



BMW Motorrad



Rider's manual

R 1250 RS

Vehicle data/dealership details

Vehicle data

Model

Vehicle Identification Number

Colour code

Date of first registration

Registration number

Dealership details

Person to contact in Service department

Ms/Mr

Phone number

Dealership address/phone number (company stamp)

Welcome to BMW

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

About this Rider's Manual

Please read this Rider's Manual carefully before starting to use your new BMW. It contains important information on how to operate the controls and how to make the best possible use of all your BMW's technical features. In addition, it contains information on maintenance and care to help you maintain your vehicle's reliability and safety, as well as its value.

This record of the maintenance work you have had performed on

your vehicle is a precondition for generous treatment of goodwill claims.

If the time comes to sell your BMW, please remember to hand over this Rider's Manual to the new owner. It is an important part of the vehicle.

Suggestions and criticism

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

We hope you will enjoy riding your BMW and that all your journeys will be pleasant and safe

BMW Motorrad.

01 40 9 899 771



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Overview

An important aspect of this Rider's Manual is that it can be used for quick and easy reference. Consulting the extensive index at the end of this Rider's Manual is the fastest way to find information on a particular topic or item. To first read an overview of your motorcycle, please go to the "Overview" section. All maintenance and servicing work on the motorcycle is documented in the "Service" section. This record of the maintenance work you have had performed on your vehicle is a precondition for generous treatment of goodwill claims. When the time comes to sell your BMW, please remember to hand over this Rider's Manual; it is an important part of the motorcycle.

Abbreviations and symbols



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



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



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



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



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



Indicates the end of an item of information.



Instruction.



Result of an activity.



Reference to a page with more detailed information.



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



Tightening torque.



Technical data.

NV

National-market version.

OE Optional extras.
The vehicles are assembled complete with all the BMW Motorrad optional extras originally ordered.

OA Optional accessories.
You can obtain BMW Motorrad optional accessories through your authorised BMW Motorrad dealer; optional accessories have to be retrofitted to the vehicle.

ABS Anti-lock brake system.

ASC Automatic Stability Control.

D-ESA Electronic chassis and suspension adjustment.

DTC Dynamic Traction Control (optional extra only in combination with Pro riding modes).

DWA Anti-theft alarm (Diebstahlwarnanlage).

EWS Electronic immobiliser.

RDC Tyre pressure monitoring.

Equipment

When purchasing your BMW motorcycle, you chose a model with individual equipment. This rider's manual describes optional equipment (OE) and selected optional accessories (OA) provided by BMW. Please make allowance for the fact that some equipment specifications may be described that you have not selected. Equally, country-specific de-

viations to the motorcycle shown are also possible.
If your motorcycle has equipment that is not described, you will find the relevant description in a separate manual.

Technical data

All dimensions, weights and power outputs in the rider's manual refer to the German standard DIN (Deutsches Institut für Normung e. V.) and comply with its specified tolerances. Technical data and specifications in this rider's manual serve as reference points. The vehicle-specific data may deviate from these, for example as a result of selected optional equipment, the national-market version or country-specific measuring procedures. Detailed values can be taken from the vehicle registration documents and signs on the vehicle, or can be

obtained from your authorised BMW Motorrad Retailer or another qualified service partner or specialist workshop. The specifications in the vehicle documents always have priority over the information provided in this rider's manual.

Currentness

The high safety and quality level of BMW motorcycles is ensured by constant further development in the areas of design, equipment and accessories. This may result in deviations between these operating instructions and your motorcycle. Also, mistakes cannot be completely excluded by BMW Motorrad. Please therefore understand that we do not accept any liability for claims arising from incorrect information, drawings and descriptions.

Additional sources of information

BMW Motorrad Retailer

Your BMW Motorrad Retailer will be happy to answer any questions you may have.

Internet

The rider's manual for your vehicle, operating and installation instructions for any accessories and general information on BMW Motorrad, for example relating to technology, are available at **www.bmw-motorrad.com/service**.

Certificates and operating licences

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

Data memory

General

Control units are installed in the vehicle. Control units process data that they receive, for example, from vehicle sensors, or that they generate themselves or exchange between each other. Some control units are required for the vehicle to function safely or provide assistance during riding, for example assistance systems. In addition, control units enable comfort or infotainment functions.

Information on data that has been stored or exchanged can be obtained from the manufacturer of the vehicle, for example via a separate booklet.

Personal reference

Each vehicle is identified with a clear vehicle identification number. Depending on the country, the vehicle identification num-

ber, the number plate and the corresponding authorities can be referenced to ascertain the vehicle owner. There are also other ways to use data obtained from the vehicle to trace the rider or vehicle owner, for example using the ConnectedDrive user account.

Data protection rights

In accordance with applicable data protection laws, vehicle users have certain rights in relation to the manufacturer of the vehicle or in relation to companies which collect or process personal data.

Vehicle users have the right to obtain full information at no cost from persons or entities storing personal data of the vehicle user. These entities may include:

- Manufacturer of the vehicle
- Qualified service partners
- Specialist workshops
- Service providers

Vehicle users have the right to request information on what personal data has been stored, for what purpose the data is used, and where the data comes from. To obtain this information, proof of ownership or use is required. The right to information also includes information about data that has been shared with other companies or entities. The website of the vehicle manufacturer contains the applicable data protection information. This data protection information includes information on the right to have data deleted or corrected. The manufacturer of the vehicle also provides their contact details and those of the data protection officer on their website.

The vehicle owner can also request that a BMW Motorrad Retailer or another qualified service partner or specialist workshop read out the data that is stored in the vehicle for a charge.

The vehicle data is read out using the legally prescribed socket for on-board diagnosis (OBD) in the vehicle.

Legal requirements for the disclosure of data

As part of its legal responsibilities, the manufacturer of the vehicle is obligated to make its stored data available to the relevant authorities. This data is provided in the required scope in individual cases, for example to clarify a criminal offence. In the context of applicable laws, public agencies are entitled in individual cases to read out data from the vehicle themselves.

Operating data in the vehicle

Control units process data to operate the vehicle.

This includes, for example:

- Status reports of the vehicle and its individual components, for example wheel revolutions, wheel speed, deceleration
- Environmental conditions, for example temperature

The data is only processed in the vehicle itself and is generally non-permanent. The data is not stored beyond the operating period.

Electronic components, for example control units, contain components for storing technical information. Information can be temporarily or permanently stored on the vehicle condition, component loads, incidents or errors. This information is generally used to document the condition of a component, a module, a system

or the surrounding area, for example:

- Operating conditions of system components, for example filling levels, tyre pressure
- Malfunctions and faults in important system components, for example light and brakes
- Response of the vehicle in special riding situations, for example engagement of the driving dynamics systems
- Information on incidents resulting in damage to the vehicle

The data is necessary for the provision of control unit functions. Furthermore, the data is used to detect and rectify malfunctions and to enable the vehicle manufacturer to optimise vehicle functions.

The vast majority of this data is non-permanent and is only processed in the vehicle itself. Only a small amount of the data is

stored in incident or fault memories as required by events.

If services are accessed, for example repairs, service processes, warranty cases and quality assurance measures, this technical information can be read out of the vehicle together with the vehicle identification number.

The information can be read out by a BMW Motorrad Retailer or another qualified service partner or specialist workshop. The legally stipulated socket for on-board diagnosis (OBD) in the vehicle is used to read out the data.

The data is obtained, processed and used by the relevant parts of the retailer network. The data is used to document the technical conditions of the vehicle, to help with error localization, to comply with warranty obligations and to improve quality.

In addition, the manufacturer has various product monitoring obligations arising from product liability legislation. To meet these obligations, the vehicle manufacturer requires technical data from the vehicle. The data from the vehicle can also be used to check warranty claims from the customer.

Error and incident memories in the vehicle can be reset during servicing or repair work by a BMW Motorrad Retailer or another qualified service partner or specialist workshop.

Data input and data transfer in the vehicle

General

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

This includes, for example:

- Settings of the windscreen position
- Chassis and suspension settings

If required, data can be entered in the entertainment and communication system of the vehicle, for example using a smartphone.

Depending on the individual equipment, this includes:

- Multimedia data, such as music for playback
- Contacts data for use in connection with a communication system or an integrated navigation system
- Entered destinations
- Data on the use of internet services. This data can be stored locally in the vehicle or is located on a device that is connected to the vehicle, for example smartphone, USB stick, MP3 player. If this data is

stored in the vehicle, the data can be deleted at any time.

This data is transferred to third parties only if personally requested within the context of using online services. This depends on the selected settings when using the services.

Incorporation of mobile end devices

Depending on the equipment, mobile end devices connected to the vehicle, for example smartphones, can be controlled using the operating elements of the vehicle.

The image and sound of the mobile end device can then be output via the multimedia system. At the same time, specific information is transferred to the mobile end device. Depending on the type of integration, this includes, for example, position data and additional general vehicle information. This enables optimal

use of the selected apps, for example navigation or music playback.

The type of additional data processing is determined by the provider of the respective app. The scope of the possible settings depends on the corresponding app and the operating system of the mobile end device.

Services

General

If the vehicle has a wireless connection, this enables the exchange of data between the vehicle and other systems. The wireless connection is enabled by the vehicle's own transmitter and receiver unit or using personally integrated mobile end devices, for example smartphones. Online functions can be used using this wireless connection. These include online services and apps that are provided by the vehicle

manufacturer or by other providers.

Services of the vehicle manufacturer

For online services of the vehicle manufacturer, the individual functions are described at suitable points, for example rider's manual, website of the manufacturer. At the same time, information is also provided on the relevant data protection law. Personal data may be used to provide online services. Data is exchanged using a secure connection, for example with the IT systems provided by the vehicle manufacturer.

Obtaining, processing and using personal data outside of the normal provision of services requires legal permission, contractual agreement or consent. It is also possible to have the entire data connection activated or de-

activated. Statutory functions are excluded from this.

Services from other providers

When using online services from other providers, these services are subject to the responsibility and the data protection and operating conditions of the individual provider. The vehicle manufacturer has no influence on the content that is exchanged in this instance. Information on the type, scope and purpose of the data capture and use of personal data as part of the services of third parties can be ascertained from the individual provider.

Intelligent emergency call system

- with intelligent emergency call^{OE}

Principle

The intelligent emergency call system enables manual or automatic emergency calls, for example in the event of an accident.

The emergency calls are received by an emergency call centre that is commissioned by the vehicle manufacturer.

For information on operating the intelligent emergency call system and its functions, please refer to "Intelligent emergency call".

Legal basis

Processing of personal data using the intelligent emergency call system is in line with the following regulations:

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

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

The legal basis for the activation and function of the intelligent emergency call system is the concluded ConnectedRide contract for this function, as well as the corresponding laws, ordinances and directives of the European Parliament and of the European Council.

The relevant ordinances and directives regulate the protection of natural persons during the processing of personal data.

The processing of personal data by the intelligent emergency call system satisfies the European directives for the protection of personal data.

The intelligent emergency call system processes personal data

only with the agreement of the vehicle owner.

The intelligent emergency call system and other services with additional benefits may only process personal data with the express permission of the person affected by the data processing, for example the vehicle owner.

SIM card

The intelligent emergency call system is operated by mobile radio using the SIM card installed in the vehicle. The SIM card is permanently logged into the mobile phone network to enable rapid connection setup. Data is sent to the vehicle manufacturer in the event of an emergency.

Improving quality

The data that is transferred in an emergency is also used by the manufacturer of the vehicle

to improve product and service quality.

