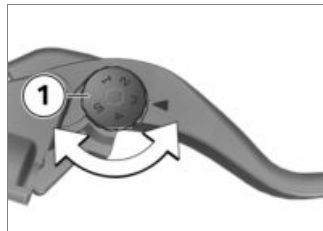


WARNING

Adjusting the brake lever while driving

Accident hazard

- Only adjust the brake lever when the motorcycle is stationary.◀



- Rotate the adjusting screw **1** into the desired position by applying gentle pressure from the rear.



NOTICE

The adjusting screw is easier to turn if you push the brake lever forwards.◀

- » Adjustment options:
- From position 1: smallest distance between handlebar grip and brake lever
- To position 5: largest distance between handlebar grip and brake lever

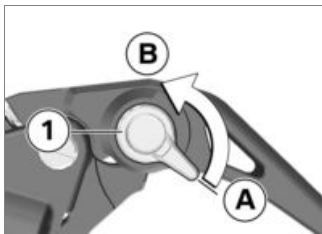
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- Turn adjusting lever **1** to the desired position.
 - » Adjustment options:
 - From position **A**: smallest distance between handlebar grip and brake lever.
 - In 5 steps toward position **B** to enlarge the distance between

the handlebar grip and brake lever.◁

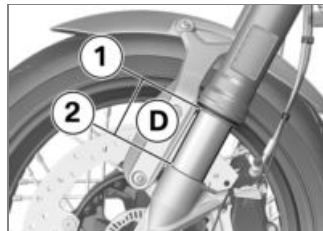
Spring preload

Adjustment to front wheel

The spring preload on the front wheel must be adapted to the weight of the rider. Higher weight requires a higher spring preload, lower weight requires a lower spring preload.

Adjust spring preload on front wheel

- Park motorcycle, ensuring that support surface is firm and level.
- Make sure there is no load on the motorcycle, removing any cargo or luggage.



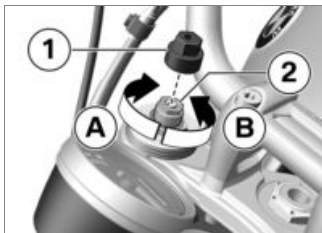
- Hold motorcycle in a vertical position and measure distance **D** between lower edge **1** of slider tube and front axle **2**.
- Load motorcycle with rider.
- With the assistance of a helper, measure distance **D** between points **1** and **2** again and calculate difference (spring deflection) between the measured values.



Adjustment of spring preload dependent on loading

Compressing front wheel

0.24...0.39 in (6...10 mm) (With rider 187 lbs (85 kg))



- Connect plastic top part **1** from vehicle tools on adjusting screws **2**.



WARNING

Uncoordinated settings of spring preload and spring strut damping.

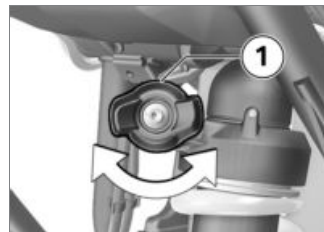
Poorer handling.

- Adjust damping characteristic to changed spring preload.◀
- To decrease spring deflection (increase spring preload), turn adjusting screws **2** with vehicle tools in direction **A**.
- To increase spring deflection (reduce spring preload), turn adjusting screws **2** with vehicle tools in direction **B**.
- Make sure that the same values are set on the left and right.

Setting

It is essential to set the spring preload at the rear wheel to suit the load carried by the motorcycle. Increase spring preload if the payload increases and reduce spring preload accordingly if the payload decreases.

Adjusting spring preload at rear wheel



- Park motorcycle, ensuring that support surface is firm and level.



WARNING

Uncoordinated settings of spring preload and spring strut damping.

Poorer handling.

- Adjust damping characteristic to changed spring preload.◀

- To increase spring preload, turn adjustment wheel **1** in clockwise direction.
- To decrease spring preload, turn adjustment wheel **1** in counter-clockwise direction.



NOTICE

A recommendation on the chassis calibration is provided in the chapter “Technical Data - Chassis”. ◀

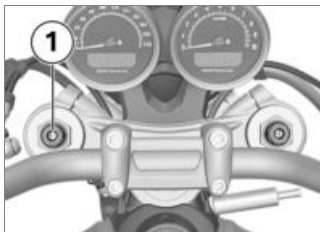
Damping

Setting

Damping must be adjusted to the road condition and the spring preload.

- A rough road requires softer damping than a smooth road.
- An increase in spring preload requires firmer damping, a reduction in spring preload requires softer damping.

Adjust compression damping on front wheel



- Adjust compression damping with adjusting screw **1** on left-hand fork leg.



- To increase damping: turn adjusting screw with tool from onboard tool kit so that marking **1** points to higher figure on scale.
- To decrease damping: turn adjusting screw with tool from onboard tool kit so that marking **1** points to lower figure on scale.



Compression stage, basic setting, front

Position 1 (comfortable setting with rider 187 lbs (85 kg))

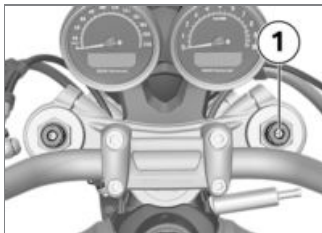


Compression stage, basic setting, front

Position 3 (standard setting with rider 187 lbs (85 kg))

Position 7 (sport-oriented setting with rider 187 lbs (85 kg))

Rebound-stage damping on front wheel



- Adjust rebound-stage damping with adjusting screw **1** on right-hand fork leg.



- To increase damping: turn adjusting screw with tool from onboard tool kit so that marking **1** points to higher figure on scale.
- To decrease damping: turn adjusting screw with tool from onboard tool kit so that marking **1** points to lower figure on scale.



Rebound stage, basic setting, front

Position 1 (comfortable setting with rider 187 lbs (85 kg))



Rebound stage, basic setting, front

Position 3 (standard setting with rider 187 lbs (85 kg))

Position 7 (sport-oriented setting with rider 187 lbs (85 kg))

Factory settings at front wheel

- Use following specification data to adjust to factory settings.



Factory settings for jounce/rebound at front

Position 3

Adjusting damping on rear wheel

- Park motorcycle, ensuring that support surface is firm and level.



CAUTION

Adjusting the spring strut damping when the silencer is hot

Burn hazard

- Allow the muffler to cool down.◀



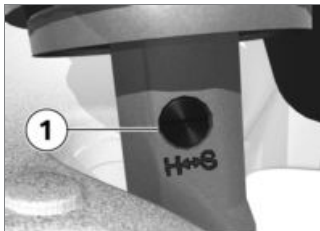
CAUTION

Working with hot components

Burn hazard

- Wear protective gloves.◀

- Use vehicle tools to adjust damping via adjusting screw **1**.



- To increase damping, turn adjusting screw **1** in clockwise direction.
- To reduce damping, turn adjusting screw **1** in counter-clockwise direction.



NOTICE

A recommendation on the chassis calibration is provided in the chapter "Technical Data - Chassis".◀

Adjustable footrest system

- with Option 719 Milled Parts Set Classic^{OE}
- or
- with Option 719 Milled Parts Set Storm^{OE}
- or
- with Option 719 milled part package, Club Sport^{OE}

Adjusting the rotor



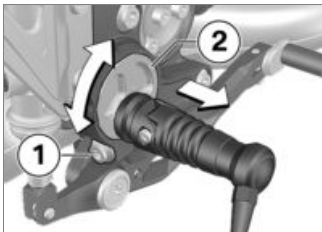
WARNING

Greater inclinations can lead ground contact of hard components when cornering.

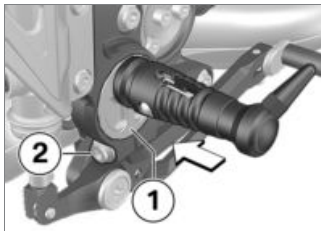
Accident hazard

- Do not use the footrest as an indicator for critical inclinations.◀
- The rotor is adjusted in the same way on the left and right.

- The position of the rotor must have the same setting on the right and left.



- The foot distance and a higher foot position can be adjusted on the rotor **2**.
- Release the bolt **1** far enough that the rotor **2** can be pulled out.
- The rotor **2** is adjustable in 12 positions. To set the highest position, turn the rotor **2** to the left or right by 180°.



- Install the rotor **1** in the desired position and tighten the screw **2**.



Rotor on base plate

15 lb/ft (20 Nm)

**WARNING****Incorrectly adjusted footrest due to the rotor being moved.**

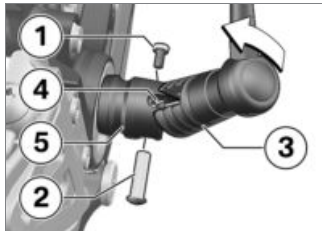
Accident hazard

- If the rotor is moved, the footrest adjustment must be adapted accordingly.◀

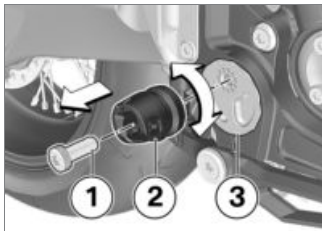
- The footrest can only fold upward and slightly backward.

Adjusting the footrest joint

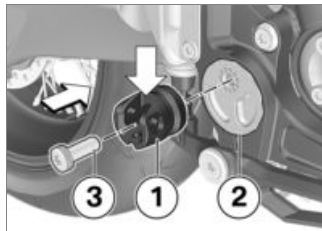
- The footrest joint is adjusted in the same way on the left and right.



- Remove the screw **1** and the bolt **2**.
- Fold the footrest body **3** in the direction of the arrow.
- » The spring is relaxed.
- Detach the spring **4** from the footrest joint **5**.



- Remove the screw **1**.
- Pull the footrest joint **2** from the rotor **3**.
- To change the position of the footrest joint **2**, turn it clockwise or counterclockwise.

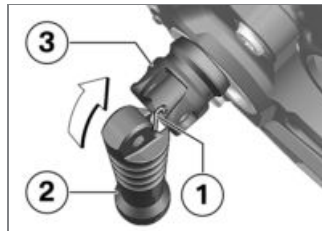


- When ultimately installed on the rotor **2**, the opening **arrow** of the footrest joint **1** **must** point upward or slightly to the rear and upward.
- Install screw **3**.
- Remove and install the footrest joint on the side of the switch unit in the same way.

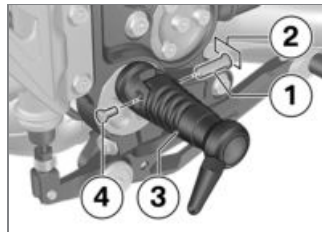


Footrest joint on rotor

15 lb/ft (20 Nm)



- Attach the spring **1** to the eye on the footrest joint **3**.
- Fold the footrest body **2** upward in the footrest joint **3**.



- Install the bolt **1** with the flattened head **2** flush to the

footrest joint and footrest body **3**.

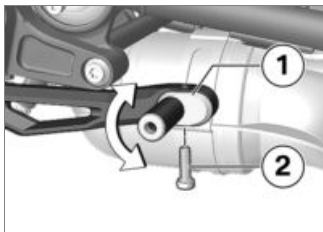
- Fit screw **4**.
- Remove and install the footrest body on the side of the switch unit in the same way.



Footrest body on
footrest joint

2 lb/ft (3 Nm)

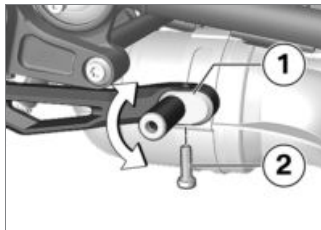
Adjusting the footbrake lever foot piece



- The distance between the foot and the foot piece **1** can be

adjusted by turning the foot piece into different positions.

- Remove the screw **2**.



- Clean the thread.
- Turn the foot piece **1** into the desired position.
- Install the **new** screw **2**.

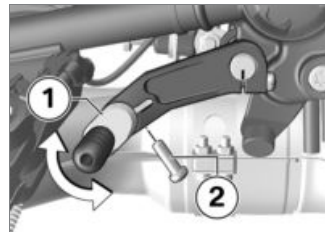


Foot piece on footbrake
lever

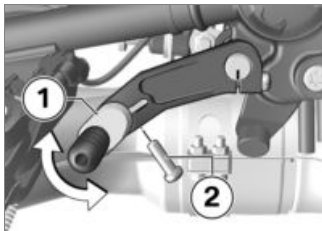
Thread-locking compound:
micro-encapsulated

7 lb/ft (10 Nm)

Adjusting gearshift lever foot piece



- The distance between the foot and the foot piece **1** can be adjusted by turning the foot piece into different positions.
- Remove the screw **2**.