Location determination

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

Log data of emergency calls

The log data of emergency calls is stored in a memory of the vehicle. The oldest log data is regularly deleted. The log data includes, for example, information on when and where an emergency call was made. In exceptional cases, the log data can be

read out of the vehicle memory. As a rule, log data is only read out following a court order, and this is only possible if the corresponding devices are connected directly to the vehicle.

Automatic emergency call

The system is designed so that, following a sufficiently serious accident, which is detected by sensors in the vehicle, an emergency call is automatically activated.

Sent information

When making an emergency call using the intelligent emergency call system, the system forwards the same information to the designated emergency call centre as is forwarded to the public emergency operations centre by the statutory emergency call system eCall.

In addition, the intelligent emergency call system sends the following additional information to an emergency call centre commissioned by the vehicle manufacturer and, if required, to the emergency services:

- Accident data, for example the direction of impact detected by the vehicle sensors, to assist the emergency services response.
- Contact details, for example the phone number of the installed SIM card and the phone number of the rider, if available, to enable rapid contact with those involved in the accident if required.

Data storage

The data for an activated emergency call is stored in the vehicle. The data contains information on the emergency

call, for example the location and time of the emergency call.

The voice recordings of the emergency call are stored at the emergency call centre.

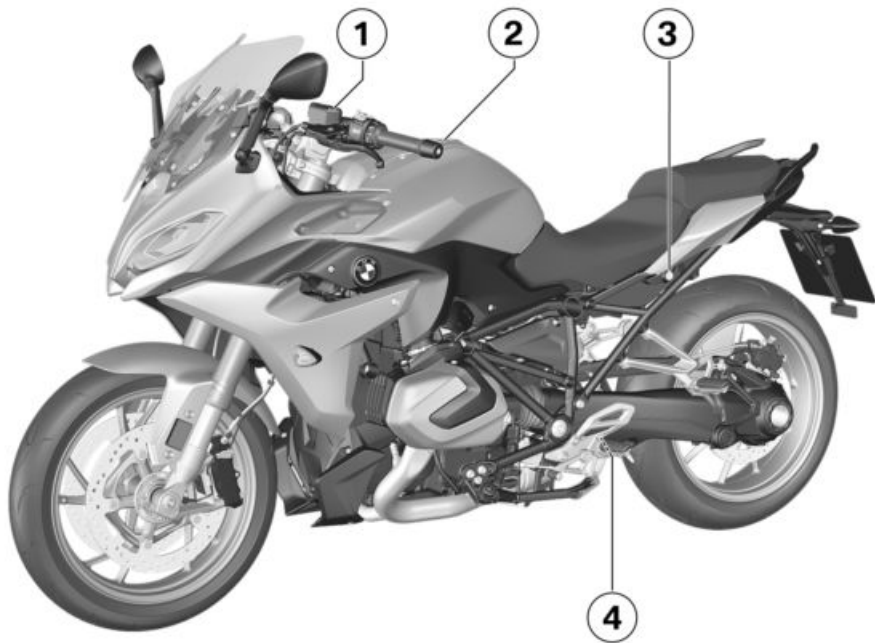
The voice recordings of the customer are stored for 24 hours in case details of the emergency call need to be analysed. After this, the voice recordings are deleted. The voice recordings of the employee of the emergency call centre are stored for 24 hours for quality assurance purposes.

Information on personal data

The data that is processed as part of the intelligent emergency call is processed exclusively to carry out the emergency call. As part of its statutory obligation, the manufacturer of the vehicle provides information about the data that it has processed and any data that it still has stored.

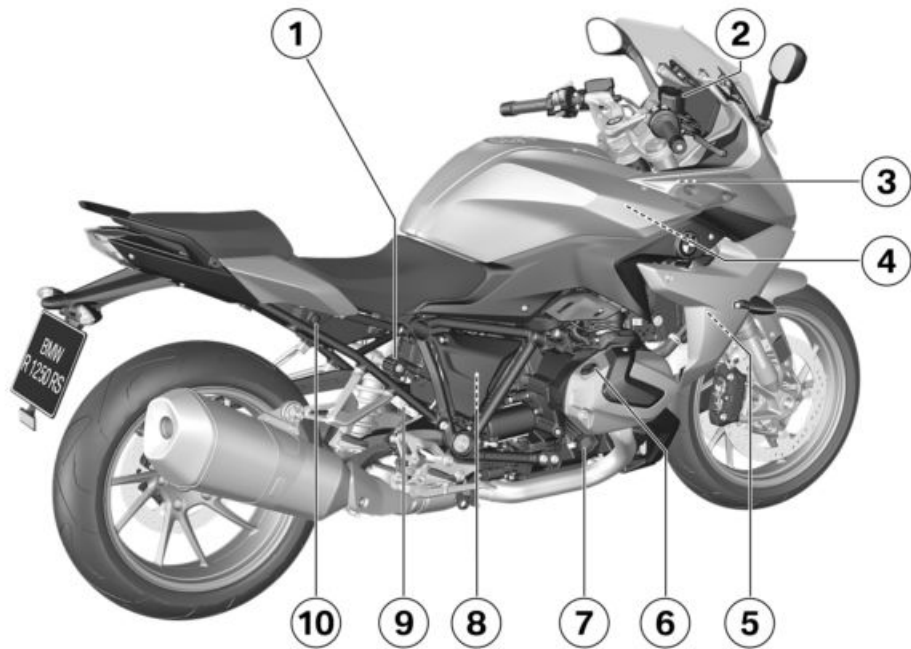
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General view, left side

- 1** Clutch-fluid reservoir
( 177)
- 2** Fuel filler neck ( 145)
- 3** Seat lock ( 98)
- 4** Setting the rear damping
(down at the spring strut)
( 132)

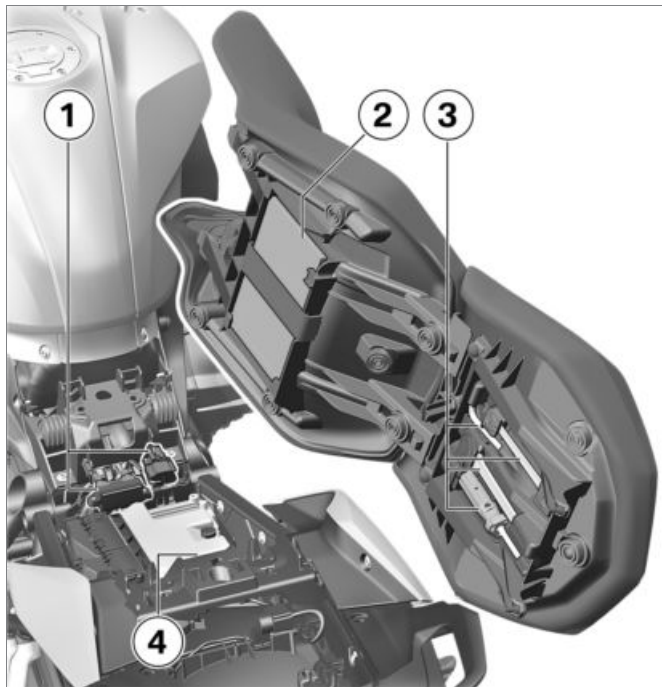


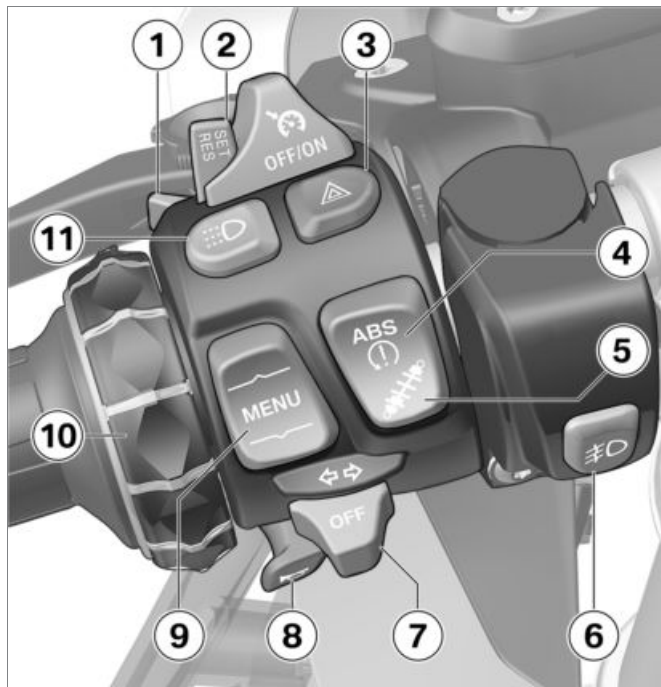
General view, right side

- 1** Adjuster for spring preload, rear (➡ 131)
- 2** Brake-fluid reservoir, front (➡ 175)
- 3** Vehicle identification number (VIN) (on steering head, right)
Type plate (on steering head, left)
- 4** Coolant-level indicator (➡ 177)
Coolant expansion tank (➡ 178)
- 5** Table of tyre pressures
- 6** Oil filler opening (➡ 172)
- 7** Engine oil level indicator (➡ 171)
- 8** Behind the side trim panel:
Battery (➡ 192)
Remote positive terminal (➡ 190)
Diagnostic connector (➡ 197)
- 9** Brake-fluid reservoir, rear (➡ 176)
- 10** Power socket (➡ 200)

Underneath the seat

- 1 Fuses (➡ 196)
- 2 Rider's manual
- 3 Standard toolkit (➡ 168)
- 4 Payload table

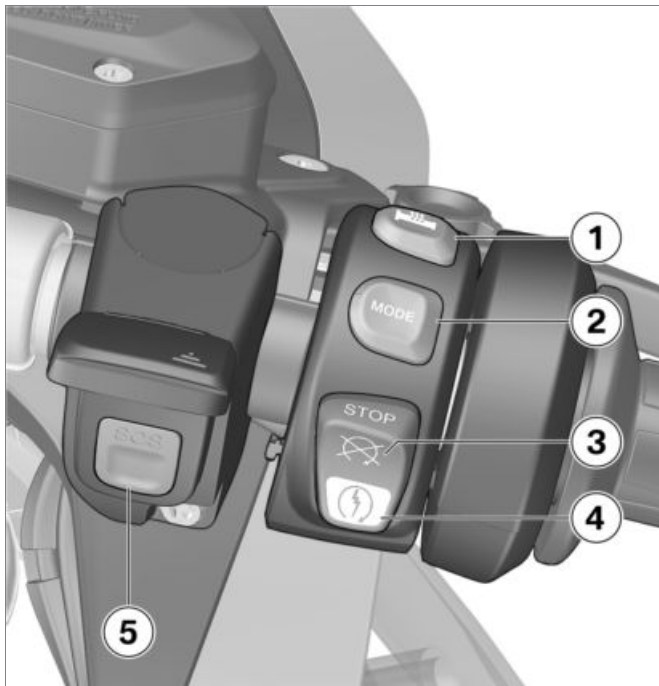




Multifunction switch, left

- 1** High-beam headlight and headlight flasher (➡ 73)
- 2** – with cruise control^{OE}
Cruise-control system (➡ 89).
- 3** Hazard warning lights system (➡ 77)
- 4** ABS (➡ 78)
ASC (➡ 80)
– with riding modes Pro^{OE}
DTC (➡ 82)
- 5** – with Dynamic ESA^{OE}
Dynamic ESA possible settings (➡ 83)
- 6** – with LED additional headlight^{OA}
Additional headlight (➡ 74).
- 7** Turn indicators (➡ 77)
- 8** Horn
- 9** MENU rocker switch (➡ 103)

- 10 Multi-Controller Controls (▮▮▮▮▶ 103)
- 11 – with daytime riding light^{OE}
Manual daytime riding light (▮▮▮▮▶ 75).