- Clean the thread.
- Turn the foot piece **1** into the desired position.
- Install the **new** screw **2**.



Foot piece on gearshift
lever

Thread-locking compound:
micro-encapsulated

7 lb/ft (10 Nm)

Riding

Safety information	74
Observe checklist.....	76
Starting	76
Breaking in.....	79
Brakes	80
Parking your motorcycle	81
Refueling	81
Securing motorcycle for trans- port	83

Safety information

Rider's Equipment

The following clothing protects you while riding:

- 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.

Correct loading



WARNING

**Reduced riding stability
caused by overloading and
uneven loading**

Accident hazard

- Do not exceed the gross weight limit and observe the loading information. ◀
- Adjust spring preload, suspension damping rate settings and tire inflation pressures for the current gross vehicle weight.
- Pack heavy pieces of luggage and cargo as low and as close to the center of the motorcycle as possible.
 - with tank bag^{OA}
- Observe maximum payload of tank rucksack.



Payload of tank bag

≤11 lbs (≤5 kg)◀

- with rear bag^{OA}
- Observe maximum payload of the rear bag.



Payload of rear bag

max 22 lbs (max 10 kg)◀

Speed

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

- Incorrect settings of spring-struts
- Unevenly distributed load
- Loose clothing
- Insufficient tire pressure
- Tire tread in poor condition
- Attached luggage systems, such as a tank bag or rear bag. Observe the maximum speed indicated on the sign in the respective luggage system.

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.◀

Burn hazard

CAUTION

Intense heating up of engine and exhaust system while riding

Burn hazard

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

Catalytic converter

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

For this reason, observe the following points:

- Do not run the fuel tank dry.
- Do not run the engine with the spark-plug socket 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.◀

Modifications

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.◀

Observe checklist

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

Requirement

Before every journey:

- Check operation of the brake system.
- Check operation of the lighting and signal system.
- Checking clutch function (➡ 102).
- Check tire tread depth (➡ 103).
- Check secure hold of cases and luggage.

Requirement

At every third refueling stop:

- Adjusting spring preload at rear wheel (➡ 64).
- Check engine oil level (➡ 95).

- Check front brake pad thickness (➡ 97).
- Checking rear brake pad thickness (➡ 98).
- Checking front brake fluid level (➡ 100).
- Checking rear brake fluid level (➡ 101).

Starting

Starting engine

- Switching on ignition (➡ 38).
- » Pre-Ride-Check is carried out. (➡ 77)
- » ABS self-diagnosis is performed. (➡ 78)
- Engage neutral, or pull back clutch lever if a gear is engaged.



NOTICE

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 low temperatures:
» Pull clutch.



- Press starter button 1.



NOTICE

The starting attempt is automatically interrupted if battery voltage is too low. Recharge the battery before you attempt to start the engine again, or use jumper cables and a donor battery to start.

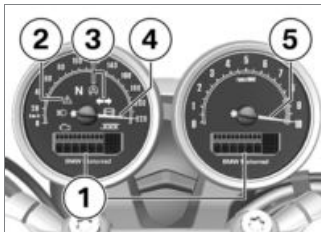
More detailed information can be found in the "Maintenance" chapter under "Jump-starting". ◀

- » Engine starts.
- » Consult the troubleshooting chart if the engine refuses to start. (▶▶ 140)

Pre-Ride-Check

After the ignition is switched on, the instrument cluster performs a test of the instrument dials, the warning and indicator lights, and the display – this is known as the "Pre-Ride-Check". Starting the engine before the test routine is completed will cancel the remainder of the routine.

Phase 1



All segments are displayed in the displays **1**.

At the same time, all indicator and warning lights **3** are switched on.

Phase 2

The general warning light **2** changes from a steady light to flashing.

The needle **4** for the speedometer moves to top speed.

The needle **5** for the RPM moves to maximum RPM.

Phase 3

The needle **4** for the speedometer drops to zero.

The needle **5** for the RPM drops to zero.

The indicator and warning lights go out or adopt their functions for operation.

The display reverts to the standard format. The onboard computer is displayed.

If the needles did not move, an indicator and warning light was not switched on, or segments are missing in the display:

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

ABS self-diagnosis

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

Phase 1

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



ABS indicator light flashes.

Phase 2

- » Check wheel sensors while starting off.



ABS indicator light flashes.

ABS self-diagnosis completed

- » The ABS indicator and warning light goes out.



ABS self-diagnosis routine not completed

ABS is not available, as the self-diagnosis routine was not completed. (The motorcycle must reach a specified minimum speed before the system can check operation of the wheel speed sensors: 3 mph (5 km/h))

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

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

ASC self-diagnosis

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

Phase 1

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



ASC indicator and warning light flashes slowly.

Phase 2

- » Checking the diagnosable system components while the motorcycle is moving.



ASC indicator and warning light flashes slowly.

ASC self-diagnosis completed

- » The ASC indicator and warning light goes out.

- Check the display of all indicator and warning lights.



ASC self-diagnosis routine not completed

ASC is not available because the self-diagnosis routine was not completed. (The motorcycle must reach a specified minimum speed before the system can check operation of the wheel sensors: min 3 mph (min 5 km/h))

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

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

Breaking in Engine

- While running in the motorcycle, vary the throttle opening and engine-speed range frequently; avoid driving for long periods at a constant speed.
- Choose curvy, slightly hilly sections of road if possible.
- Observe the engine run-in speeds.



Engine run-in speed

<5000 min⁻¹ (Mileage 0...621 miles (0...1000 km))

- Observe mileage, after which the running-in check should be performed.



Mileage until first running-in check

311...746 miles (500...1200 km)

Brake pads

New brake pads have to be broken in before they can achieve their optimum frictional force. This initial reduction in braking effect 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.◀

Brakes**How do you achieve the shortest stopping distances?**

The dynamic load distribution between the front and rear wheel changes during braking. The heavier you brake, the greater the weight transfer to the front wheel. Increases in the load on an individual wheel are accompanied by a rise in the effective braking force that the wheel can provide.

To achieve the shortest possible braking distance, the front

brake must be applied quickly and with progressively greater levels of force. This procedure provides ideal exploitation of the extra weight transfer to the front wheel. The clutch should also be disengaged at the same time. With the frequently trained extreme emergency braking in which the 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 surface.

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

Descending mountain passes**WARNING****Braking only with the rear-wheel brake when descending mountain passes**

Reduced of braking action, destruction of the brakes caused by overheating

- Use both front and rear brakes, and make use of the engine's braking effect as well.◀

Wet, soiled brakes

Moisture and dirt on the brake discs and the brake pads result in a decrease in the braking effect.

Delayed or poorer braking effect 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.◀

Parking your motorcycle

Side stand

- Switch off engine.



ATTENTION

Poor ground conditions in area of stand

Component damage cause by tipping over

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



ATTENTION

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.◀

- Fold out side stand and park motorcycle.
- If the slope of the road permits, turn the handlebars to the left.
- On slopes point the motorcycle uphill and engage 1st gear.

Refueling

Fuel grade

Requirement

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



ATTENTION

Refueling with leaded fuel

Damage to catalytic converter

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



ATTENTION

Use of Ethanol E85 as fuel

Damage to the engine and fuel supply

- Do not refuel with E85, i.e. fuel with an ethanol content of 85 %, or with Flex Fuel. ◀
- Fuels with a maximum ethanol content of 15 %, i.e. E15, may be used for refueling.



Recommended fuel quality

Premium grade unleaded fuel
(max. 5 % ethanol, E5)
91 AKI (98 ROZ/RON)
93 AKI



Alternative fuel quality

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

Refueling procedure



WARNING

Fuel is highly flammable

Fire and explosion hazard

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



ATTENTION

Component damage

Component damage due to over-filled fuel tank

- If the fuel tank is overfilled, the excess fuel will flow into the carbon canister and lead to component damage there.
- Only fill the fuel tank to the lower edge of the fuel filler neck. ◀

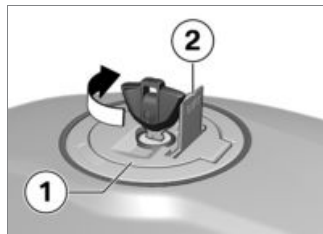


ATTENTION

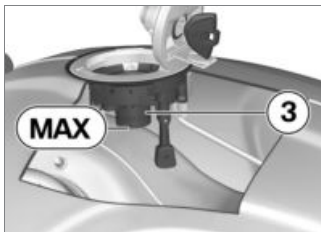
Contact of fuel and plastic surfaces

Damage to surfaces (become unattractive or cloudy)

- Immediately clean plastic surfaces after contact with fuel. ◀
- Park motorcycle, ensuring that support surface is firm and level.



- Open protective cap **2**.
- Unlock fuel tank cap **1** with ignition key by turning clockwise, then swivel it up.



- Refuel with a fuel meeting the specifications below, continuing until fuel is no higher than lower edge of filler neck.

NOTICE

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

NOTICE

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. 4.8 gal (Approx. 18 l)



Reserve fuel quantity

Approx. 3.2 quarts (Approx. 3 l)

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

Securing motorcycle for transport

- Protect all component surfaces against which straps are routed against scratching. For example, use 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 motorcycle onto transport surface, and do not place on side stand.

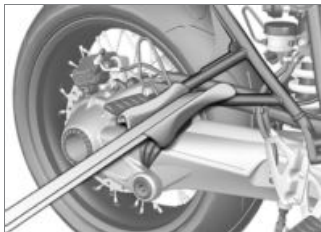


ATTENTION

Pinching of components

Component damage

- Do not pinch components, e.g. brake lines or wiring harnesses.◀
- Fasten tensioning strap at front on both sides to bottom of fork bridge.



- Fasten rear straps on both sides to the brackets of the passenger footrests and then tighten them.
- Tension all straps evenly; the motorcycle should be pulled down against its springs with the suspension compressed as much as possible.

Technology in detail

General notes.....	86
Antilock Brake System (ABS)	86
Automatic Stability Control (ASC)	88

General notes

More information on the topic of technology is available at:

bmw-motorrad.com/technology

Antilock Brake System (ABS)

How does ABS work?

The maximum braking force that can be transferred to the road is partially dependent on the coefficient of friction of the road. 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 transferable brake pressure is exceeded when the driver increases the brake pressure, the wheels begin to lock and driving stability is lost;

this could result in a fall. 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 driving stability regardless of the road surface condition.

What happens when rough roads are encountered?

Rough roads can briefly lead to a loss of contact between the tires and the road surface. The transferable braking force is then 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, ABS must assume extremely low friction coefficients (gravel, ice, snow) so that the wheels turn in every

imaginable case and driving stability is ensured. After detecting the actual conditions, the system adjusts the optimum brake pressure.

Lifting off rear wheel

During extremely heavy and rapid decelerations it is possible that the BMW Motorrad ABS cannot 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 characteristics of the BMW Motorrad ABS?

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

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

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

Special situations

To detect the tendency of the wheels to lock up, the speeds of the front and rear wheel are compared. If implausible values are detected over a longer period of time, the ABS function is deactivated for safety reasons and an ABS error is indicated. A self-diagnosis routine must be completed before the error will be displayed.

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

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

- Locked-up rear wheel for a longer period of time, e.g. when riding downhill offroad.

Should a fault code occur due to an unusual driving condition, the ABS function can be reactivated by switching the ignition off and then on again.

How important is regular maintenance?



WARNING

Brake system not regularly serviced

Accident hazard

- To ensure that the BMW Motorrad ABS is in a properly maintained condition, it is vital that the specified service intervals are kept to. ◀

Reserves for safety

The potentially shorter stopping distances which BMW Motorrad ABS permits must not be used as an excuse for careless riding. ABS is primarily a means of ensuring 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. ◀

Automatic Stability Control (ASC)

How does ASC work?

BMW Motorrad ASC compares the wheel speeds of the front and rear wheels. Differences in the relative rotation speeds allow the system to determine the slip rate, and thus the stability reserves at the rear wheel. The engine management system adapts the engine torque when the slip limit is exceeded.

Special situations

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

The system compares the rotation speeds of the front and rear wheels to detect any tendency for the rear wheel to spin or lose traction. If the system registers implausible data for an extended period of time it will deactivate the ASC functionality as safety precaution and a display will alert you to an ASC error. A self-diagnosis routine must be completed before the error will be displayed. In the following unusual driving conditions, the BMW Motorrad ASC may possibly switch off automatically.

Unusual riding conditions:

- Riding on the rear wheel (wheelie) for an extended period with ASC deactivated
- Rear wheel rotating with the vehicle held stationary by applying the front brake (burn-out)

- Heating up on the main or additional stand at idle or with gear engaged

ASC is reactivated by turning the ignition off and on and then riding at a speed above 3 mph (5 km/h).

If the front wheel loses contact with the ground under extreme acceleration, the ASC reduces the engine torque, maintaining the reduction until the front wheel makes contact with the ground again.

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

On a slippery surface, the throttle grip should never be suddenly twisted back completely unless the clutch is disengaged at the same time. The engine's braking torque could cause the rear wheel to lock, resulting in unstable motorcycle conditions. BMW Motorrad ASC is unable to intervene effectively under these conditions.

Slippery roadway

On very loose surfaces (e.g. a gravel bed at a racetrack) the control interventions of the ASC can reduce the drive force at the rear wheel to such a degree that the rear wheel no longer turns sufficiently. In this case, BMW Motorrad recommends switching off the ASC temporarily.

Note that the rear wheel will spin on the loose surface, and close

the throttle in a timely manner before reaching a solid surface. Then switch on ASC again.

Maintenance

General notes	92
Tool kit	92
Front-wheel stand	93
Rear-wheel stand	94
Engine oil	95
Brake system	97
Clutch	102
Tires	102
Rims and tires	102
Wheels	103
Headlight	111
Light sources	112
Jump-starting.....	116
Battery.....	117
Fuses	119

Diagnostic connector	120
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General notes

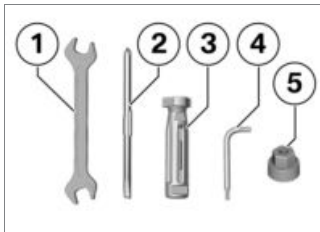
The Maintenance chapter describes work for checking and replacing wear parts. These tasks can be performed with a minimum of effort.

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

Further information about maintenance and repair tasks can be obtained on DVD through your authorized BMW Motorrad retailer.

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

Tool kit



- 1** Open-ended wrench
AF 14/17
 - Adjusting mirror arm (➡ 60).
 - Adjust spring preload on front wheel (➡ 63).
- 2** Reversible screwdriver insert
with Phillips and straight blade
 - Rebound-stage damping on front wheel (➡ 66).
 - Adjust compression damping on front wheel (➡ 65).
- 2**
 - Adjusting damping on rear wheel (➡ 66).
 - Replacing front and rear turn indicator bulbs (➡ 114).
- 3** Screwdriver handle
 - Topping up engine oil (➡ 96).
 - Use with screwdriver insert
- 4** Torx wrench T20
 - Replacing low and high-beam bulbs in headlight (➡ 112).
 - Replacing the bulbs for parking lights (➡ 113).
- 5** Plastic top part
 - Adjust spring preload on front wheel (➡ 63).

Front-wheel stand

Install front wheel stand

ATTENTION

Use of the BMW Motorrad front wheel stand without an auxiliary stand

Component damage cause by tipping over

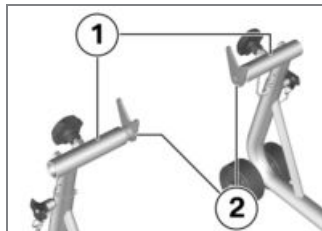
- Place the motorcycle on an auxiliary stand before lifting the front wheel with the BMW Motorrad front-wheel stand.◀
- Place motorcycle on a front-wheel stand; BMW Motorrad recommends the BMW Motorrad front-wheel stand.
- Installing rear-wheel stand (➡ 94).



- Use basic stand with mounting pieces. The basic stand and its accessories are available through your authorized BMW Motorrad retailer.



- Insert holding pins **1** at the left and right into the front suspension.



- Turn the bracket **1** with the long sides facing the inside.
- Adjust the mounting pieces **2** to the width of the pins

inserted into the front suspension.

- Adjust the height of the front-wheel stand until the front wheel can turn freely.



ATTENTION

Lifting-off of the auxiliary stand if the motorcycle is raised too high

Component damage cause by tipping over

- When raising the motorcycle, make sure that the auxiliary

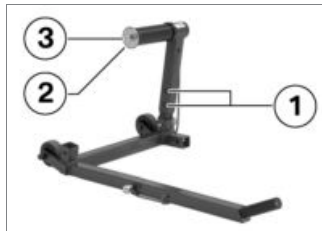
stand remains in touch with the ground.

- Adjust the height of the front wheel stand or auxiliary stand if necessary.◀
- Attach the front-wheel stand to the front suspension and press it on the ground evenly.

Rear-wheel stand

Installing rear-wheel stand

- Park motorcycle, ensuring that support surface is firm and level.
- Use rear-wheel stand with rear wheel adapter. The rear-wheel stand and its accessories are available through your authorized BMW Motorrad retailer.



- Set desired height of rear-wheel stand using screws **1**.
- Remove the lock washer **2**; to do so, press the unlock button **3**.



- Push the rear-wheel stand from the right onto the rear axle.
- Apply the retaining disk from the left; to do so, press the unlock button.



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.◀
- Position motorcycle upright while simultaneously pressing grip of stand back so that both stand rollers rest on ground.
- Then press the grip down to the ground.

Engine oil

Check engine oil level



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

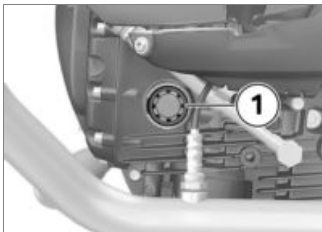
- Only check the oil level after a longer journey or when the engine is warm.◀
- Switch off engine at operating temperature.
- Make sure ground is level and firm and hold motorcycle vertically.
- Wait five minutes to allow oil to drain to the oil pan.



NOTICE

BMW Motorrad recommends occasionally checking the motor oil

after a journey of at least 50 km in order to reduce the environmental impact.◀



- Read oil level in display **1**.



Specified level of engine
oil

Between the **MIN** and **MAX**
marks

If oil level is below MIN mark:

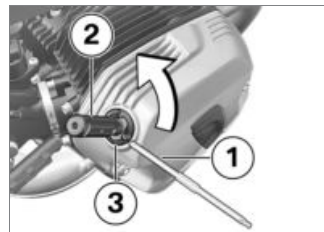
- Topping up engine oil (➡ 96).

If oil level is above MAX mark:

- Have oil level corrected at an authorized service facility, preferably an authorized BMW Motorrad retailer.

Topping up engine oil

- Park motorcycle, ensuring that support surface is firm and level.



- Wipe area around oil fill location to clean it.
- To be able to apply force more easily, insert the interchangeable screwdriver bit **1**, Philips end forward, into the screwdriver handle **2** (from motorcycle toolkit).
- Place the vehicle tool on the oil filler plug **3** and turn counter-clockwise.

- Remove oil filler plug **3**.



ATTENTION

Use of too little or too much engine oil

Engine damage

- Always make sure that the oil level is correct.◀
- Add engine oil up to specified level.



Engine oil, quantity for topping up

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

- Check engine oil level (▮➔ 95).
- Install oil filler plug **3**.

Brake system

Check brake operation

- Actuate the handbrake lever.
 - » Pressure point must be clearly perceptible.

- Actuate the footbrake lever.
 - » Pressure point must be clearly perceptible.

If no clear pressure points are perceptible:



ATTENTION

Improper working on the brake system

Endangering of the operating safety of the brake system

- Have all work on the brake system carried out by experts.◀
- Have the brakes checked at an authorized workshop, preferably an authorized BMW Motorrad retailer.

Check front brake pad thickness

- Park motorcycle, ensuring that support surface is firm and level.



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



Front brake-pad wear limit

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

If the wear indicators are no longer clearly visible:



WARNING

Dropping below the minimum pad thickness

Reduced braking action, damage to the brake

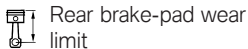
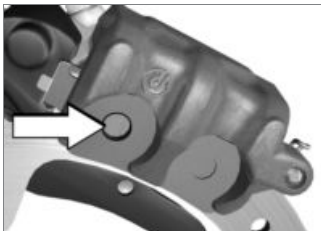
- In order to ensure the operating reliability of the brake system, make sure that the brake pads are not worn beyond their minimum thickness. ◀
- Have brake pads replaced at an authorized service facility, preferably an authorized BMW Motorrad retailer.

Checking rear brake pad thickness

- Park motorcycle, ensuring that support surface is firm and level.



- Conduct a visual inspection of the brake pad thickness. Direction of view: from left onto brake caliper.



0.04 in (1.0 mm) (Only friction material without carrier plate. Brake disk must not be visible through bore hole of inner brake pad.)

If the brake disc is visible:

! WARNING

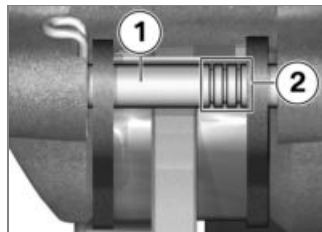
Dropping below the minimum pad thickness

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 replaced at an authorized service facility, preferably an authorized BMW Motorrad retailer.

Brake pad wear

The rear brake has a brake pad wear indicator.



The axle **1** with the three ring marks **2** is located between the brake pads.

Meaning of the marks:

- 3 rings visible: at least 75% brake pad thickness
- 2 rings visible: at least 50% brake pad thickness
- 1 ring visible: at least 25% brake pad thickness
- No ring visible: wear limit has been reached, check as described earlier

Checking front brake fluid level



WARNING

Insufficient brake fluid in the brake-fluid reservoir

Considerably reduced braking performance caused by air in the brake system

- Adjust the riding mode immediately until the fault is rectified.
- Check brake fluid level regularly. ◀
- Park motorcycle, ensuring that support surface is firm and level.
- Brake-fluid reservoir horizontal, motorcycle standing upright.



- Check brake fluid level in front brake-fluid reservoir **1**.



NOTICE

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.)

If brake fluid level falls below the approved level:

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

Checking rear brake fluid level

WARNING

Insufficient brake fluid in the brake-fluid reservoir

Considerably reduced braking performance caused by air in the brake system

- Adjust the riding mode immediately until the fault is rectified.
- Check brake fluid level regularly. ◀
- Park motorcycle, ensuring that support surface is firm and level. Hold vehicle straight.



- Read brake fluid level at rear brake-fluid reservoir **1**.



NOTICE

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)

If brake fluid level falls below the approved level:

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

Clutch

Checking 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.

Tires

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 motorcycle, ensuring that support surface is firm and level.
- Check tire pressures against data below.



Front tire pressure

36.3 psi (2.5 bar) (with tire cold)



Rear tire pressure

39.2 psi (2.7 bar) (One-up, with cold tires)

42.1 psi (2.9 bar) (Two-up and cargo, with cold tires)

If tire pressure incorrect:

- Correct tire pressure.

Rims and tires

Checking wheel rims

- Park motorcycle, ensuring that support surface is firm and level.
- Subject wheel rims to visual inspection for defects.
- Have damaged rims checked and, if necessary, replaced by a specialist service facility, preferably an authorized BMW Motorrad retailer.

Checking spokes

- Park motorcycle, ensuring that support surface is firm and level.
- Using the handle of a screw-driver or similar object, run it over the spokes and listen to the sound pattern.

If the sound pattern is uneven:

- Have spokes checked by a specialist workshop, preferably by an authorized BMW Motorrad Retailer.

Check tire tread depth



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. ◀

- Park motorcycle, ensuring that support surface is firm and level.
- Measure tire tread depth in main tread grooves with wear indicators.



NOTICE

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 the worn tires.

Wheels

Tire recommendation

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

Affect of wheel size on ABS

Wheel sizes greatly affect the function of the ABS system. 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 comfort of these systems.

The sensor rings are essential for correct wheel speed detection; they too must match the built-in control systems and consequently cannot be replaced.

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

Remove front wheel



NOTICE

To simplify wheel removal/installation, the front wheel cover must be released on one side.◀

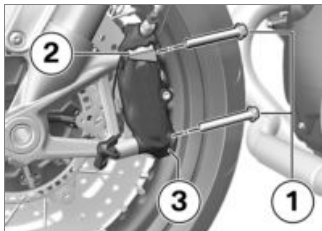
- Park motorcycle, ensuring that support surface is firm and level.



- Loosen screws **1**.
- Mask off areas of wheel rim that could be scratched in the process of removing the brake calipers.



- Loosen sensor cable (**arrow**) from the bracket.
- Remove screw **1** and take wheel speed sensor **2** out of bore.