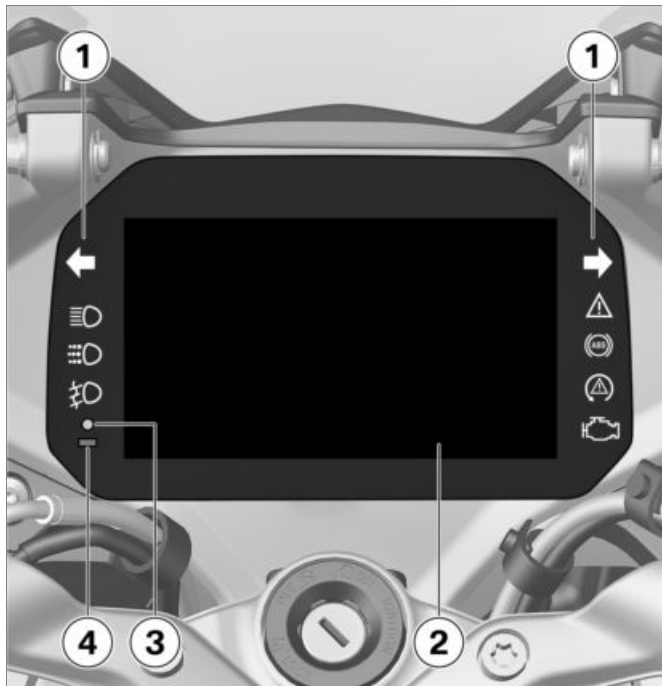


Multifunction switch, right

- 1** – with heated grips^{OE}
Heated handlebar grips (➡ 97).
- 2** Riding mode (➡ 86)
- 3** Emergency off switch (kill switch) (➡ 70)
- 4** Starter button
Starting the engine (➡ 137).
- 5** SOS button
Intelligent emergency call (➡ 71)

Instrument panel

- 1 Indicator and warning lights (➡ 28)
- 2 TFT display (➡ 29) (➡ 31)
- 3 Alarm system LED
– with anti-theft alarm (DWA)^{OE}
Alarm signal (➡ 95)
– with Keyless Ride^{OE}
Indicator light for the radio-operated key
Switching on ignition (➡ 67).
- 4 Photosensor (for adapting the brightness of the instrument lighting)

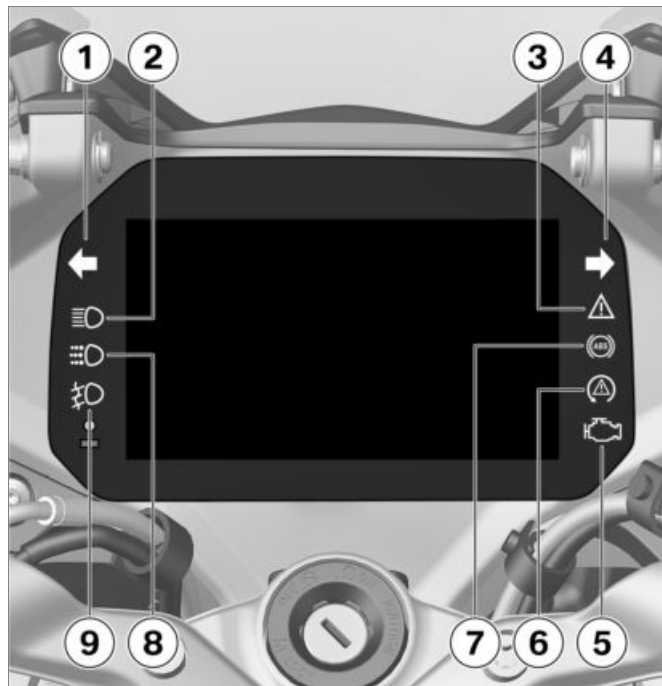


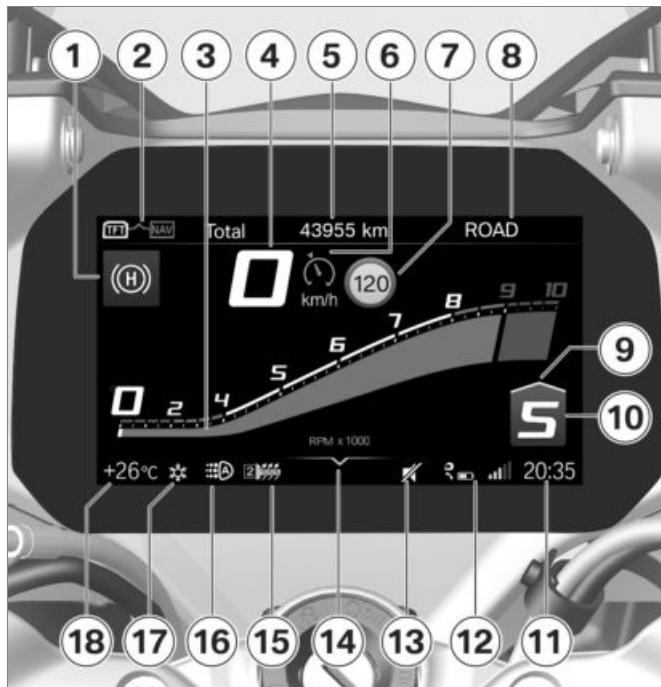
Status indicators

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Indicator and warning lights

- 1 Turn indicators, left
Operating the turn indicators (► 77).
- 2 High-beam (► 73)
- 3 General warning light (► 32)
- 4 Turn indicators, right
- 5 - with export to EU markets^{NV}
Malfunction indicator lamp
- 6 ASC (► 55)
- with riding modes Pro^{OE}
DTC (► 56)
- 7 ABS (► 78)
- 8 - with daytime riding light^{OE}
Manual daytime riding light (► 75).
- 9 - with LED additional headlight^{OA}
Additional headlight (► 74).

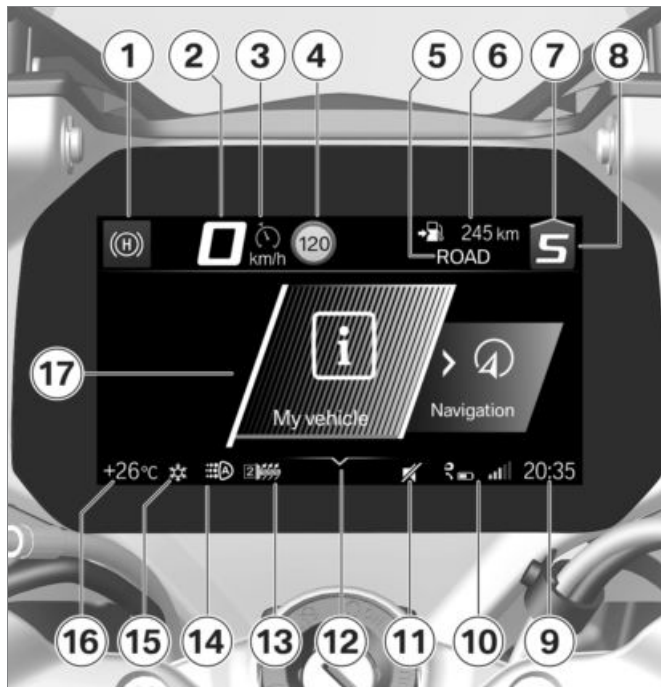




TFT display in Pure Ride view

- 1 Hill Start Control (➡ 59)
- 2 Changing the operating focus (➡ 107)
- 3 Engine speed display (➡ 110)
- 4 Speedometer
- 5 Driver info. status line (➡ 108)
- 6 – with cruise control^{OE}
Cruise-control system (➡ 89).
- 7 Speed Limit Info (➡ 109)
- 8 Riding mode (➡ 86)
- 9 Recommendation to up-shift (➡ 111)
- 10 Gear indicator; "N" indicates neutral.
- 11 Clock (➡ 111)
- 12 Connection status (➡ 114)
- 13 Muting (➡ 111)
- 14 Operator help

- 15** Heating stages, handlebar grips (▮▮▮▮➔ 97)
- 16** Automatic daytime riding light (▮▮▮➔ 76)
- 17** Outside temperature warning (▮▮▮➔ 43)
- 18** Ambient temperature



TFT display in view menu

- 1 Hill Start Control (➡ 59)
- 2 Speedometer
- 3 – with cruise control^{OE}
Cruise-control system (➡ 89).
- 4 Speed Limit Info (➡ 109)
- 5 Riding mode (➡ 86)
- 6 Driver info. status line (➡ 108)
- 7 Recommendation to up-shift (➡ 111)
- 8 Gear indicator; "N" indicates neutral.
- 9 Clock
- 10 Connection status
- 11 Muting (➡ 111)
- 12 Operator help
- 13 Heating stages, handlebar grips (➡ 97)
- 14 Automatic daytime riding light (➡ 76)

- 15** Outside temperature warning (🔌➡ 43)
- 16** Ambient temperature
- 17** Menu section

Warnings

Mode of presentation

Warnings are indicated by the corresponding warning lights. Warnings are shown by the general warning light in connection with a dialogue in the TFT display. The 'general' warning light is yellow or red, depending on the urgency of the warning.



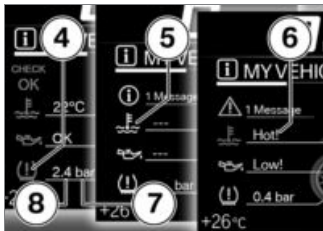
The general warning light is displayed according to the most urgent warning. The possible warnings are listed on the following pages.



Check Control display

The messages shown in the display vary. Different colours and symbols are used depending on priority:

- Green CHECK OK **1**: no message, values optimum.
- White circle with small "i" **2**: information.
- Yellow warning triangle **3**: warning message, value not optimum.
- Red warning triangle **3**: Warning message, value critical



Values display

The symbols **4** displayed vary. Different colours are used depending on assessment. Instead of numerical values **8** with units **7**, texts **6** are displayed:

Colour of the symbol

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

- White: (---) valid value not available. Instead of the value, dashes **5** are displayed.



NOTICE

The assessment of some values is only possible from a certain journey duration or speed. If a measured value is still not being displayed because the conditions for measurement have not been met, dashes are displayed instead as a placeholder. If there are no valid measured values, there will be no assessment in the form of a coloured symbol.◀



Check Control dialogue

Messages are output as a Check Control dialogue **1**.

- If several CC messages with the same priority are present, the messages alternate in the order they occurred until these are acknowledged.
- If the symbol **2** is actively being displayed, it can be acknowledged by holding the Multi-Controller to the left.
- Check Control messages are dynamically attached as additional tabs on the pages in the vehicle menu (105). The message can be called

up again as long as the fault persists.

Warnings, overview

Indicator and warning lights

Display text

Meaning



Ice crystal symbol is displayed.

Outside temperature warning (►► 43)



General warning light shows yellow.



Remote key not in range.

Radio-operated key outside of reception area (►► 43)



General warning light shows yellow.



Remote key battery at 50%.

Replacing battery of remote key (►► 44)



Remote key battery weak.



General warning light shows yellow.



is displayed in yellow.

Vehicle voltage too low (►► 44)



Vehicle voltage low.



General warning light shows red.



is displayed in red.

Vehicle voltage critical (►► 44)



Vehicle voltage critical!

Indicator and warning lights

Display text

Meaning

	General warning light shows yellow.		The faulty light source is displayed.	Light source faulty (→ 45)
			Alarm system battery weak.	Anti-theft alarm battery weak (→ 46)
	General warning light shows yellow.		Alarm system battery empty.	Anti-theft alarm battery flat (→ 46)
			Oil level too low! Check oil level.	Engine-oil level too low (→ 47)
	General warning light shows red.		Coolant temperature too high!	Coolant temperature too high (→ 47)
	General warning light shows yellow.		No communication with engine control.	Engine control failed (→ 48)
	General warning light shows yellow.		Fault in the engine control.	Engine in emergency-operation mode (→ 48)
	General warning light flashes yellow.		Serious fault in the engine control!	Serious fault in the engine control (→ 49)

Indicator and warning lights

Display text

Meaning

	General warning light shows yellow.		is displayed in yellow.	Tyre pressure in limit range of the permitted tolerance (→ 50)
			Tyre pressure is not at set-point.	
	General warning light flashes red.		is displayed in red.	Tyre pressure outside the permitted tolerance (→ 51)
			Tyre pressure is not at set-point.	
			Tyre press. control. Loss of pressure.	
			"---"	Transmission fault (→ 52)
	General warning light shows yellow.		"---"	Sensor faulty or system fault (→ 52)
	General warning light shows yellow.		RDC sensor battery weak.	Battery for tyre pressure sensor weak (→ 53)

Indicator and warning lights	Display text	Meaning
	 Drop sensor faulty.	Drop sensor defective (→ 53)
	 Engine start not possible.	Motorcycle dropped (→ 53)
	 Intell. emerg. call failure.	Emergency call function restricted (→ 53)
	 Side stand monitoring faulty.	Side stand monitoring is faulty (→ 54)
 ABS indicator and warning light flashes.		ABS self-diagnosis not completed (→ 54)
 ABS indicator and warning light comes on.	 Off!	ABS deactivated (→ 54)
	 ABS deactivated.	
 ABS indicator and warning light comes on.	 Limited ABS availability!	ABS fault (→ 54)

Indicator and warning lights

Display text

Meaning

	ABS indicator and warning light comes on.		ABS failure!	ABS failed (→ 55)
	ABS indicator and warning light comes on.		ABS Pro failure!	ABS Pro failed (→ 55)
	ASC indicator and warning light flashes quickly.			ASC intervention (→ 55)
	ASC indicator and warning light flashes slowly.			ASC self-diagnosis not completed (→ 56)
	ASC indicator and warning light comes on.		Off!	ASC switched off (→ 56)
			Traction control deactivated.	
	ASC indicator and warning light comes on.		Traction control failure!	ASC fault (→ 56)

Indicator and warning lights**Display text****Meaning**

DTC indicator and warning light flashes quickly.

DTC intervention (→ 56)



DTC indicator and warning light flashes slowly.

DTC self-diagnosis not completed (→ 57)



DTC indicator and warning light comes on.



Off!

DTC switched off (→ 57)



Traction control deactivated.



DTC indicator and warning light comes on.



Traction control failure!

DTC fault (→ 57)



DTC indicator and warning light comes on.



Traction control limited!

DTC restricted (→ 58)



General warning light shows yellow.



Spring strut adjustment faulty!

D-ESA fault (→ 58)

Indicator and warning lights

Display text

Meaning



Fuel down to reserve. Go to a filling station soon

Fuel down to reserve (▬▬▬ 59)



Green holding symbol is displayed.

Hill Start Control active (▬▬▬ 59)



Yellow holding symbol flashes.

Hill Start Control automatically deactivated (▬▬▬ 59)



Crossed-out holding symbol is displayed.

Hill Start Control cannot be activated (▬▬▬ 59)



The gear indicator flashes.

Gear not trained (▬▬▬ 59)



Turn signal indicator light flashes green.

Hazard warning lights system is switched on (▬▬▬ 60)



Turn signal indicator light flashes green.

Indicator and warning lights**Display text****Meaning**

is displayed in white.

Service due (||||▶ 60)

Service due!



General warning light shows yellow.



is displayed in yellow.

Service-due date has passed (||||▶ 61)

Service over-due!

Ambient temperature

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

When the motorcycle is at a standstill, the heat of the engine can falsify the ambient-temperature reading. If the heat of the engine is affecting it too much, dashes are temporarily shown in place of the value.



If the ambient temperature falls below the following limit value, there is a risk of black ice.



Threshold for ambient temperature

approx. 3 °C

Once the temperature has fallen below that value, the outside temperature display along with a ice crystal symbol flashes in the status line on the TFT display.

Outside temperature warning



Ice crystal symbol is displayed.

Possible cause:



The air temperature measured at the vehicle is lower than:

approx. 3 °C



WARNING

Risk of black ice also applicable at over 3 °C

Risk of accident

- Always take extra care when temperatures are low; remember that there is particular danger of black ice forming on bridges and where the road is in shade.◀
- Ride carefully and think well ahead.

Radio-operated key outside of reception area

– with Keyless Ride^{OE}



General warning light shows yellow.



Remote key not in range. Not possible to switch on ignition again.

Possible cause:

Communication between radio-operated key and engine electronics is disturbed.

- Check battery in the radio-operated key.
- with Keyless Ride^{OE}
- Replacing battery of remote key (▮▮▮ 69).
- Use spare key for rest of journey.
- with Keyless Ride^{OE}
- Loss of the radio-operated key (▮▮▮ 69).

- If the Check Control dialogue appears while riding, keep calm. You can continue riding, the engine will not switch off.
- Have the faulty radio-operated key replaced by an authorised BMW Motorrad Retailer.

Replacing battery of remote key



General warning light shows yellow.



Remote key battery at 50%. No functional impairment.



Remote key battery weak. Limited central locking function. Change battery.

Possible cause:

- The battery of the remote key has lost a significant proportion of its original capacity. The function of the remote key is

only still ensured for a limited time.

- with Keyless Ride^{OE}
- Replacing battery of remote key (►► 69).

Vehicle voltage too low



General warning light shows yellow.



is displayed in yellow.



Vehicle voltage low. Switch off unnecessary consumers.



WARNING

Failure of the vehicle systems

Risk of accident

- Do not continue your journey.◀

The battery will not be charged. By continuing to drive on, the vehicle electronics discharge the battery.



NOTICE

The fuse for the alternator regulator can blow if the 12 V battery is installed incorrectly or if the terminals are swapped (e.g. when using a starting aid).◀

Possible cause:

The alternator or alternator drive is faulty, battery is faulty or the fuse for the alternator regulator has blown.

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Vehicle voltage critical



General warning light shows red.



is displayed in red.

 Vehicle voltage critical! Consumers have been switched off. Check battery condition.

WARNING

Failure of the vehicle systems

Risk of accident

- Do not continue your journey.◀

The battery will not be charged. By continuing to drive on, the vehicle electronics discharge the battery.

NOTICE

The fuse for the alternator regulator can blow if the 12 V battery is installed incorrectly or if the terminals are swapped (e.g. when using a starting aid).◀

Possible cause:

The alternator or alternator drive is faulty, battery is faulty or the fuse for the alternator regulator has blown.

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Light source faulty

 General warning light shows yellow.

 The faulty light source is displayed:

 High beam faulty!

 Front left turn indicator faulty! or
Front right turn indicator faulty!

 Low-beam headlight faulty!

 Front side light faulty!

– with daytime riding light^{OE}

 Daytime riding light faulty!◀

– with LED additional headlight^{OA}

 Left additional headlight faulty! or Right additional headlight faulty!◀

 Tail light faulty!

 Brake light faulty!

 Rear left turn indicator faulty! or
Rear right turn indicator faulty!



Number plate light faulty!

- Have it checked by a specialist workshop.



WARNING

Vehicle overlooked in traffic due to failure of the lights on the vehicle

Safety risk

- Replace defective bulbs as soon as possible; always carry a complete set of spare bulbs if possible. ◀

Possible cause:

One or more light sources are faulty.

- Identify the faulty light source through a visual inspection.
- Replacing the LED headlight (▮▮▮▮ 190).
- Replacing bulbs for front and rear turn indicators (▮▮▮▮ 188).

- Replacing LED rear light (▮▮▮▮ 190).
- with LED flashing turn indicator^{OE}
- Replacing LED turn indicators (▮▮▮▮ 190).

Anti-theft alarm battery weak

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



Alarm system battery weak. No restrictions. Make an appointment at a specialist workshop.



NOTICE

This error message shows briefly only after the Pre-Ride-Check completes. ◀

Possible cause:

The integral battery in the anti-theft alarm has lost a significant proportion of its original capacity. There is no assurance of how long the anti-theft alarm can remain operational if the vehicle's battery is disconnected.

- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Anti-theft alarm battery flat

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



General warning light shows yellow.



Alarm system battery empty. No independent alarm. Make an appointment at a specialist workshop.



NOTICE

This error message shows briefly only after the Pre-Ride-Check completes. ◀

Possible cause:

The integral battery in the anti-theft alarm has lost its entire original capacity. There is no assurance that the anti-theft alarm will be operational if the vehicle's battery is disconnected.

- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Electronic oil-level check



The electronic oil-level check assesses the oil level in the engine with OK or Low!

The preconditions for the electronic oil-level check are as follows:

- Engine at operating temperature.
- Engine idling for at least ten seconds.
- Side stand folded in.
- No brake applied.
- Motorcycle standing upright on a smooth, level surface.

If these conditions are not met, it is not possible to measure the oil level. Dashes will appear on the display instead of a reading.

Engine-oil level too low



Oil level too low!
Check oil level.

Possible cause:

The electronic oil-level sensor has registered an excessively low oil level. The next time you stop for fuel:

- Checking engine oil level (► 171).

If the oil level is too low:

- Topping up the engine oil (► 172).

If the oil level is correct:

- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad dealer.

Coolant temperature too high



General warning light shows red.



Coolant temperature too high! Check coolant level. Continue under part. load to cool down.



ATTENTION

Riding with overheated engine

Engine damage

- Compliance with the information set out below is essential. ◀

Possible cause:

The coolant level is too low.

- Check coolant level (177).

If the coolant level is too low:

- Allow the engine to cool down.
- Top up coolant (178).
- Have the cooling system checked by a specialist workshop, preferably by a BMW Motorrad partner.

Possible cause:

The coolant temperature is too high.

- If possible, ride in the part-load range to cool down the engine.

If the coolant temperature is frequently too high:

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Engine control failed



General warning light shows yellow.



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

Engine in emergency-operation mode



General warning light shows yellow.



Fault in the engine control. Riding at mod. speed pos. Ride carefully to next specialist workshop.



WARNING

Unusual ride characteristics when engine running in emergency-operation mode

Risk of accident

- Avoid accelerating sharply and overtaking.◀

Possible cause:

The engine control unit has diagnosed a fault which impairs the engine performance or throttle response. The engine is in emergency-operation mode. In exceptional cases, the engine stops and refuses to start.

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.
- » It is possible to continue riding, however the engine performance and engine speed range may be impaired and not function as normal.

Serious fault in the engine control



General warning light flashes yellow.



Serious fault in the engine control!

Riding at mod. speed pos.
Damage possible. Have checked by workshop.