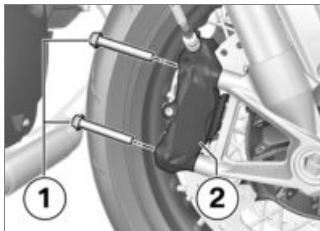


ATTENTION

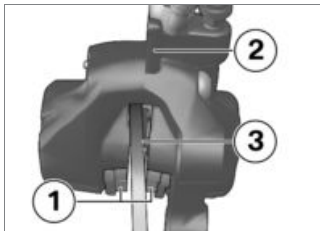
Unintentional pressing together of brake pads

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

- Do not actuate the brakes with the brake caliper removed.◀
- Remove screws **1** on left.
- Loosen bracket **2** for sensor cable and brake caliper **3**.



- Remove screws **1** on right and loosen brake caliper **2**.



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

- Carefully pull brake calipers back and outward to remove them from brake rotors.



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.◀
- Raise motorcycle, preferably with a BMW Motorrad rear-wheel stand.
- Installing rear-wheel stand (→ 94).



ATTENTION

Use of the BMW Motorrad front wheel stand without an auxiliary stand

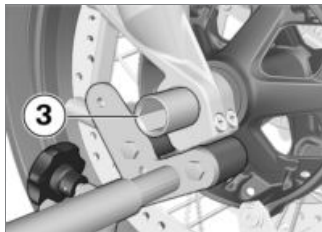
Component damage caused by tipping over

- Place the motorcycle on an auxiliary stand before lifting the front wheel with the BMW Motorrad front-wheel stand.◀
- Raise front of motorcycle, preferably using a BMW Motorrad front-wheel stand, continuing until the front wheel rotates freely.
- Install front wheel stand (▶▶ 93).



- Remove screw **2**.

- Loosen clamping bolts **1** on left and right.
- Slightly press the quick-release axle inward for a better grip on the right side.



- Pull out the quick-release axle **3** while supporting the front wheel.
- Place front wheel down and roll it forward out of the front suspension.



- Remove spacer bushing **4** from front wheel hub.

Installing the front wheel



WARNING

Use of a wheel which does not comply with series specifications

Malfunctions in ABS operation

- Please see the information on the effect of wheel sizes on the ABS system 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. ◀



- Lubricate the tire tread on the spacer bush **1**.



Lubricant

Optimoly TA

- Install the spacer bushing **1**.

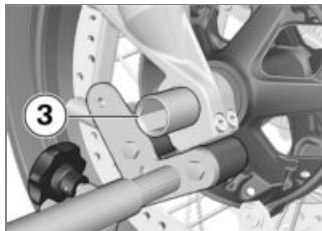


ATTENTION

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 **3**.



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 **3**.
- Remove front wheel stand and firmly compress front forks. Do not actuate handbrake lever at the same time.
- Install front wheel stand (→ 93).



- Install screw **2**. Brace quick-release axle on the right side at the same time.



Screw on quick-release axle

37 lb/ft (50 Nm)

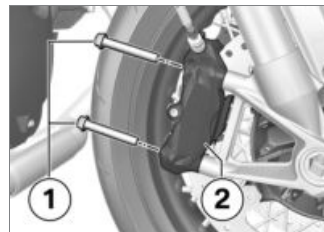
- Tighten the clamping bolts **1** on left and right to the appropriate torque.



Clamping screw in axle adapter

Tightening sequence: Tighten the screws 6 times, alternating between one and the other each time

14 lb/ft (19 Nm)

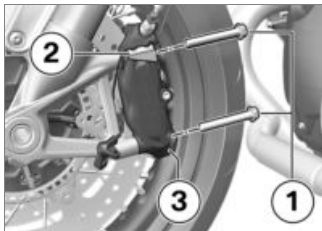


- Position brake caliper **2** on right and install screws **1**.



Brake caliper on telescopic forks

28 lb/ft (38 Nm)



- Position brake caliper **3** on left and bracket **2**.
- Install screws **1**.



Brake caliper on telescopic forks

28 lb/ft (38 Nm)

- Remove adhesive tape from wheel rim.



- Secure sensor cable (**arrow**) to brake line.
- Insert the wheel speed sensor **2** into the bore and fit with the screw **1**.



Front wheel speed sensor on fork leg

6 lb/ft (8 Nm)



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, continuing until the brake pads seat against the discs.
- Remove the front-wheel stand.
- Extend the side stand.



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.◀
- Remove the rear-wheel stand.
- Place motorcycle on its side stand.



- Tighten screws **1**.



Front wheel cover on
fork

4 lb/ft (5 Nm)

Removing rear wheel

- Shift into first gear.



- Remove screws **1** while supporting wheel.
- Roll rear wheel out toward rear.

Installing rear wheel



WARNING

Use of a wheel which does not comply with series specifications

Malfunctions in ABS operation

- Please see the information on the effect of wheel sizes on the ABS system at the beginning of this chapter.◀

- Place rear wheel on rear wheel support.



- Install screws **1**.

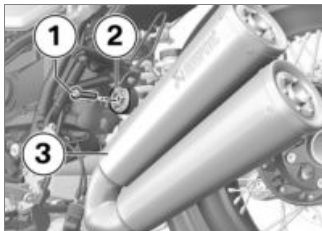


Rear wheel on wheel
carrier

Tightening sequence: Tighten
crosswise

44 lb/ft (60 Nm)

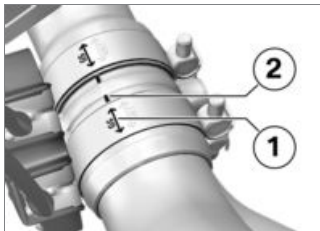
- Connect silencer to pipe on the exhaust flap.



- Align silencer **3**, fit washer **2** and install screw **1**.

 Silencer on passenger frame

14 lb/ft (19 Nm)



- Slide clamp as far forward as possible and align it so that clamp mark **(GS) 1** faces mark **2**.



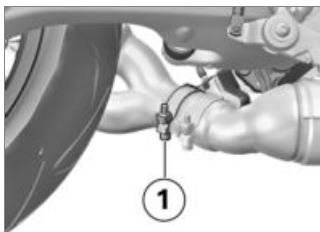
Clamp on silencer and exhaust manifold

21 lb/ft (28 Nm)

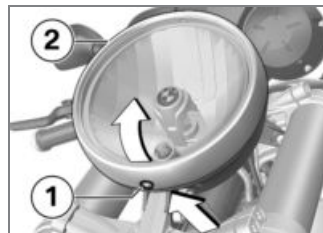
Headlight

Removing and installing light housing

- Switch off ignition (III → 39).
- Park motorcycle, ensuring that support surface is firm and level.

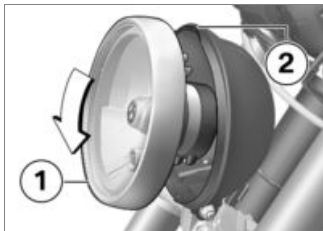


- Tighten screw **1**.

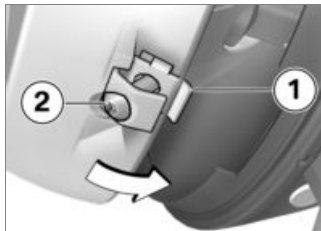


- Loosen screw **1** with several rotations.

- Carefully pull lamp housing **2** forward in the lower area in direction **arrow** and lift off.



- Position lamp housing **1** under the tab **2** and swivel down.
- Center lamp housing **1**.



! WARNING

Bent clamp due to application of force on the lamp housing

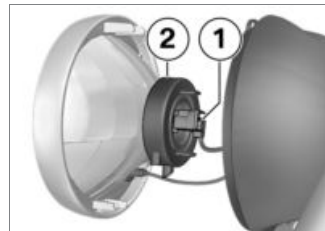
Risk of accident due to improper fastening of the reflector

- Avoid applying excessive force. ◀
- Press screw **2** up using screw-driver.
- Swivel lamp housing towards rear.
 - » Clamp **1** engages in lamp housing.
- Tighten screw **2**.

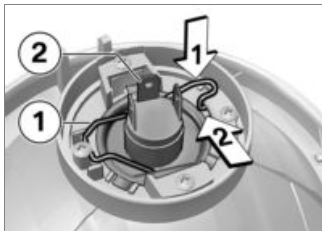
Light sources

Replacing low and high-beam bulbs in headlight

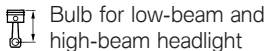
- Switch off ignition (▮▮▮ 39).
- Park motorcycle, ensuring that support surface is firm and level.
- Removing lamp housing (▮▮▮ 111).



- Disconnect connector **1** for high and low beams.
- Pull off rubber seal **2** from lamp housing.

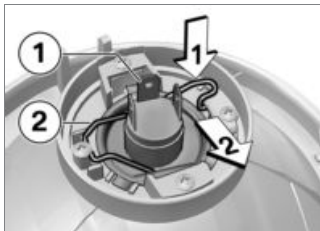


- Press wire spring clip **1** down and swivel out of the locking to the side, then fold wire spring clip up.
- **Carefully** remove light source **2** for low and high beams from the lamp housing.
- Replace defective light source.

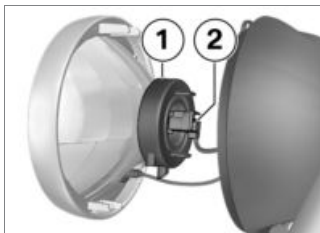


H4 / 12 V / 60/55 W

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



- Insert light source **1** into the light housing.
- Fold wire spring clip **2** closed and swivel into the locking.

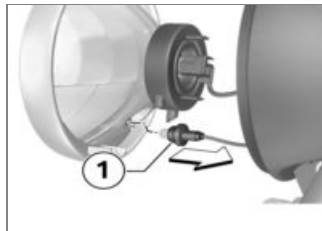


- Slip on rubber cap **1**.

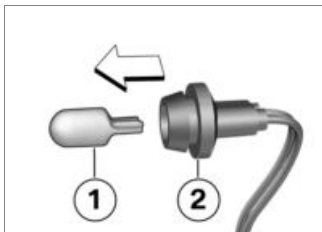
- Connect connector **2** for high and low beams.
- Install lamp housing.

Replacing the bulbs for parking lights

- Switch off ignition (III 39).
- Park motorcycle, ensuring that support surface is firm and level.
- Removing lamp housing (III 111).



- Remove socket **1** for parking lamps from lamp housing.



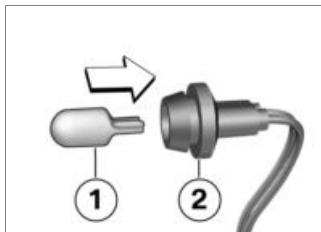
- Pull light source **1** out of socket **2**.
- Replace defective light source.



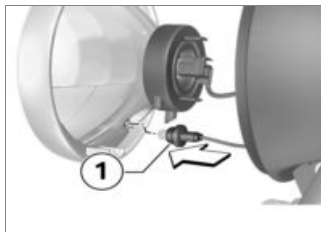
Bulb for parking light

W5W / 12 V / 5 W

- To prevent contaminants from being deposited on the glass surface, always use a clean, dry cloth to hold the light source.



- Insert light source **1** for parking lamps into socket **2**.



- Insert socket **1** for parking lamps into lamp housing.
- Install lamp housing.

Replacing front and rear turn indicator bulbs

- Switch off ignition (III 39).
- Park motorcycle, ensuring that support surface is firm and level.



- Remove screw **1** with tool from vehicle tools.



- Remove the lens from the housing by pulling it outward on the side with the screw.



- Remove bulb **1** from light housing by turning it counterclockwise.

- Replace defective light source.



Bulbs for flashing turn indicators, front

RY10W / 12 V / 10 W



Bulbs for flashing turn indicators, rear

RY10W / 12 V / 10 W

- To prevent contaminants from being deposited on the glass surface, always use a clean, dry cloth to hold the light source.



- Install light source **1** by turning clockwise in light housing.



- Insert inside end of lens into light housing and close it.



- Fit the screw **1**.

Replacing LED tail light

The LED tail light can only be completely replaced.

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

Jump-starting



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.◀

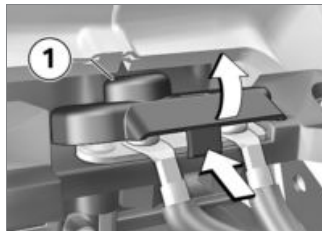


ATTENTION

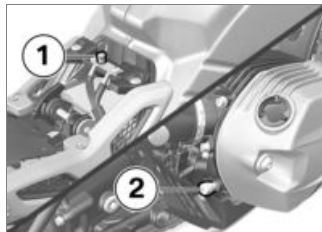
Jump-starting with a voltage higher than 12 V

Damage to the motorcycle's electronics

- The battery of the donor motorcycle must have a voltage of 12 V.◀
- Park motorcycle, ensuring that support surface is firm and level.
- Remove passenger seat (► 56).
- Remove rider's seat (► 56).



- Unclip cover panel **1** at bottom (arrow) and lift off.



- Begin by connecting one end of the red jumper cable to the auxiliary terminal for jump starting **1** on the discharged battery and the other end to the posi-

tive terminal of the donor battery.

- Connect the black jumper cable end to the bolt-on terminal **2** on your vehicle and the other end to the negative terminal of the donor battery.
- Run engine of donor vehicle during jump-starting procedure.
- Start engine of motorcycle with discharged battery in usual way; if engine refuses to start, wait a few minutes before repeating attempt to protect starter and supporting battery.
- Allow both engines to idle for a few minutes before disconnecting jumper cables.
- Disconnect the jumper cables from the bolt-on terminal **2** first and then from the auxiliary terminal for jump starting **1**.



NOTICE

To start the engine, do not use start sprays or similar items.◀

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.◀



NOTICE

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 a connected 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.◀
- Remove devices connected to the power socket.
- Comply with operating instructions of charger.
- Charge battery connected to the vehicle via power socket.



NOTICE

The motorcycle's onboard electronics know when the battery is fully charged. The onboard

socket is switched off when this happens.◀



NOTICE

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.◀



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

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.◀
- Charge battery at the terminals directly.

Charging a disconnected battery

- 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.



NOTICE

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.◀

Replacing the battery

If the battery is faulty, please contact a specialist workshop, preferably an authorized BMW Motorrad Retailer.

Fuses

Replace fuses



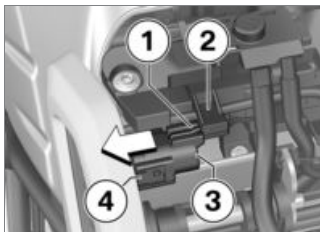
ATTENTION

Bypassing defective fuses

Risk of short circuit and fire

- Do not bypass defective fuses.

- Replace defective fuses with new fuses.◀
- Turn off ignition.
- Park motorcycle, ensuring that support surface is firm and level.
- Remove passenger seat (➡ 56).
- Remove rider's seat (➡ 56).



- Press hook **1**.
» The fuse box is unlocked and can be pulled to the left and released from the bracket **2**.
- Pull fuse box out of bracket **2**.

- Press locking mechanism **4** on both sides and remove cap **3**.

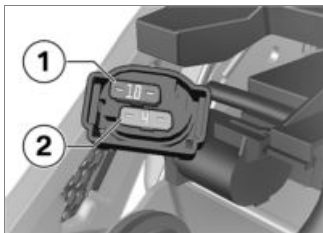


NOTICE

If the fuses blow frequently, have the electrical system checked by an authorized specialized workshop, preferably an authorized BMW Motorrad retailer.◀

- Replace defective fuse in accordance with following fuse assignment diagram.
» Fuse assignment (➡ 120)
- Install cap **3** again. Make sure that the locking mechanism **4** engages.
- Slide fuse box into bracket **2** until hook **1** engages.
- Installing rider's seat (➡ 56).
- Install passenger seat (➡ 57).

Fuse assignment



Fuse 1

10 A (Instrument cluster, anti-theft alarm system DWA, ignition switch, OBD diagnostic socket, coil for cut-off relay)



Fuse 2

4 A (ABS control unit, engine control unit, output cut-off relay, speedometer, rotational-speed sensor, alternator)

Diagnostic connector

Removing the diagnostic connector

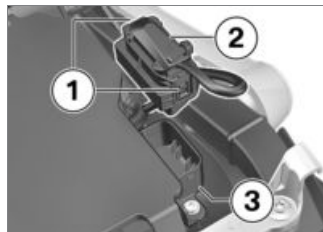


CAUTION

Incorrect procedure followed when disconnecting the data link connector for the On-Board Diagnostics.

Motorcycle experiences malfunctions

- Only have the data link connector disconnected by a specialist workshop or other authorized persons during your next BMW Service appointment.
- Have the work performed by appropriately trained staff.
- Refer to the vehicle manufacturer specifications. ◀
- Remove passenger seat (►► 56).
- Remove rider's seat (►► 56).



- Press locking mechanisms **1**.
- Remove the diagnostic connector **2** from the bracket **3**.
- » The diagnosis and information system interface can be connected at the diagnostic connector **2**.

Secure the data link connector

- Disconnect the diagnosis and information system interface.



- Seat diagnostic connector **2** into the bracket **3**.
 - » The locks **1** engage.
- Installing rider's seat (➡ 56).
- Install passenger seat (➡ 57).

Accessories

General notes.....	124
Sockets.....	124
Luggage	125
Passenger frame.....	125
Hump cover	130
Optional accessories.....	132

General notes



CAUTION

Use of products from other manufacturers

Safety risk

- BMW Motorrad cannot examine or test each product of outside origin to ensure that it can be used on or in connection with BMW motorcycles without constituting a safety hazard. Nor is this guarantee provided when the official approval of a specific country has been granted. Tests conducted by these instances cannot make provision for all operating conditions experienced by BMW motorcycles and, consequently, they are not sufficient in some circumstances.
- Use only parts and accessories approved by BMW for your motorcycle. ◀

The safety, operation and suitability of the parts and accessory products have been thoroughly tested by BMW. Therefore, BMW assumes responsibility for these products. BMW shall not be held liable for unapproved parts and accessory products of any kind. Comply with legal requirements for any modifications. The motorcycle shall not violate the regulations governing motorcycle approval for highway use applicable in your own country.

Your BMW Motorrad retailer offers you expert advice when choosing genuine BMW parts, accessories and other products. More information on the topic of accessories is available at:

bmw-motorrad.com/equipment

Sockets

Notes on using sockets:

Automatic switch-off

The sockets are automatically switched off under the following conditions:

- In order to retain the starting capability of the motorcycle if the battery voltage is too low
- If the maximum load capacity specified in the technical data is exceeded
- During the starting operation

Connecting electrical devices

The ignition must be switched on before electrical devices connected to the sockets can be operated. To reduce loads on the electrical system, the sockets are switched off no more than 15 minutes after the ignition is switched off.

Cable routing

Observe the following when routing cable from power sockets to additional devices:

- Cables must not impede the rider.
- Cables must not restrict the steering angle and driving characteristics.
- Cables must not become trapped.

Luggage

Securing luggage on motorcycle

WARNING

Reduced riding stability caused by overloading and uneven loading

Accident hazard

- Do not exceed the gross weight limit and observe the loading information.◀



Secure luggage (e.g. rear bag) on lashing eyes **1**.

Additional information on luggage systems and their fastening is available at your authorized BMW Motorrad retailer.

Passenger frame

Removing passenger frame

ATTENTION

Hard or sharp-edged components

Scratching or damage to the paint

- Use pads or tape off the areas at risk of scratching or damage.◀

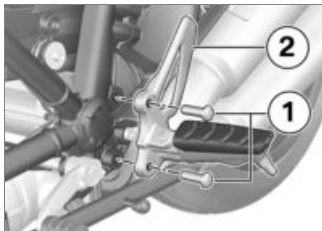


NOTICE

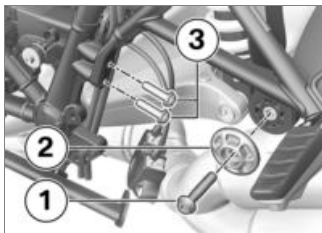
The installation of an additional OA (silencer bracket) is essential for removing the passenger frame.

Detailed information can be obtained from your authorized BMW Motorrad retailer or online at **www.bmw-motorrad.com**. Please observe the general information at the beginning of this chapter.◀

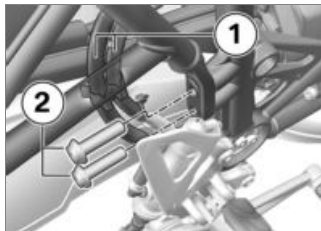
- Park motorcycle, ensuring that support surface is firm and level.
- Installing rear-wheel stand (▮▮▮ 94).
- Remove passenger seat (▮▮▮ 56).
- Remove rider's seat (▮▮▮ 56).



- Remove screws **1** and take off left footrest system **2**.



- Remove screw **1** and washer **2**.
- Remove screws **3**.

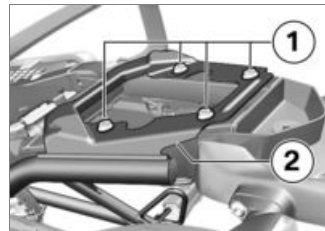


ATTENTION

Pinching of components

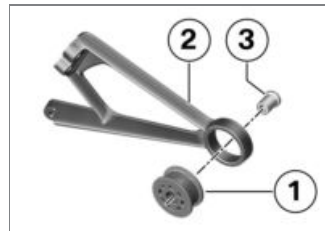
Component damage

- Do not pinch components, e.g. brake lines or wiring harnesses. ◀
- Detach lines **1** from bracket.
- Remove screws **2**.

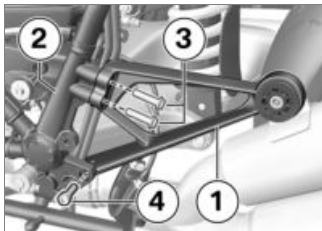


- Remove screws **1** and take off passenger frame **2** backwards.

– with carrier for silencer^{OA}



- Secure decoupling elastic element **1** in bracket **2** for silencer and install shouldered bushing **3** from the right.



- Position bracket **1** for silencer on rear frame **2**.
- Install screws **3** and **4** loosely.
- Tighten screws **3**.



Passenger seat frame on rear frame

14 lb/ft (19 Nm)

- Tighten screw **4**.



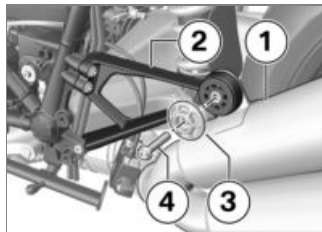
Bracket for silencer on rear frame

– with carrier for silencer^{OA}

14 lb/ft (19 Nm)

14 lb/ft (19 Nm)<<

– with carrier for silencer^{OA}

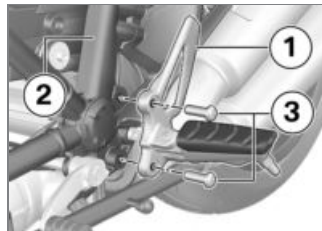


- Align silencer **1** on bracket **2**, position washer **3** and install screw **4**.



Silencer on bracket

7 lb/ft (10 Nm)<



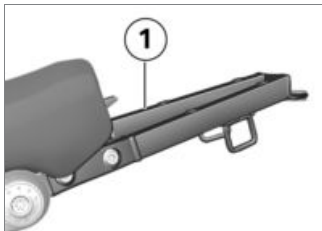
- Fit footrest system **1** to rear frame **2** on left and install screws **3**.



Footrest system on rear frame

14 lb/ft (19 Nm)

Loading correctly without passenger frame



WARNING

Reduced riding stability caused by overloading and uneven loading

Accident hazard

- Do not exceed the gross weight limit and observe the loading information.◀
- After the passenger frame is removed, the maximum load in the area of the luggage rack **1** (see figure) must be complied with.



Load capacity of the luggage frame

max 18 lbs (max 8 kg)

Installing passenger frame

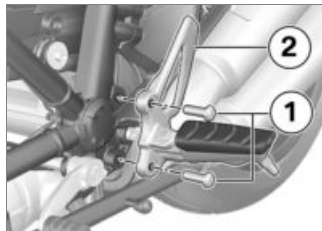


ATTENTION

Hard or sharp-edged components

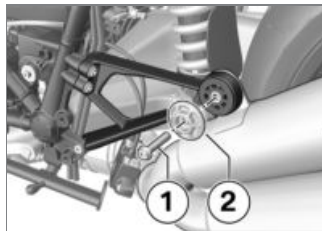
Scratching or damage to the paint

- Use pads or tape off the areas at risk of scratching or damage.◀
- Parking your motorcycle (➡ 125).
- Installing rear-wheel stand (➡ 94).
- Remove rider's seat (➡ 56).

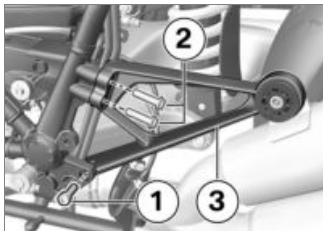


- Remove screws **1** and take off left footrest system **2**.

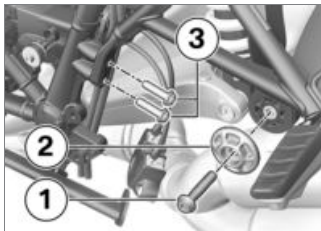
– with carrier for silencer^{OA}



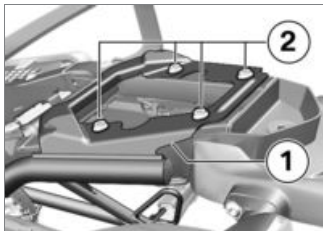
- Remove screw **1** and washer **2**.