WARNING

Engine damage when running in emergency-operation mode

Risk of accident

- Ride slowly, avoid accelerating sharply and overtaking.
- If possible, have the vehicle picked up and have the fault rectified by a specialist workshop, preferably an authorised BMW Motorrad Retailer. ◀

Possible cause:

The engine control unit has diagnosed a fault which may cause severe secondary faults. The engine is in emergency-operation mode.

- It is possible to continue to ride but not recommended.
- Avoid high load and rpm ranges if possible.
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Tyre pressure

– with tyre pressure control (RDC)^{OE}

In addition to the MY VEHICLE menu screen and the Check Control messages, there is also the TYRE PRESSURE screen for the display of the tyre pressures:



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

The pressure difference is displayed via the actual and target tyre pressure.

Only dashes are displayed immediately after the ignition is switched on. The transmission of the tyre pressure values begins only after the first time the following minimum speed has been exceeded:



RDC sensor is not active

min 30 km/h (The RDC sensor does not transmit its signal to the vehicle until a certain minimum speed has been reached.)



The tyre pressures are shown in the TFT display as temperature compensated and always refer to the following tyre air temperature:

20 °C



If the tyre symbol is additionally displayed in yellow or red, this is a warning. The pressure difference is highlighted with an exclamation point in the same colour.



If the value in question is close to the limit of the permissible tolerance range, the 'General' warning light also lights up in yellow.



If the tyre pressure registered by the sensor is outside the permissible tolerance range, the 'General' warning light flashes red.

For further information about the BMW Motorrad RDC, see the section entitled "Engineering details" from page (161) onwards.

Tyre pressure in limit range of the permitted tolerance

– with tyre pressure control (RDC)^{OE}



General warning light shows yellow.



is displayed in yellow.



Tyre pressure is not at setpoint. Check tyre pressure.

Possible cause:

Measured tyre pressure is close to the limit of permitted tolerance.

- Correct tyre pressure.
- Before adjusting the tyre pressure, observe the information on temperature compensation and pressure adaptation in the section entitled "Engineering details":

- » Temperature compensation (161)
- » Pressure adaptation (162)
- » Find the correct tyre pressures in the following places:

- On the back cover of the rider's manual
- Instrument cluster in the **TYRE PRESSURE** view
- Sign under the seat

Tyre pressure outside the permitted tolerance

- with tyre pressure control (RDC)^{OE}



General warning light flashes red.



is displayed in red.



Tyre pressure is not at setpoint. Stop immediately! Check tyre pressure.



Tyre press. control. Loss of pressure. Stop immediately! Check tyre pressure.



WARNING

Tyre pressure outside the permitted tolerance.

Risk of accident, degradation of the vehicle's driving characteristics.

- Adapt your style of riding accordingly. ◀

Possible cause:

Measured tyre pressure is outside permitted tolerance.

- Check the tyre for damage and to ascertain whether the vehicle can be ridden with the tyre in its present condition.

If the vehicle can be ridden with the tyre in its present condition:

- Correct the tyre pressure at the earliest possible opportunity.
- Before adjusting the tyre pressure, observe the information on temperature compensation and pressure adaptation in the

section entitled "Engineering details":

- » Temperature compensation (161)
- » Pressure adaptation (162)
- » Find the correct tyre pressures in the following places:
 - On the back cover of the rider's manual
 - Instrument cluster in the **TYRE PRESSURE** view
 - Sign under the seat
- Have the tyre checked for damage by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

If you are unsure whether the vehicle can be ridden with the tyre in its present condition:

- Do not continue your journey.
- Notify the breakdown service.

Transmission fault

- with tyre pressure control (RDC)^{OE}



"---"

Possible cause:

The vehicle has not reached the minimum speed (→ 161).



RDC sensor is not active

min 30 km/h (The RDC sensor does not transmit its signal to the vehicle until a certain minimum speed has been reached.)

- Observe the RDC display at higher speeds.



A permanent fault is present only when the general warning light also lights up.

Under these circumstances:

- Have the fault rectified by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Possible cause:

The radio link to the RDC sensors is faulty. Radio systems are located in the surrounding area which are interfering with the transmission between the RDC control unit and the sensors.

- Observe the RDC displays in other surrounding areas.



A permanent fault is present only when the general warning light also lights up.

Under these circumstances:

- Have the fault rectified by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Sensor faulty or system fault

- with tyre pressure control (RDC)^{OE}



General warning light shows yellow.



"---"

Possible cause:

Wheels not equipped with RDC sensors have been fitted.

- Fit wheels and tyres equipped with RDC sensors.

Possible cause:

One or two RDC sensors have failed or there is a system fault.

- Have the fault rectified by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Battery for tyre pressure sensor weak

- with tyre pressure control (RDC)^{OE}



General warning light shows yellow.



RDC sensor battery weak. Function limited. Have it checked by a specialist workshop.



NOTICE

This error message shows briefly only after the Pre-Ride-Check completes. ◀

Possible cause:

The tyre pressure sensor battery no longer provides its full capacity. The tyre pressure monitoring function will be available for a limit time only.

- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Drop sensor defective



Drop sensor faulty. Have it checked by a specialist workshop.

Possible cause:

The drop sensor is not available.

- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Motorcycle dropped



Engine start not possible. Straighten up motorbike. Switch ignition off/on. Start engine.

Possible cause:

The drop sensor has detected a drop and has cut out the engine.

- Bring the motorcycle to the upright position.

- Switch the ignition off and then on again or switch the kill switch on and then off again.

Emergency call function restricted

- with intelligent emergency call^{OE}



Intell. emerg. call failure.

Possible cause:

The emergency call cannot be made automatically or via BMW.

- Observe the information on operating the intelligent emergency call from page (📖 71) onwards.
- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Side stand monitoring is faulty



Side stand monitoring faulty. Onward journey possible. Engine stop. when stationary! Have checked by workshop.

Possible cause:

The side-stand switch or its wiring are damaged.

- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad Retailer.

ABS self-diagnosis not completed



ABS indicator and warning light flashes.

Possible cause:



ABS self-diagnosis not completed

The ABS function is not available, because self-diagnosis did not complete. (The motor-cycle has to reach a defined minimum speed for the wheel speed sensors to be checked: 5 km/h)

- Pull away slowly. Bear in mind that the ABS function is not available until self-diagnosis has completed.

ABS deactivated



ABS indicator and warning light comes on.



Off!



ABS deactivated.

Possible cause:

The rider has switched off the ABS system.

- Activating the ABS function (→ 79).

ABS fault



ABS indicator and warning light comes on.



Limited ABS availability! Riding at mod. speed pos. Ride carefully to next specialist workshop.

Possible cause:

The ABS control unit has detected a fault. The partially integral function and the Dynamic Brake Control function have failed. The ABS function has limited availability.

- You can continue to ride. Take note of the more detailed information on certain situations

that can lead to an ABS fault message (➡ 153).

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

ABS failed



ABS indicator and warning light comes on.



ABS failure! Riding at mod. speed pos. Ride carefully to next specialist workshop.

Possible cause:

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

- You can continue to ride. Take note of the more detailed information on certain situations that can lead to an ABS fault message (➡ 153).

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

ABS Pro failed

– with riding modes Pro^{OE}



ABS indicator and warning light comes on.



ABS Pro failure! Riding at mod. speed pos. Ride carefully to next specialist workshop.

Possible cause:

The ABS Pro control unit has detected a fault. The ABS Pro function is not available. The ABS function is still available. ABS provides support only for braking in straight-ahead driving.

- You can continue to ride. Take note of the more detailed information on certain situations

that can lead to an ABS Pro fault message (➡ 153).

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

ASC intervention

– without riding modes Pro^{OE}



ASC indicator and warning light flashes quickly.

The ASC has detected a degree of instability at the rear wheel and has intervened to reduce torque. The indicator and warning light flashes longer than the ASC intervention lasts. This affords the rider visual feedback on control intervention even after the critical situation has been dealt with.

ASC self-diagnosis not completed

– without riding modes Pro^{OE}



ASC indicator and warning light flashes slowly.

Possible cause:



ASC/DTC self-diagnosis not completed

The ASC/DTC function is not available, because self-diagnosis did not complete. (The motorcycle has to reach a defined minimum speed for the wheel speed sensors to be checked: 5 km/h)

- Pull away slowly. The ASC indicator and warning light goes out after a few minutes.

The ASC indicator and warning light continues to flash:

- Seek the advice of a specialist workshop, preferably an authorised BMW Motorrad dealer.

ASC switched off

– without riding modes Pro^{OE}



ASC indicator and warning light comes on.



Off!



Traction control deactivated.

Possible cause:

The rider has switched off the ASC system.

- without riding modes Pro^{OE}
- Activating the ASC function (→ 81).

ASC fault

– without riding modes Pro^{OE}



ASC indicator and warning light comes on.



Traction control failure! Riding at mod. speed pos.

Ride carefully to next specialist workshop.

Possible cause:

The ASC control unit has detected a fault. The ASC function is no longer available.

- You can continue to ride. Bear in mind that the ASC function is not available. Take note of the more detailed information on situations that can lead to an ASC fault (→ 156).
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

DTC intervention

– with riding modes Pro^{OE}



DTC indicator and warning light flashes quickly.

The DTC has detected a degree of instability at the rear wheel and has intervened to reduce

torque. The indicator and warning light flashes longer than the DTC intervention lasts. This affords the rider visual feedback on control intervention even after the critical situation has been dealt with.

DTC self-diagnosis not completed

– with riding modes Pro^{OE}



DTC indicator and warning light flashes slowly.

Possible cause:



DTC+ self-diagnosis not completed

The DTC+ function is not available, because self-diagnosis did not complete. (The motorcycle has to reach a defined minimum speed for the wheel sensors to be checked: min 5 km/h)

- Pull away slowly. Bear in mind that the DTC function is not available until self-diagnosis has completed.

DTC switched off

– with riding modes Pro^{OE}



DTC indicator and warning light comes on.



Off!



Traction control deactivated.

Possible cause:

The rider has switched off the DTC system.

- Switch on DTC (▮▮▮ 82).

DTC fault

– with riding modes Pro^{OE}



DTC indicator and warning light comes on.



Traction control failure! Riding at mod. speed pos. Ride carefully to next specialist workshop.

Possible cause:

The DTC control unit has detected a fault.



ATTENTION

Damaged components

Damage to sensors, for example, which causes malfunctions

- Do not transport any objects underneath the driver or passenger seat.
- Secure the toolkit.◀
- Do not damage the angular rate sensor.
- Bear in mind that the DTC function is not available or the functionality is subject to certain restrictions.
- You can continue to ride. Take note of the more detailed in-

formation on situations that can lead to a DTC fault (156).

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

DTC restricted

– with riding modes Pro^{OE}



DTC indicator and warning light comes on.



Traction control limited! Riding at mod. speed pos. Ride carefully to next specialist workshop.

Possible cause:

The DTC control unit has detected a fault.



ATTENTION

Damaged components

Damage to sensors, for example, which causes malfunctions

- Do not transport any objects underneath the driver or passenger seat.
- Secure the toolkit.◀
- Do not damage the angular rate sensor.
- Bear in mind that the DTC function is restricted.
- You can continue to ride. Take note of the more detailed information on situations that can lead to a DTC fault (156).
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

D-ESA fault

– with Dynamic ESA^{OE}



General warning light shows yellow.



Spring strut adjustment faulty! Riding at mod. speed pos. Ride carefully to next specialist workshop.