- Remove screws **1** and **2**.
- Take off bracket **3** for silencer.◀



- Install screw **1** and lock washer **2** loosely.
- Install screws **3**.



- Insert passenger seat frame **1** from rear and install screws **2** loosely.

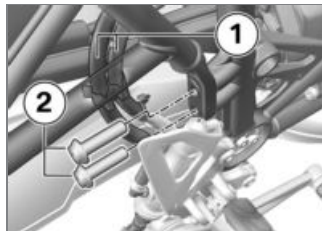
 Passenger seat frame on rear frame

14 lb/ft (19 Nm)

- Tighten the screw **1**.

 Silencer on passenger frame

14 lb/ft (19 Nm)



ATTENTION

Pinching of components

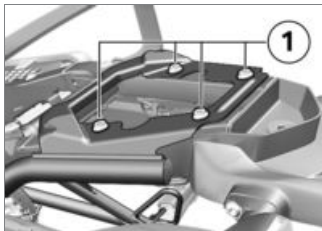
Component damage

- Do not pinch components, e.g. brake lines or wiring harnesses.◀

- Secure wires **1** in bracket **2**.
- Install screws **2**.

 Passenger seat frame on rear frame

14 lb/ft (19 Nm)

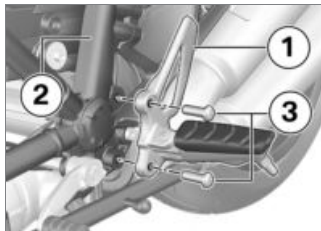


- Tighten screws **1**.

 Passenger seat from on luggage frame

6 lb/ft (8 Nm)

- Remove adhesive tape.



- Fit footrest system **1** to rear frame **2** on left and install screws **3**.

 Footrest system on rear frame

14 lb/ft (19 Nm)

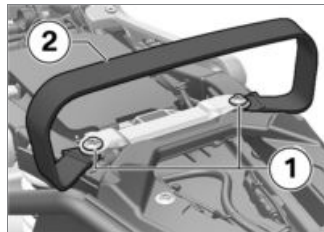
- Installing rider's seat (➡ 56).
- Install passenger seat (➡ 57).
- Remove rear-wheel stand.

Hump cover

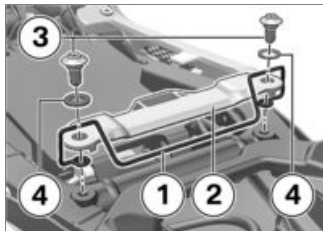
– with hump cover^{OA}

Install the hump cover

- Remove passenger seat (➡ 56).
- Remove rider's seat (➡ 56).



- Remove the screws **1** and save them for reuse.
- Remove the retaining belt **2**.



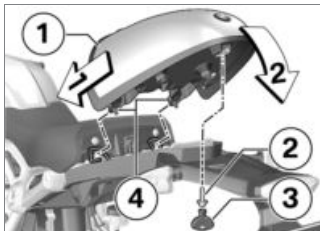
- Insert the retaining bracket **1** below the retaining bridge for the rider's seat **2**.
- Install screws **3** with washers **4**.



Retaining bridge on rear frame

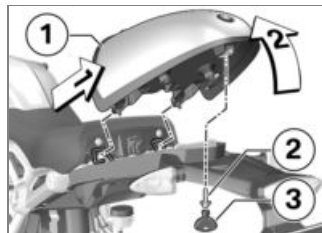
6 lb/ft (8 Nm)

- Installing rider's seat (➡ 56).

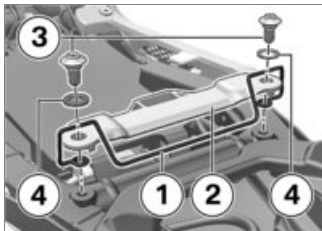


- Insert the hump cover **1** in the retaining bracket, making sure that the stop pads **4** of the hump cover are engaged in the retaining bracket.
- Hand-tighten the screw **2** with the motorcycle seat key **3**.

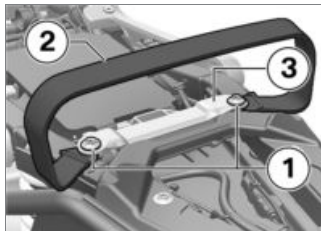
Remove the hump cover



- Remove the screw **2** with the motorcycle seat key **3**.
- Pull the hump cover **1** back and remove it.



- Remove the screws **3** with washers **4**.
- Remove the retaining bracket **1** below the retaining bridge for the rider's seat **2**.



- Insert the retaining belt **2** below the retaining bridge for the rider's seat **3**.
- Install screws **1**.



Retaining bridge on rear frame

6 lb/ft (8 Nm)

- Installing rider's seat (➡ 56).
- Install passenger seat (➡ 57).

Optional accessories

Optional accessory



Your authorized BMW Motorrad Retailer offers you qualified advice in choosing genuine BMW parts, accessories and other products such as aluminum humps or covers for the rear frame.

You can find all optional accessories from BMW Motorrad on our Internet site: "www.bmw-motorrad.com".

Care

Care products	134
Washing your motorcycle	134
Cleaning sensitive motorcycle parts	135
Paint care	136
Paint preservation.....	136
Store motorcycle	136
Return motorcycle to use	136

Care products

BMW Motorrad recommends that you use cleaning and care products available at your authorized BMW Motorrad retailer. BMW Motorrad Care Products have been materials tested, laboratory tested, and field tested and provide optimum care and protection for the materials used in your vehicle.



ATTENTION

Use of unsuitable cleaning and care agents

Damage to motorcycle parts

- Do not use any solvents such as nitro thinners, cold cleaners, fuel or similar, and do not use cleaning agents that contain alcohol. ◀



ATTENTION

Use of highly acidic or alkaline cleaning agents

Damage to motorcycle parts

- Observe the dilution ratio on the packaging of the cleaning agents.
- Do not use highly acidic or alkaline cleaning agents. ◀

Washing your motorcycle

BMW Motorrad recommends that you use BMW Insect Remover to soften and wash off insects and stubborn dirt from painted parts before washing the motorcycle.

To prevent stains, do not wash the vehicle immediately after it has been exposed to bright sunlight and do not wash it in the sun.

Make sure that the vehicle is washed frequently, especially during the winter months. To remove road salt, clean the motorcycle with cold water immediately after completion of every trip.



WARNING

Damp brake disks and brake pads after washing the motorcycle, after riding through water or in the rain

Poorer braking action, accident hazard

- Brake early until the brake rotors and brake pads are dry. ◀



ATTENTION

Increased effect of salt caused by warm water

Corrosion

- Only use cold water to remove road salt. ◀



ATTENTION

Damage caused by high water pressure from high-pressure cleaners or steam-jet devices

Corrosion or short circuit, damage to labels, to seals, to hydraulic brake system, to the electrical system and the seat

- Exercise caution when using high-pressure or steam-jet devices. ◀

Cleaning sensitive motorcycle parts

Plastics



ATTENTION

Use of unsuitable cleaning agents

Damage to plastic surfaces

- Do not use abrasive cleaners or cleaners containing alcohol or solvents.
- Do not use insect sponges or sponges with a hard surface. ◀

Trim panel components

Clean trim panel components with water and BMW Motorrad cleaning agent.

Headlight diffuser and turn indicator glass made of plastic

Clean off dirt and insects with a soft sponge and plenty of water.



NOTICE

Soften stubborn dirt and dead insects by covering the affected areas with a wet cloth. ◀



Clean with water and sponge only.



Do not use chemical cleaning agents.

Chrome

Carefully clean chrome parts with plenty of water and BMW Motorrad Care Products motorcycle cleaner. This is particularly important in the case of road salt.

Use BMW Motorrad metal polish for additional treatment.

Radiator

Clean the radiator regularly to prevent overheating of the engine due to inadequate cooling. For example, use a garden hose with low water pressure.



ATTENTION

Bending of radiator fins

Damage to radiator fins

- When cleaning, ensure that the cooler fins are not bent. ◀

Rubber

Treat rubber 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.◀

Paint care

Washing the motorcycle regularly will help counteract the long-term effects of substances that damage the paint, especially if your motorcycle is ridden in areas with high air pollution or natural sources of dirt, such as tree resin or pollen.

However, remove particularly aggressive materials immediately; otherwise changes in the paint or discoloration can occur. These

include spilled fuel, oil, grease and brake fluid as well as bird droppings. BMW Motorrad recommends using a solvent cleaner and then applying a BMW Motorrad high gloss polish to preserve the paint.

Contamination on the paint finish is particularly easy to see after the motorcycle has been washed. Remove this type of soiling with cleaning naphtha or spirit on a clean cloth or cotton ball. BMW Motorrad recommends removing tar stains with BMW tar remover. Then add a protective wax coating to the paint at these locations.

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.

Store motorcycle

- Completely fill the motorcycle's fuel tank.
- Clean motorcycle.
- Remove battery.
- Spray brake lever and clutch lever, as well as side stand pivots with a suitable lubricant.
- Coat bare metal and chrome-plated parts with an acid-free grease (Vaseline).
- Park motorcycle in a dry room, raising it to remove weight from both wheels.

Return motorcycle to use

- Remove the protective wax coating.
- Clean motorcycle.
- Install a charged battery.

- Observe checklist before starting.

Technical data

Troubleshooting chart	140
Screw connections	141
Fuel.....	145
Engine oil	146
Engine	146
Clutch	147
Transmission	147
Rear-wheel drive.....	148
Frame	148
Chassis	149
Brakes	150
Wheels and tires	151
Electrical system.....	152
Dimensions	153
Weights.....	154

Performance data	154
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Troubleshooting chart

Engine does not start at all or is very difficult to start.

Possible cause	Remedy
Emergency on/off switch (kill switch)	Emergency off switch in normal operating position
Side stand is extended and gear is engaged.	Fold in side stand.
Gear is engaged and clutch is not operated.	Shift transmission to neutral or disengage clutch.
Fuel tank is empty.	Refueling procedure (▮▮▮ 82).
Battery is drained.	Charging a connected battery (▮▮▮ 118).
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.

Screw connections

Front wheel	Value	Valid
Brake caliper on telescopic forks		
M10 x 65	28 lb/ft (38 Nm)	
Clamping screw in axle adapter		
M8 x 35	Tightening sequence: Tighten the screws 6 times, alternating between one and the other each time 14 lb/ft (19 Nm)	
Screw in quick-release axle		
M20 x 1.5 18	37 lb/ft (50 Nm)	
Rear wheel	Value	Valid
Rear wheel on wheel carrier		
M10 x 53 x 1.25	Tightening sequence: Tighten cross-wise 44 lb/ft (60 Nm)	

Mirror arm		Value	Valid
Mirror (locknut) on adapter			
M10 x 1.25		Left-hand thread, 16 lb/ft (22 Nm)	
Adapter to clamping block			
M10 x 14 - 4.8		18 lb/ft (25 Nm)	
Headlight		Value	Valid
Headlight on bracket			
M8 x 40		14 lb/ft (19 Nm)	
Front wheel cover		Value	Valid
Front wheel cover on fork			
M5 x 20		4 lb/ft (5 Nm)	
Frame		Value	Valid
Footrest system on rear frame			
M8 x 25		14 lb/ft (19 Nm)	
Passenger seat frame on rear frame			
M8 x 30		14 lb/ft (19 Nm)	

Frame	Value	Valid
Passenger seat from on luggage frame		
M6 x 20	6 lb/ft (8 Nm)	
Retaining bridge on rear frame		
M6 x 14.5	6 lb/ft (8 Nm)	
Exhaust system	Value	Valid
Clamp on silencer and exhaust manifold		
M8 x 40 - 10.9	21 lb/ft (28 Nm)	
Silencer on passenger frame		
M8 x 40	14 lb/ft (19 Nm)	
Bracket for silencer on rear frame		
M8 x 30	14 lb/ft (19 Nm)	– with carrier for silencer ^{OA}
M8 x 25	14 lb/ft (19 Nm)	

Exhaust system	Value	Valid
Silencer on bracket		
M8 x 40	7 lb/ft (10 Nm)	– with carrier for silencer ^{OA}