Possible cause:

The D-ESA control unit has detected a fault. The damping and/or spring adjuster may be the cause. In Auto the cause may also be a fault in the riding position equaliser. In this condition, the motorcycle may have too much damping and is uncomfortable to drive, especially on roads in poor condition. Alternatively, the spring setting may be set incorrectly.

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Fuel down to reserve



Fuel down to reserve. Go to a filling station soon.



WARNING

Irregular engine operation or engine shutdown due to lack of fuel

Risk of accident, damage to catalytic converter

- Do not run the fuel tank dry.◀

Possible cause:

The fuel tank contains no more than the reserve quantity of fuel.



Fuel reserve

approx. 4 l

- Refuelling (➡ 145).

Hill Start Control active



Green holding symbol is displayed.

Possible cause:

The driver has activated Hill Start Control (➡ 164).

- Switch off Hill Start Control.
- Operate Hill Start Control (➡ 91).

Hill Start Control automatically deactivated



Yellow holding symbol flashes.

Possible cause:

Hill Start Control has been automatically deactivated.

- Side stand has been folded out.
 - » Hill Start Control is deactivated when the side stand is folded out.
- Engine has been switched off.
 - » Hill Start Control is deactivated when the engine is switched off.
- Operate Hill Start Control (➡ 91).

Hill Start Control cannot be activated



Crossed-out holding symbol is displayed.

Possible cause:

Hill Start Control cannot be activated.

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

Gear not trained

– with shift assistant Pro^{OE}



The gear indicator flashes.
The Pro shift assistant is not available.

Possible cause:

- with shift assistant Pro^{OE}

The gearbox sensor is not fully trained.

- Engage neutral gear N and, with the vehicle at a standstill, let the engine run for at least 10 seconds to train the idle gear.
- Engage all gears with clutch actuation and ride at least 10 seconds with the engaged gear.
- » The gear indicator starts to flash when the gearbox sensor has been trained successfully.
- Shift assistant Pro will operate as described (➡ 162) once the transmission sensor has been completely taught-in.
- If the training process was not successful, have the fault rectified by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Hazard warning lights system is switched on



Turn signal indicator light flashes green.



Turn signal indicator light flashes green.

Possible cause:

The driver has switched on the hazard warning lights system.

- Operating hazard warning flashers (➡ 77).

Service-due indicator



If service is overdue, the due date or the odometer reading at which service was due is accompanied by the 'General' warning light showing yellow.

If the service is overdue, a yellow CC message is displayed. Exclamation marks also draw attention to the displays for service, service appointment and remaining distance in the MY VEHICLE

and SERVICE REQUIREMENTS menu screens.



NOTICE

If the service-due indicator appears more than a month before the service date, the current date has to be corrected. This situation can occur if the battery was disconnected.◀

Service due



is displayed in white.

Service due! Have service performed by a specialist workshop.

Possible cause:

Service is due because of the driving performance or the date.

- Have your motorcycle serviced regularly by a specialist workshop, preferably by an authorised BMW Motorrad Retailer.

- » The operational and road safety of the motorcycle remain intact.
- » The motorcycle's value is maintained as best as possible.

- » The operational and road safety of the motorcycle remain intact.
- » The motorcycle's value is maintained as best as possible.

Service-due date has passed



General warning light shows yellow.



is displayed in yellow.

Service overdue! Have service performed by a specialist workshop.

Possible cause:

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

- Have your motorcycle serviced regularly by a specialist workshop, preferably by an authorised BMW Motorrad Retailer.

Operation

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Ignition switch/steering lock

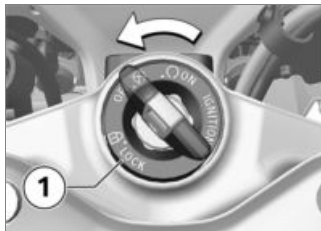
Keys

You receive 2 ignition keys. Please consult the information on the electronic immobiliser (EWS) if a key is lost or mislaid (► 65). Ignition switch/steering lock, fuel filler cap lock and seat lock are all operated with the same key.

If you wish you can arrange to have the cases and the top-case fitted with locks that can be opened with the ignition key as well. Consult a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Lock the handlebars

- Turn the handlebars all the way to left.



- Turn the key to position **1** while moving the handlebars slightly.
 - » Ignition, lights and all function circuits switched off.
 - » Handlebars are locked.
 - » Key can be removed.

Switching on ignition



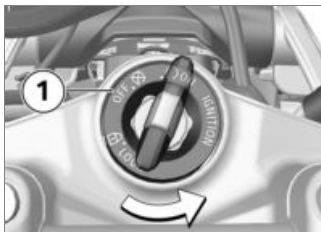
- Insert the vehicle key into the ignition switch and turn it to position **1**.
 - » Side lights and all function circuits are switched on.
 - with daytime riding light^{OE}
 - » When the ignition is switched on the daytime riding light comes on briefly (welcome light).◁
 - with LED additional headlight^{OA}
 - » LED auxiliary headlights are switched on.◁

- » Pre-Ride-Check is performed. (➡ 137)
- » ABS self-diagnosis is in progress. (➡ 138)
- » ASC/DTC self-diagnosis is in progress. (➡ 139)

Welcome lights

- with daytime riding light^{OE}
 - Switch on the ignition.
 - » The side lights briefly light up.
 - » The daytime riding lights briefly light up.
- with LED additional headlight^{OA}
 - » The LED auxiliary headlights briefly light up.◀

Switching off ignition



- Turn the ignition key to position **1**.
 - » When the ignition is switched off, the instrument cluster remains switched on for a short time and displays any existing fault messages.
 - » Handlebars not locked.
 - » Electrically powered accessories remain operational for a limited period of time.
 - » The battery can be recharged via the socket.
 - » Key can be removed.

- with daytime riding light^{OE}
 - The daytime riding light goes out soon after the ignition is switched off.◀
- with LED additional headlight^{OA}
 - The LED auxiliary headlights go out soon after the ignition is switched off.◀

Electronic immobiliser EWS

The electronic design of the motorcycle allows it to access data stored in the ignition key by means of a ring antenna located in the ignition switch/steering lock. The engine control unit will not permit the engine to be started unless the key is identified as “authorised”.



NOTICE

A spare 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.

Always keep the spare key separately from the ignition key. ◀

If you lose your key, you can have it barred by your authorised BMW Motorrad dealer. If you wish to do this, you will need to bring all other keys for the motorcycle with you. The engine cannot be started by a barred key, but a key that has been barred can subsequently be reactivated.

You can obtain emergency/extra keys only through an authorised BMW Motorrad dealer. The keys are part of an integrated security system, so the dealer is under an obligation to check the legitimacy of all applications for replacement/extra keys.

Ignition with Keyless Ride

– with Keyless Ride^{OE}

Keys



NOTICE

The telltale light for the radio-operated key flashes while the search for the radio-operated key is in progress.

The telltale light goes out as soon as the radio-operated key or the emergency key is found. The telltale light goes out briefly if the search times out without the radio-operated key or the emergency key being found. ◀

You receive one radio-operated key and one emergency key. Please consult the information on the electronic immobiliser (EWS) if a key is lost or mislaid (▶ 65). Ignition, fuel filler cap and anti-theft alarm system all work with

the radio-operated key. Seat lock, topcase and cases can be locked and unlocked manually.



NOTICE

The vehicle cannot be started if the radio control key is not within range (e.g. key inside one of the cases or the topcase).

If the radio-operated key remains out of range the ignition is switched off after about 1.5 minutes to protect the battery. It is advisable to keep the radio-operated key closely on your person (e.g. in a jacket pocket) and to have the emergency key with you as an alternative. ◀



Range of the Keyless Ride radio-operated key

– with Keyless Ride^{OE}

approx. 1 m ◀

Locking the steering lock Requirement

Handlebars are turned to the left. Radio-operated key is within range.



- Press and hold down button **1**.
 - » The steering lock engages with an audible click.
 - » Ignition, lights and all function circuits switched off.
- To unlock the steering lock, briefly press button **1**.

Switching on ignition Requirement

Radio-operated key is within range.



- The steering lock can be unlocked once the ignition is switched on.

Steering lock is engaged:

- Press and hold down button **1**.
 - » The steering lock disengages.
 - » Side lights and all function circuits are switched on.
- with daytime riding light^{OE}
 - » Daytime riding light is switched on.<

- with LED additional headlight^{OA}
 - » LED auxiliary headlights are switched on.<
 - » Pre-Ride-Check is performed. (137)
 - » ABS self-diagnosis is in progress. (138)
 - » ASC/DTC self-diagnosis is in progress. (139)

The steering lock is disengaged:

- Briefly press button **1**.
 - » Side lights and all function circuits are switched on.
- with daytime riding light^{OE}
 - » Daytime riding light is switched on.<
- with LED additional headlight^{OA}
 - » LED auxiliary headlights are switched on.<
 - » Pre-Ride-Check is performed. (137)

- » ABS self-diagnosis is in progress. (► 138)
- » ASC/DTC self-diagnosis is in progress. (► 139)

Switching off ignition Requirement

Radio-operated key is within range.



- The steering lock can be locked once the ignition is switched off.

To switch off the ignition and engage the steering lock:

- Turn the handlebars all the way to left.

- Press and hold down button **1**.
- » Light is switched off.
- » The steering lock engages.

To switch off the ignition and do not engage the steering lock:

- Briefly press button **1**.
- » Light is switched off.
- » The steering lock does not engage.
- Locking the steering lock (► 67).

Electronic immobiliser EWS

The on-board electronics access the data saved in the radio-operated key via a ring aerial. The ignition is not enabled for starting until the engine control unit has recognised the radio-operated key as "authorised" for your motorcycle.



NOTICE

A spare key attached to the same ring as the radio-operated key used to start the engine could 'irritate' the electronics, in which case the enabling signal for starting is not issued. Always keep the spare key separate from the radio-operated key. ◀

If you mislay a radio-operated key you can have the key in question barred by your authorised BMW Motorrad dealer. In order to have a key barred you must bring along all the other keys belonging to the motorcycle. The engine cannot be started by a barred radio-operated key, but a radio-operated key that has been barred can subsequently be reactivated.

You can obtain emergency/extra keys only through an author-

ised BMW Motorrad dealer. The radio-operated keys are part of an integrated security system, so the dealer is under an obligation to check the legitimacy of all applications for replacement/extra keys.

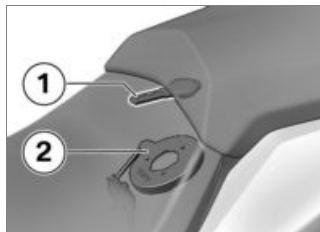
Loss of the radio-operated key



NOTICE

Note the information on the electronic immobiliser (EWS) if a key is lost or mislaid.

If you happen to loose the radio-operated key during the journey, you can start the vehicle using the emergency key.◀



- Insert emergency key **1** into the slot between front seat and rear seat, in such a way that the emergency key is positioned above aerial **2**.



Time during which the engine has to be started. The unlocking procedure has to be repeated if this time is allowed to expire.

30 s

- » Pre-Ride-Check is performed.
- Emergency key has been recognised.
- Engine can be started.

- Emergency key can be removed.
- Starting the engine (➡ 137).

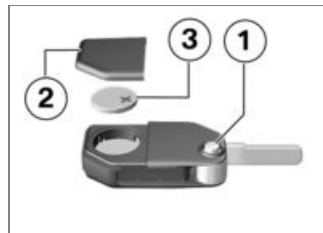
Replacing battery of remote key

If the radio-operated key does not react to a short or long key-stroke:

- Battery of the radio-operated key is not at full capacity.



Remote key battery weak. Limited central locking function. Change battery.



- Press button **1**.

- » Key bit folds out.
- Push battery cover **2** up.
- Remove battery **3**.
- Dispose of the used battery in line with statutory requirements, do not dispose of the battery in household waste.



ATTENTION

Unsuitable or incorrectly inserted batteries

Component damage

- Use a battery compliant with the manufacturer's specifications.
- When inserting the battery, always make sure polarity is correct. ◀
- Insert new battery with the positive terminal to the top.



Battery type

For Keyless Ride radio-operated key



Battery type

CR 2032

- Install battery cover **2**.
- » Red LED in the instrument cluster flashes.
- » The radio-operated key is now operational again.

Emergency off switch (kill switch)



- 1** Emergency off switch (kill switch)



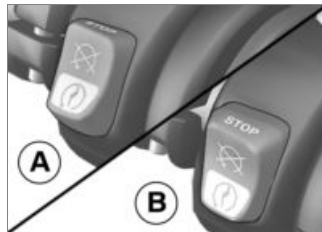
WARNING

Operation of the kill switch while riding

Risk of fall due to rear wheel locking

- Do not operate the kill switch when riding. ◀

The emergency off switch is a kill switch for switching off the engine quickly and easily.



- A** Engine switched off
- B** Normal operating position (run)

Intelligent emergency call

- with intelligent emergency call^{OE}

Emergency call via BMW

Press the SOS button in an emergency only.

Even if an emergency call using BMW is not possible, the system may make an emergency call to a public emergency call number. This depends on the respective mobile phone network and the national regulations.

The emergency call is not able to be ensured because of technical reasons due to unfavourable conditions, e.g. in areas where there is no mobile phone reception.

Language for emergency call

Each vehicle has a language assigned to it depending on the market for which it is intended. The BMW Call Center answers in this language.



NOTICE

The language for the emergency call can only be changed by the BMW Motorrad partner. The language assigned to the vehicle differs from the display languages that can be selected by the rider in the TFT display. ◀

Manual emergency call Requirement

An emergency call has occurred. The vehicle is at a standstill. The ignition is switched on.

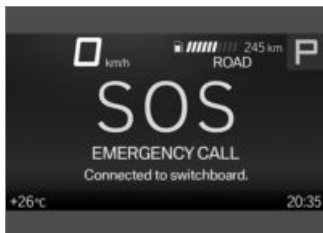


- Open cover **1**.
- Briefly press SOS button **2**.



The time until transmission of an emergency call is displayed. During that time, it is possible to cancel the emergency call.

- Operate the emergency-off switch to stop the engine.
- Remove helmet.
- » After expiry of the timer, a voice contact to the BMW Call Center is established.



The connection was established.



- Provide information to the emergency services using the microphone **3** and speaker **4**.

Automatic emergency call

The intelligent emergency call is active after the ignition is switched on and reacts if a fall or crash occurs.

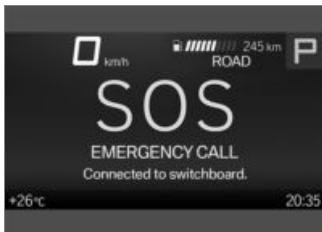
Emergency call in the event of a light fall

- A minor fall or a crash is detected.
- » An acoustic signal is sounded.



The time until transmission of an emergency call is displayed. During that time, it is possible to cancel the emergency call.

- If possible, remove helmet and stop engine.
- » A voice contact connection to the BMW Call Center is established.



The connection was established.

Emergency call in the event of a severe fall

- A severe fall or a crash is detected.
- » The emergency call is placed automatically without delay.

Lights

Low-beam headlight and sidelights

The side lights switch on automatically when the ignition is switched on.



NOTICE

The side lights place a strain on the battery. Do not switch the ignition on for longer than absolutely necessary. ◀

The low-beam headlight switches on automatically when the engine is started.

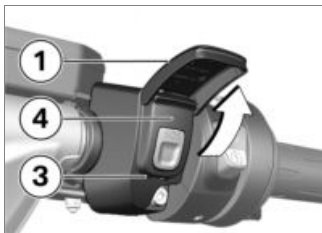
– with daytime riding light^{OE}
In daytime the daytime riding light can be switched on as an alternative to the low-beam headlight.

High-beam headlight and headlight flasher

- Switching on ignition (▶▶ 64).



- Push switch **1** forward to switch on the high-beam headlight.
- Pull switch **1** back to operate the headlight flasher.



- Open cover **1**.
- Provide information to the emergency services using the microphone **3** and speaker **4**.

Headlight courtesy delay feature

- Switch off the ignition.



- Immediately after switching off the ignition, pull switch **1** back and hold it in that position until the headlight courtesy delay feature comes on.
 - » The vehicle lighting lights for one minute and is automatically switched back off.
 - This can be used after parking the vehicle, for example, to light the way to the house door.

Parking lights

- Switching off ignition (➡ 65).



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

Additional headlight

- with LED additional headlight^{OA}

Requirement

The additional headlights are active only when the low-beam headlight is active.



NOTICE

The auxiliary headlights have approval as fog lights and their use is permissible in bad weather conditions only. Always comply with the road traffic regulations in force in the country in which the vehicle is used.◀

- Starting the engine (➡ 137).



- Press button **1** to switch on the additional headlights.

 The indicator light for the auxiliary headlight illuminates.

- Press button **1** again to switch off the additional headlights.

Day run lights

– with daytime riding light^{OE}

Manual daytime riding light

Requirement

Automatic daytime riding light is switched off.

WARNING

Switching on the daytime riding light in the dark.

Risk of accident

- Do not use the daytime riding light in the dark.◀

NOTICE

By comparison with the low-beam headlight, the daytime running light makes the vehicle more visible to oncoming traffic. This improves daytime visibility.◀

- Starting the engine (➡ 137).
- In the Settings, Vehicle settings, Lights menu,

switch off the Auto. dayt. rid. light function.



- Press button **1** to switch on the daytime riding light.

 The indicator light for the daytime riding light lights up.

- » The low-beam headlight and the front side lights are switched off.
- In the dark or in tunnels: Press button **1** again to switch off the daytime riding light and switch on the low-beam headlight and front side light.

**NOTICE**

If the high-beam headlight is switched on while the daytime riding light is on, the daytime riding light is switched off after approx. 2 seconds and the high-beam headlight, low-beam headlight and front side light are switched on.

If the high beam headlight is switched off again, the daytime running light is not automatically reactivated, but must be switched on again if required.◀

Automatic daytime riding light

**NOTICE**

The changeover between daytime riding light and low-beam headlight including front side lights can be effected automatically.◀

**WARNING**

The automatic daytime riding light does not replace the personal assessment of the light conditions

Risk of accident

- Switch off the automatic daytime riding light in poor light conditions.◀
- In the Settings, Vehicle settings, Lights menu, switch on the Auto. dayt. rid. light function.



The indicator light for the automatic daytime riding light lights up.

- » If the ambient brightness decreases below a certain value, the low beam headlight is automatically switched on (e. B. in a tunnel). When sufficient ambient brightness is detected, the

daytime riding light is switched back on.



The indicator light for the daytime riding light shows if the daytime riding light is active.

Manual operation of the light when the automatic system is switched on

- If you press the button for the daytime riding light, the automatic daytime riding light is switched off and the low-beam headlight and front side lights are switched on (e.g. when you ride into a tunnel and the response of the automatic daytime riding light to the change in ambient brightness is delayed). The auxiliary headlight switches on again when the daytime riding light is switched off.
- Pressing the daytime riding light button again reactivates the automatic daytime riding

light, in other words, the day-time riding light is switched on again when ambient brightness is adequate.

Hazard warning lights system

Operating hazard warning flashers

- Switching on ignition (➡ 64).



NOTICE

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



- Press button **1** to switch on the hazard warning lights system.
 - » Ignition can be switched off.
- To switch off the hazard warning lights system, switch on the ignition if necessary and press button **1** again.

Turn indicators

Operating the turn indicators

- Switching on ignition (➡ 64).



- Press button **1** to the left to switch on the left turn indicator.
- Press button **1** to the right to switch on the right turn indicator.
- Operate button **1** in the centre position to switch off the turn indicator.

Comfort turn indicator



If button **1** has been pressed to the right or left, the turn indicators are automatically switched off under the following circumstances:

- Speed below 30 km/h: after 50 m distance covered.
- Speed between 30 km/h and 100 km/h: after a speed-dependent distance covered or in case of acceleration.
- Speed over 100 km/h: after flashing five times.

If button **1** is pressed to the right or left slightly longer, the turn in-

dicators only switch off automatically once the speed-dependent distance covered is reached.

Antilock Brake System (ABS)

Deactivating the ABS function

- Switching on ignition (➡ 64).



NOTICE

You have the option of deactivating the ABS function while the motorcycle is on the move.◀



- Press and hold button **1** until the ABS indicator and warning light changes its display behaviour.

Immediately after the button **1** is pressed, the system statuses for ASC/DTC and ABS are displayed as ON.

- » First the ASC indicator and warning light changes its display behaviour. Press and hold down button **1** until the ABS indicator and warning light responds. Under these circumstances, there is no

change in the ASC/DTC setting.



ABS indicator and warning light comes on.

Possible ASC system status OFF! is displayed.

- Release button **1** after the ABS system status changes over. The ASC/DTC system status remains unchanged and a new ABS system status OFF! is briefly displayed.



ABS indicator and warning light remains on.

- » The ABS function is switched off.
- » The integral function remains active.
- without riding modes Pro^{OE}
 - » Hill Start Control is still activated.<
- with riding modes Pro^{OE}
 - » Hill Start Control Pro is still activated.<
- with riding modes Pro^{OE}
 - » The function of the Dynamic Brake Control is also switched off when the ABS function is switched off.<
- See the section entitled "Engineering details" for more information on brake systems with BMW Motorrad Integral ABS:
 - » Partially integral brakes (152)
 - » Hill Start Control function (164)
- with riding modes Pro^{OE}
 - » Dynamic Brake Control function (160)<

Activating the ABS function



- Press and hold button **1** until the ABS indicator and warning light changes its display behaviour.

Immediately after the button **1** is pressed, the system statuses for ASC/DTC and ABS are displayed as OFF!.



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

Possible ASC system status **ON** is displayed.

- Release button **1** after the ABS system status changes over.



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

The ASC/DTC system status remains unchanged and a new ABS system status **ON** is briefly displayed.

- » The ABS function is switched on.
- You also have the option of switching the ignition off and then on again.



An ABS fault has occurred if the ABS indicator and warning light shows when the motorcycle accelerates to a speed in excess of the minimum stated below after the ignition was switched off and then on again.

min 10 km/h

Automatic Stability Control (ASC) Deactivating the ASC function

- without riding modes Pro^{OE}
- Switching on ignition (➡ 64).



NOTICE

You have the option of deactivating the ASC function while the motorcycle is on the move.◀◀



- Press and hold button **1** until the ASC indicator light changes its status.

Immediately after button **1** is pressed, ASC system status **ON** and current ABS system status are displayed.



ASC indicator and warning light comes on.

Possible ASC system status **OFF!** is displayed.

- Release button **1** once the ASC system status has changed.

The new ASC system status **OFF!** is displayed briefly. The ABS system status remains unchanged.

 ASC indicator and warning light remains on.

» The ASC function is switched off.