Fuel

Recommended fuel quality	Premium grade unleaded fuel (max. 5 % ethanol, E5) 91 AKI (98 ROZ/RON) 93 AKI
Alternative fuel quality	Premium unleaded (max. 15 % ethanol, E15) 89 AKI (95 ROZ/RON)
Usable fuel quantity	Approx. 4.8 gal (Approx. 18 l)
Reserve fuel quantity	Approx. 3.2 quarts (Approx. 3 l)
Fuel consumption	44 mpg (5.3 l/100 km), in accordance with WMTC
CO2 emissions	123 g/km, in accordance with WMTC
Emission standard	Euro 4

Engine oil

Engine oil, capacity	max 1 gal (max 3.95 l), with filter replacement
Specification	SAE 15W-50, 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 Pro Oil
Engine oil, quantity for topping up	max 0.5 quarts (max 0.5 l), Difference between MIN and MAX

BMW recommends **ADVANTEC**
ORIGINAL BMW ENGINE OIL

Engine

Engine number location	On crankcase at lower right, below starter motor
Engine type	12 2E J
Engine design	Longitudinally mounted two-cylinder opposed-twin engine with two overhead camshafts each, four radially arranged valves per cylinder, air cooling, oil-cooled outlet area and electronic engine management
Displacement	1170 cc (1170 cm ³)
Cylinder bore	4 in (101 mm)

Piston stroke	2.9 in (73 mm)
Compression ratio	12.0:1
Nominal capacity	110 hp (81 kW), at engine speed: 7750 min ⁻¹
Torque	86 lb/ft (116 Nm), at engine speed: 6000 min ⁻¹
Maximum engine speed	max 8500 min ⁻¹
Idle speed	1150±50 min ⁻¹ , Engine at operating temperature

Clutch

Clutch design	Single-plate dry clutch
---------------	-------------------------

Transmission

Transmission design	Helical 6-gear transmission with integrated torsional vibration damper, claw shift via sliding sleeves
Transmission gear ratios	1.737, Primary gear ratio 2.375 (38:16 teeth), 1st gear 1.696 (39:23 teeth), 2nd gear 1.296 (35:27 teeth), 3rd gear 1.065 (33:31 teeth), 4th gear 0.939 (31:33 teeth), 5th gear 0.848 (28:33 teeth), 6th gear

Rear-wheel drive

Type of final drive	Cardan shaft drive with bevel gears
Type of rear-wheel guide	Cast aluminum single-sided swinging arm with BMW Motorrad Paralever
Gear ratio of rear-wheel drive	2.910 (32/11 teeth)
Rear axle differential oil	SAE 70W-80 / hypoid axle G3

Frame

Frame design	Lattice-tube frame with supporting drive unit
Location of type plate	Frame at front left on steering head
Location of the vehicle identification number	Rear frame at lower front right

Chassis

Front wheel

Type of front suspension	Upside down telescopic forks, diameter 46 mm, adjustable rebound and compression stage
Spring travel, front	4.7 in (120 mm), on wheel

Rear wheel

Type of rear-wheel guide	Cast aluminum single-sided swinging arm with BMW Motorrad Paralever
Design of rear-wheel suspension	Central spring strut with coil spring, adjustable rebound-stage damping and spring preload
Spring travel on the rear wheel	4.7 in (120 mm), on wheel
Recommendation on chassis and suspension adjustment for one-up operation	Spring preload, Turn adjustment wheel counter-clockwise as far as possible Damping, Turn adjusting screw as far as possible clockwise, then turn back 1.5 turns
Recommendation on chassis and suspension adjustment for two-up mode	Spring preload, Turn adjustment wheel clockwise up to stop Damping, Turn adjustment wheel clockwise up to stop, then turn back by 0.75 turns

Brakes

Front wheel

Type of front wheel brake	Hydraulically operated double disc brakes with 4-piston radial monobloc calipers and floating brake discs
Front brake pad material	Sintered metal
Front brake disc thickness	min 0.16 in (min 4 mm), Wear limit
Free travel of brake actuation (Front wheel brake)	0.03...0.07 in (0.7...1.7 mm), at piston

Rear wheel

Type of rear wheel brake	Hydraulically operated disc brake with 2-piston floating caliper and fixed brake disc
Rear brake pad material	Organic
Rear brake disc thickness	min 0.18 in (min 4.5 mm), Wear limit
Free travel of brake actuation (Rear wheel brake)	0.02...0.04 in (0.5...0.9 mm), at piston

Wheels and tires

Recommended tire combinations	An overview of the current tire approvals is available from your authorized BMW Motorrad retailer or on the Internet at bmw-motorrad.com .
Speed category of front/rear tires	V, minimum requirement: 149 mph (240 km/h)

Front wheel

Front wheel design	Spoke wheel with 40 spokes
Front-wheel rim size	3.5" x 17"
Front tire designation	120 / 70 ZR 17
Load index for front tire	At least 58
Permitted front wheel imbalance	max 0.2 oz (max 5 g)

Rear wheel

Rear wheel design	Spoke wheel with 40 spokes
Rear-wheel rim size	5.50" x 17"
Rear tire designation	180 / 55 ZR 17
Load index for rear tire	At least 73
Permitted rear wheel imbalance	max 0.2 oz (max 5 g)

Tire pressures

Front tire pressure	36.3 psi (2.5 bar), with tire cold
Rear tire pressure	39.2 psi (2.7 bar), One-up, with cold tires 42.1 psi (2.9 bar), Two-up and cargo, with cold tires

Electrical system

Electrical rating of onboard socket	5 A
-------------------------------------	-----

Fuses

Fuse 1	10 A, Instrument cluster, anti-theft alarm system DWA, ignition switch, OBD diagnostic socket, coil for cut-off relay
Fuse 2	4 A, ABS control unit, engine control unit, output cut-off relay, speedometer, rotational-speed sensor, alternator

Battery

Battery design	AGM battery (Absorbent Glass Mat)
Battery voltage	12 V
Battery capacity	12 Ah

Spark plugs

Spark plugs, manufacturer and designation	NGK MAR8B-JDS
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Light sources

Bulb for low-beam and high-beam headlight	H4 / 12 V / 60/55 W
Bulb for parking light	W5W / 12 V / 5 W
Bulb for taillight/brake light	LED
Bulbs for flashing turn indicators, front	RY10W / 12 V / 10 W
Bulbs for flashing turn indicators, rear	RY10W / 12 V / 10 W

Dimensions

Motorcycle length	83.1 in (2110 mm), measured over rear wheel
Motorcycle height	48.8 in (1240 mm), in DIN normal position; with mirrors
Motorcycle width	34.6 in (880 mm), using handlebar levers
Front-seat height	31.7 in (805 mm), without rider
Rider's inside-leg arc, heel to heel	70.3 in (1785 mm), without rider

Weights

Unloaded vehicle weight	489 lbs (222 kg), DIN unladen weight, ready for road, 90 % full tank of gas, without OE
Gross vehicle weight	948 lbs (430 kg)
Maximum payload	459 lbs (208 kg)

Performance data

Maximum speed	>124 mph (>200 km/h)
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Service

Reporting safety defects	156
BMW Motorrad Service	157
BMW Motorrad Service History	157
BMW Motorrad Mobility Services	158
Maintenance work	158
Maintenance schedule	161
Maintenance confirmations	162
Service confirmations	176

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> 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>.

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 conduct all maintenance and repair tasks on your BMW reliably.

You will find the nearest authorized BMW Motorrad retailer to you at our website:

bmw-motorrad.com



WARNING

Improperly performed maintenance and repair work

Accident hazard caused by subsequent damage

- BMW Motorrad recommends having corresponding work on the motorcycle carried out by a specialized workshop,

preferably by an authorized BMW Motorrad retailer. ◀

To ensure that your BMW consistently remains in optimal condition BMW Motorrad urges you to observe the recommended maintenance intervals. Have all maintenance and repair tasks confirmed in the "Service" chapter in these Operating Instructions. Documented proof of scheduled maintenance is essential for generous treatment of claims submitted after the warranty period has expired (good-will).

You can obtain information on the contents of the BMW 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 Manual, service-related data is stored on the central IT systems of BMW AG in Munich, Germany.

When there is a change in vehicle owner, the data entered in the 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 Manual.

Objection

At the BMW Motorrad retailer or specialist workshop, the vehicle owner can object to the entry of data in the electronic Service Manual with the related storage of data in the vehicle and the transfer of data to the vehicle manufacturer during his time as the vehicle owner. In this case, no entry is made in the vehicle's electronic Service Manual.

BMW Motorrad Mobility Services

As the owner of a new BMW motorcycle, you can benefit from the protection afforded by the various BMW Motorrad mobility services in the event of a breakdown (e.g., BMW Roadside Assistance, breakdown service, vehicle recovery service).

Contact your authorized BMW Motorrad retailer for

additional information on available mobility services.

Maintenance work

BMW pre-delivery check

The BMW pre-delivery check is carried out by your authorized BMW Motorrad retailer before it turns the motorcycle over to you.

BMW running-in check

The BMW running-in check must be performed when the motorcycle has covered between 300 mi and 750 mi (500 km and 1200 km).

BMW Service

BMW service is carried out once a year. The scope of the services performed may be dependent on the vehicle owner and the mileage driven. Your BMW Motorrad retailer confirms that the service has been per-

formed and enters the date for the next service.

For riders who drive long distances annually, it may be necessary to come in for service before the entered date. In this case a corresponding maximum odometer reading will also be entered in the confirmation of service. If this odometer reading is reached before the next service date, service must be performed sooner.

The service display in the multi-function display reminds you of the next service date approx. one month or 620 miles (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 motorcycle can be found in the following 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		X ^b
⑤		X	X	X	X	X	X	X	X	X	X		
⑥					X				X			X ^c	X ^c
⑦			X		X		X		X		X		
⑧			X		X		X		X		X		
⑨					X ^d				X ^d				
⑩				X			X			X			
⑪		X	X	X	X	X	X	X	X	X	X		
⑫												X ^e	X ^e

Maintenance schedule

- 1** BMW Running-in check (including oil change)
 - 2** BMW Service Standard Scope
 - 3** Engine oil change with filter
 - 4** Oil change in the rear bevel gears
 - 5** Check valve clearance
 - 6** Changing the transmission oil
 - 7** Replace all spark plugs
 - 8** Replacing air cleaner insert
 - 9** Replacing alternator belt
 - 10** Telescopic fork oil change
 - 11** Adjusting engine synchronization
 - 12** Change brake fluid in entire system
- ^a annually or every 6000 miles (10000 km) (whichever comes first)

- ^b annually or every 12000 miles (20000 km) (whichever comes first)
- ^c for the first time after one year, then every two years or 24000 mls (40000 km) (whichever comes first)
- ^d every six years or every 24000 mls (40000 km) (whichever comes first)
- ^e for the first time after one year, then every two years

Maintenance confirmations

BMW Service standard scope

The repair procedures belonging to the BMW Service standard package are listed below. The actual maintenance work applicable for your vehicle may differ.

- Performing the vehicle test using the BMW Motorrad diagnosis system
- Visual inspection of the clutch system
- Checking steering-head bearing
- 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
- Checking for play in the throttle cable
- Checking the tire pressure and tread depth
- Checking side stand for ease of movement
- Check the tension of the spokes and tighten as needed
- Checking the lighting and signal system
- Functional check for engine starting suppression
- Final inspection and road safety check
- Set the service date and remaining distance using the BMW Motorrad diagnostic system
- Checking charging state of battery
- Confirm the BMW service in the vehicle literature

BMW pre-delivery check

performed

on _____

Stamp, signature

BMW Running-in Check

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Stamp, signature

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

BMW Service

Yes

No

☐☐

Engine oil change with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Changing gear oil

☐☐

Replacing all spark plugs

☐☐

Replacing air cleaner element

☐☐

Replacing alternator drive belt

☐☐

Oil change - telescopic fork

☐☐

Adjusting engine synchronization

☐☐

Changing front brake fluid

☐☐

Changing brake fluid, rear

☐☐

Information

Stamp, signature

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

BMW Service

Yes

No

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Engine oil change with filter

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☐

Oil change in rear bevel gears

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☐

Checking valve clearance

☐
☐

Changing gear oil

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Replacing all spark plugs

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Replacing air cleaner element

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Replacing alternator drive belt

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Oil change - telescopic fork

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☐

Adjusting engine synchronization

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Changing front brake fluid

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Changing brake fluid, rear

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Information

Stamp, signature

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

Yes

No

☐☐

Engine oil change with filter

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Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Changing gear oil

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Replacing all spark plugs

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Replacing air cleaner element

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Replacing alternator drive belt

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Oil change - telescopic fork

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Adjusting engine synchronization

☐☐

Changing front brake fluid

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Changing brake fluid, rear

☐☐

Information

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

BMW Service

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No

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Oil change in rear bevel gears

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Checking valve clearance

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Changing gear oil

☐☐

Replacing all spark plugs

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Replacing alternator drive belt

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Oil change - telescopic fork

☐☐

Adjusting engine synchronization

☐☐

Changing front brake fluid

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Changing brake fluid, rear

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Information

Stamp, signature

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

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☐☐

Engine oil change with filter

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Oil change in rear bevel gears

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Changing gear oil

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Replacing alternator drive belt

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Oil change - telescopic fork

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Adjusting engine synchronization

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Changing front brake fluid

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Changing brake fluid, rear

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Information

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

BMW Service

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☐☐

Engine oil change with filter

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Oil change in rear bevel gears

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Checking valve clearance

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Oil change - telescopic fork

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Adjusting engine synchronization

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Changing front brake fluid

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Changing brake fluid, rear

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Information

Stamp, signature

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

Yes

No

☐☐

Engine oil change with filter

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Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Changing gear oil

☐☐

Replacing all spark plugs

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Replacing air cleaner element

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Replacing alternator drive belt

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Oil change - telescopic fork

☐☐

Adjusting engine synchronization

☐☐

Changing front brake fluid

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Changing brake fluid, rear

☐☐

Information

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

BMW Service

Yes

No

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Engine oil change with filter

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Oil change in rear bevel gears

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Checking valve clearance

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Changing gear oil

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Replacing all spark plugs

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Replacing air cleaner element

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Replacing alternator drive belt

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Oil change - telescopic fork

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Adjusting engine synchronization

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Changing front brake fluid

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Changing brake fluid, rear

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Information

Stamp, signature

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

Yes

No

☐☐

Engine oil change with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Changing gear oil

☐☐

Replacing all spark plugs

☐☐

Replacing air cleaner element

☐☐

Replacing alternator drive belt

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Oil change - telescopic fork

☐☐

Adjusting engine synchronization

☐☐

Changing front brake fluid

☐☐

Changing brake fluid, rear

☐☐

Information

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

BMW Service

Yes

No

☐
☐

Engine oil change with filter

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Oil change in rear bevel gears

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Checking valve clearance

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Changing gear oil

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Replacing all spark plugs

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Replacing air cleaner element

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Replacing alternator drive belt

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Oil change - telescopic fork

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Adjusting engine synchronization

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Changing front brake fluid

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Changing brake fluid, rear

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Information

Stamp, signature

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

Yes

No

☐☐

Engine oil change with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Changing gear oil

☐☐

Replacing all spark plugs

☐☐

Replacing air cleaner element

☐☐

Replacing alternator drive belt

☐☐

Oil change - telescopic fork

☐☐

Adjusting engine synchronization

☐☐

Changing front brake fluid

☐☐

Changing brake fluid, rear

☐☐

Information

BMW Service

performed

on _____

at km _____

Next service

latest

on _____

or, if reached earlier

at km _____

Work performed

BMW Service

Yes

No

☐
☐

Engine oil change with filter

☐
☐

Oil change in rear bevel gears

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☐

Checking valve clearance

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☐

Changing gear oil

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Replacing all spark plugs

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Replacing air cleaner element

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Replacing alternator drive belt

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Oil change - telescopic fork

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☐

Adjusting engine synchronization

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☐

Changing front brake fluid

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Changing brake fluid, rear

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Information

Stamp, signature

The table serves to provide evidence of maintenance and repair work, as well as installed optional accessories and special campaigns performed.

[illegible]

Work performed	at km	Date

Appendix

Certificate for electronic immobilizer	180
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FCC Approval

Ring aerial in the ignition switch



To verify the authorization of the ignition key, the electronic immobilizer exchanges information with the ignition key via the ring aerial.

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

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



Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. ◀

Approbation de la FCC

Antenne annulaire présente dans le commutateur d'allumage



Pour vérifier l'autorisation de la clé de contact, le système d'immobilisation électronique échange des

informations avec la clé de contact via l'antenne annulaire.

Le présent dispositif est conforme à la partie 15 des règles de la FCC. Son utilisation est soumise aux deux conditions suivantes :

- (1) Le dispositif ne doit pas produire d'interférences nuisibles, et
- (2) le dispositif doit pouvoir accepter toutes les interférences extérieures, y compris celles qui pourraient provoquer une activation inopportune.



Toute modification qui n'aurait pas été approuvée expressément par l'organisme responsable de l'homologation peut annuler l'autorisation accordée à l'utilisateur pour utiliser le dispositif. ◀

A

Abbreviations and symbols, 6

ABS

Indicator and warning light, 32

Operating, 53

Self-diagnosis, 78

Technology in detail, 86

Accessories

General notes, 124

Anti-theft alarm system

Activating, 49

Adjusting, 50

Deactivating, 49

Indicator light, 21

Operating, 49

Warning indicator, 33

ASC

Indicator and warning light, 32

Operating, 54

Self-diagnosis, 78

Switching off, 54

Switching on, 54

Technology in detail, 88

Automatic Stability Control

ASC, 88

Average fuel consumption

display: CONS, 46

Resetting, 47

Average speed

display: SPEED, 46

Resetting, 47

B**Battery**

Charging a disconnected
battery, 118

Maintenance instructions, 117

Position on motorcycle, 18

Recharging connected
battery, 118

Replacing the battery, 119

Technical data, 152

Vehicle voltage too low, 31

Brake fluid

Check fluid level at rear, 101

Check front fluid level, 100

Front reservoir, 17

Rear reservoir, 17

Brake pads

Break-in, 79

Check front, 97

Check rear, 98

Brakes

Adjusting handlebar lever, 62

Checking operation, 97

Safety information, 80

Technical data, 150

Wear indicator, 99

Break-in, 79**C****Care**

Chrome, 135

Paint preservation, 136

Chassis

Technical data, 149

Checklist, 76**Clock**

Adjusting, 50

Control, 21

display: CLOCK, 44

Clutch
Adjusting handlebar lever, 61
Checking operation, 102
Fluid reservoir, 15
Technical data, 147

Coolant
Warning light for
overtemperature, 30
Coolant temperature
display: ENG TMP, 44
too high, 30

Current fuel consumption
display: CONS C, 46

D

Damping
Adjusting, 65

Date
Adjusting, 51
display: DATE, 46

Diagnostic socket
fasten, 120
Loosen, 120

Dimensions
Technical data, 153

Display
Adjusting brightness, 52
Distance recorder
Control, 21
Resetting, 47

E

Electrical system
Technical data, 152
Emergency-off switch, 20
Operating, 40
Engine
Indicator light for engine
electronics, 30
Severe fault, 31
Starting, 76
Technical data, 146

Engine oil
Check fill level, 95
Filling location, 17
Fluid level indicator, 15
Technical data, 146
Topping up, 96
Equipment, 7

F

Frame
Technical data, 148
Front wheel stand
Mounting, 93
Fuel
Filler neck, 15
Fuel reserve, 34
Refueling procedure, 82
Technical data, 145
Fuel reserve
display distance covered:
TRIP R, 44
Indicator lamp, 34
Fuses
Fuse assignment, 120
Replacing, 119
Technical data, 152

H

Hazard warning flasher
Control, 19
Operating, 42

H

- Headlight
 - Headlight beam throw, 60
 - Removing and installing, 111
 - Setting for right-hand/left-hand traffic, 60
- Headlight courtesy delay
 - feature, 41
- Heated grips
 - Operating, 55
- Horn, 19
- Hump cover, 130, 131

I

- Ignition
 - Switching off, 39
 - Switching on, 38
- Immobilizer
 - Spare key, 39
 - Warning indicator, 30
- Indicator lights, 21
 - ABS, 32
 - Alarm system, 33
 - ASC, 32
 - Coolant temperature, 30
 - Display, 26

E

- Electronic engine management, 30
- Electronic immobilizer, 30
- Engine warning, 31
- Fuel reserve, 34
- Light source defective, 31
- Overheating, 30
- Overview, 24
- Vehicle voltage too low, 31
- Instrument cluster
 - Ambient light photosensor, 21
 - Overview, 21

J

- Jump-starting, 116

K

- Keys, 38

L

- Light sources
 - High-beam headlight, 112
 - Low-beam headlight, 112
 - Parking lights, 113
 - Replacing LED tail light, 116
 - Technical data, 153

T

- Turn signals, 114
- Warning indicator for faulty light source, 31

L

- Lights
 - Control, 19
 - Headlight courtesy delay
 - feature, 41
 - Low-beam headlight, 40
 - Operating headlight flasher, 41
 - Operating high-beam headlight, 41
 - Operating parking lights, 41
 - Parking lights, 40
- Luggage
 - Lashing, 125

M

- Maintenance
 - General notes, 92
 - Maintenance schedule, 161
- Maintenance confirmations, 162
- Maintenance intervals, 158
- Mirrors
 - Adjusting, 60
- Mobility Services, 158

Motorcycle
 Care, 133
 Cleaning, 133
 Parking, 81
 Returning to use, 136
 Storage, 136
 Tying down, 83
Multifunction display, 21
 Overview, 25
 Selecting display readings, 44
Multifunction switch
 General view, left, 19
 General view, right, 20

N

Notice concerning current status, 8

O

Odometer
 display: ODO, 44
Onboard vehicle toolkit
 Position on motorcycle, 18

Operating Instructions
 Position on vehicle, 18
Overview of warning indicators, 27
Overviews
 Indicator and warning lights, 24
 Instrument cluster, 21
 Left side of motorcycle, 15
 Left-side multifunction switch, 19
 Multifunction displays, 25
 Right handlebar fitting, 20
 Right side of motorcycle, 17
 Underneath the seat, 18

P

Passenger frame
 Installing, 128
 Removing, 125
Passenger seat
 Installing, 56
 Locking mechanism, 17
 Removing, 56
Payload table
 Sign, 18

Performance data
 Technical data, 154
Pre-Ride-Check, 77

R

Rear-wheel drive
 Technical data, 148
Rear-wheel stand
 Mounting, 94
Refueling, 82
Rider's seat
 Installing, 56
 Removing, 56
Riding time
 display: RDTIME, 46
 Resetting, 47
 Riding time, 35

S

Safety information
 On braking, 80
 On riding, 74
Screw connections, 141

Service, 157
 Reporting safety defects, 156
 Service History, 157
 Service display, 35
 Settings
 display: SETUP ENTER, 44
 Socket
 Information on use, 124
 Position on motorcycle, 15
 Spark plugs
 Technical data, 152
 Speedometer, 21, 25
 Spring preload
 Adjusting, 63
 Rear adjuster, 17
 Start, 76
 Control, 20
 Steering lock, 38
 Switching off, 81

T

Tachometer, 21
 Technical data
 Battery, 152
 Brakes, 150

Chassis, 149
 Clutch, 147
 Dimensions, 153
 Electrical system, 152
 Engine, 146
 Engine oil, 146
 Frame, 148
 Fuel, 145
 Fuses, 152
 General notes, 7
 Light sources, 153
 Performance data, 154
 Rear-wheel drive, 148
 Spark plugs, 152
 Standards, 7
 Transmission, 147
 Weights, 154
 Wheels and tires, 151
 Tire pressures
 Sign, 18

Tires

 Checking tire pressure, 102
 Checking tire tread depth, 102,
 103
 Recommendation, 103

 Running in, 79
 Technical data, 151
 Tire pressures, 152
 Torques, 141
 Transmission
 Technical data, 147
 Trip recorder
 display: TRIP 1, TRIP 2 or
 TRIP A, 44
 Troubleshooting chart, 140
 Turn signals
 Control, 19
 Operating, 42
 Type plate
 Position on motorcycle, 15

V

Vehicle identification number
 Position on motorcycle, 17
 Vehicle voltage
 display: VOLTGE, 46

W

Warning lights, 21
 Weights
 Technical data, 154

Wheels

Checking spokes, 103

Checking wheel rims, 102

Installing rear wheel, 110

Installing the front wheel, 106

Remove front wheel, 104

Size change, 103

Technical data, 151

The descriptions and illustrations in this manual may vary from your own motorcycle's actual equipment, depending upon its equipment level and accessories as well as your specific national version. No claims stemming from these differences can be recognized.

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

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

Errors and omissions excepted.

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WARNING

Harmful substances

Operating, servicing and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates and lead, which are known to the State of California to be carcinogenic or detrimental to childbirth or reproduction.

- To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.
- For more information visit: www.P65Warnings.ca.gov/passenger-vehicle ◀

Fuel

Tire pressures

Front tire pressure	36.3 psi (2.5 bar), with tire cold
Rear tire pressure	39.2 psi (2.7 bar), One-up, with cold tires 42.1 psi (2.9 bar), Two-up and cargo, with cold tires

BMW recommends ADVANTEC
ORIGINAL BMW ENGINE OIL