Activating the ASC function

– without riding modes Pro^{OE}



- Press and hold button **1** until the ASC indicator light changes its status.

Immediately after button **1** is pressed, ASC system status **OFF!** and current ABS system status are displayed.

 ASC indicator and warning light no longer lights up and starts to flash if the self-diagnosis is incomplete.

Possible ASC system status **ON** is displayed.

- Release button **1** once the status has changed.

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

The new ASC system status **ON** is displayed briefly. The ABS system status remains unchanged.

- » The ASC function is switched on.
- Alternatively, switch the ignition off and on again.

 An ASC fault has occurred if the ASC indicator and warning light shows when the motorcycle accelerates to a speed in excess of the minimum stated below after the ignition was switched off and then on again.

min 5 km/h

- See the section entitled "Engineering details" for more in-

formation on Automatic Stability Control:

- » How does the ASC work? (155)

Dynamic Traction Control (DTC)

– with riding modes Pro^{OE}

DTC Switching off

- Switch on the ignition.



NOTICE

Dynamic Traction Control (DTC) can also be switched off when the motorcycle is in motion. ◀



- Press and hold button **1** until the DTC indicator light changes its status.

Immediately after button **1** is pressed, DTC system status **ON** and current ABS system status are displayed.



DTC indicator and warning light comes on.

Possible DTC system status **OFF!** is displayed.

- Release button **1** once the status has changed. The new DTC system status **OFF!** is displayed briefly.

The ABS system status remains unchanged.



DTC indicator and warning light remains on.

- » The DTC function is switched off.

Switch on DTC



- Press and hold button **1** until the DTC indicator light changes its status.

Immediately after button **1** is pressed, DTC system status **OFF!** and current ABS system status are displayed.



DTC indicator and warning light goes out; if self-diagnosis has not completed, it starts to flash.

Possible DTC system status **ON** is displayed.

- Release button **1** once the status has changed.



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

The new DTC system status **ON** is displayed briefly. The ABS system status remains unchanged.

- » The DTC function is switched on.
- See the section entitled "Engineering details" for more information on Dynamic Traction Control:
- » How does Dynamic Traction Control work? (➡ 156)

Electronic Suspension Adjustment (D-ESA)

- with Dynamic ESA^{OE}

Dynamic ESA possible settings

The electronic chassis and suspension setting Dynamic ESA is able to adjust your motorcycle automatically to the load. If the spring setting is set to **Auto**, the rider does not have to change the load setting.

See the "Engineering details" section for more information on Dynamic ESA (➡ 157).

Available damping modes

- For on-road mode: Road and Dynamic

Available load settings

- Predefined minimum spring setting: Min

- Active riding position equaliser with automatic spring setting: Auto
- Predefined maximum spring setting: Max



NOTICE

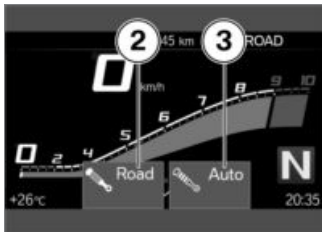
BMW Motorrad recommends the **Auto** chassis and suspension setting.◀

Viewing suspension settings

- Switching on ignition (➡ 64).



- Press button **1** view the current setting.



Immediately after pressing the button **1**, the chassis and suspension adjustments for

damping action **2** and spring setting **3** are displayed.

» The setting shows briefly, then disappears automatically.

Adjusting the chassis and suspension

- Switching on ignition (➡ 64).



- Press button **1** view the current setting.

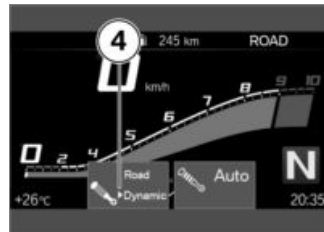
To adjust damping:

- Repeatedly press button **1** briefly until the setting you want to use appears on the display.



NOTICE

You can adjust the damping characteristic while the motor-cycle is on the move.◀



The selection arrow **4** is displayed.

» The selection arrow **4** disappears after the status is changed.

The following settings are available:

- Road: damping for comfortable on-road riding

- **Dynamic**: damping action for dynamic on-road riding



To make the spring setting:

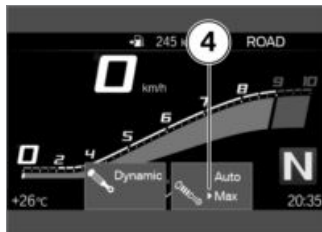
- Starting the engine (137).
- Repeatedly press and hold button **1** until the setting you want to use appears on the display.



NOTICE

The spring setting cannot be changed while riding.◀

The following message is displayed if no setting is possible:
Load adjustment only
avail. stopped.



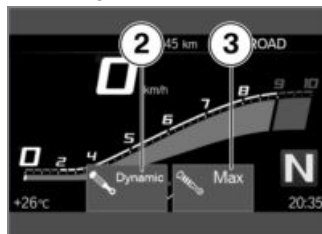
The selection arrow **4** is displayed.

- » The selection arrow **4** disappears after the status is changed.

The following settings are available:

- **Min**: Minimum spring setting (only suitable for one-up mode)
- **Auto**: Automatic spring setting (recommended chassis and suspension setting)
- **Max**: Maximum spring setting (only suitable for two-up mode)

- » The settings for damping and spring setting shown on the display are automatically accepted if you allow a certain length of time to pass without pressing button **1**.



The new chassis and suspension adjustments for damping action **2** and spring setting **3** are briefly displayed.

- If the temperature is very low, take the weight off the motorcycle before increasing the spring setting; if applicable, have your passenger dismount.

- » The chassis and suspension settings disappear once adjustment is complete.
- » In **Auto** loading mode, the spring setting is adjusted only once the motorcycle is driven off.

Riding mode

Using the riding modes

BMW Motorrad has developed operational scenarios for your motorcycle from which you can select the scenario suitable for your situation:

Series

- **RAIN**: Riding on a rain-wet roadway.
- **ROAD**: Riding on a dry roadway.

– with riding modes Pro^{OE}

with Pro riding modes

- **DYNAMIC**: Dynamic riding on a dry roadway.
- **DYNAMIC PRO**: For dynamic riding on dry roadways while taking into account the settings made by the rider.

The interplay of engine characteristics, ABS control and ASC/DTC control is optimised for each of the scenarios.

– with Dynamic ESA^{OE}

The chassis and suspension adjustment can also be adjusted in the scenario selected.

See the "Engineering details" section for more information on the riding modes (► 158).

Selecting riding mode

- Switching on ignition (► 64).



- Press button **1**.



The riding mode currently active **2** is sent to the back and the first selectable riding mode **3** is displayed. The guide **4** displays

how many riding modes are available.



- Repeatedly press button **1** until the riding mode you want appears on the display.

The following ride modes can be selected:

- **RAIN**: for riding on a rain-wet roadway.
- **ROAD**: for riding on a dry roadway.

– with riding modes Pro^{OE}

The following riding mode can be selected:

- **DYNAMIC**: for dynamic riding on a dry roadway.<1

» With the motorcycle at a standstill, the selected mode is activated after approximately two seconds.

» The newly selected riding mode is activated as you ride only when the following preconditions are satisfied:

- Throttle grip is in the idle position.
- Brake is not applied.
- Cruise control is not active.
- » The riding mode selected in this way is retained with the corresponding engine characteristics, ASCDTC and Dynamic ESA adaptation settings even after the ignition has been switched off.

PRO riding mode

– with riding modes Pro^{OE}

Adjustment option

The PRO riding modes can be set individually.

Setting up PRO riding mode

- Switching on ignition (▮▮▮ 64).
- Call up the **Settings, Vehicle settings** menu.
 - » The following PRO riding mode can be adapted:
- **DYNAMIC PRO riding mode**
- Select and confirm riding mode.

Adjusting Dynamic Pro

– with riding modes Pro^{OE}

- Setting up PRO riding mode (▮▮▮ 87).

The **Engine** system has been selected. The current setting is displayed as a diagram with

explanatory texts relating to the system.

- Select system and confirm.
- You can browse through the available settings and the corresponding explanations.
- Set up system.
 - » The Engine and DTC systems can be set up in the same way.
 - The settings can be reset to the factory settings:
 - Resetting riding mode settings (▮▮▮▮ 88).

Resetting riding mode settings

- Setting up PRO riding mode (▮▮▮▮ 87).
- Select **Reset** and confirm.
- » The following factory settings apply for DYNAMIC PRO RIDING MODE:
- DTC: Dynamic
- ENGINE: Dynamic

Cruise-control system

– with cruise control^{OE}

Display when adjusting settings (Speed Limit Info not active)



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

Display when adjusting settings (Speed Limit Info active)



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

Switching on cruise control



- Slide switch **1** to the right.
 - » Button **2** is enabled for operation.

Saving road speed



- Briefly push button **1** forward.



Adjustment range for
cruise control

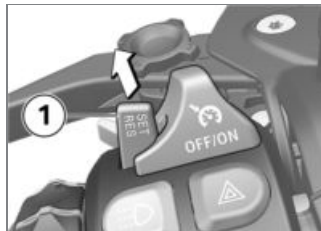
20...210 km/h



Indicator light for cruise
control lights up.

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

Accelerating



- Briefly push button **1** forward.
 - » Speed is increased by approx. 1 km/h each time you push the button.
- Push button **1** forward and hold it in this position.
 - » The motorcycle accelerates with infinite variability (no steps)..
 - » The current speed is maintained and saved if button **1** is not pushed again.

Decelerating



- Briefly push button **1** back.
 - » Speed is reduced by approx. 1 km/h each time you push the button.
- Push button **1** back and hold it in this position.
 - » The motorcycle decelerates with infinite variability (no steps).
 - » The current speed is maintained and saved if button **1** is not pushed again.

Deactivating cruise control

- Brake, pull the clutch lever or turn the throttle twistgrip (close the throttle by turning the twistgrip back past the idle position) to deactivate the cruise-control system.



NOTICE

Whenever the Pro shift assistant shifts gears, cruise control is automatically disengaged for safety reasons.◀



NOTICE

For safety reasons, cruise control is deactivated automatically when the ASC and DTC systems intervene.◀

- » Telltale light for cruise control goes out.

Resuming former cruising speed



- Briefly push button **1** back to return to the speed saved beforehand.



NOTICE

Opening the throttle does not deactivate the cruise-control system. If you release the twistgrip the motorcycle will decelerate only to the cruising speed saved in memory, even though you might have intended slowing to a lower speed.◀



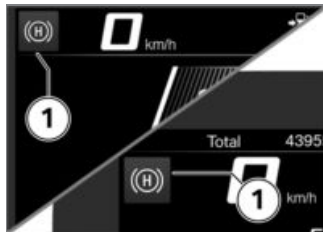
Indicator light for cruise control lights up.

Switching off cruise control



- Slide switch **1** to the left.
- » The system is deactivated.
- » Button **2** is disabled.

Hill Start Control Reading



The **1** symbol for the drive-off assistant is displayed in the Pure Ride view and in the top status line.

Operate Hill Start Control Requirement

The vehicle is at a standstill.



ATTENTION

Failure of the drive-off assistant

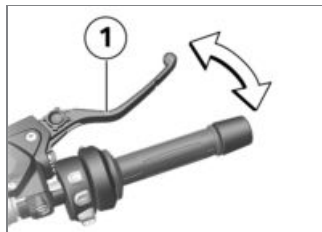
Risk of accident

- Secure the vehicle by braking manually.◀



NOTICE

Hill Start Control is purely a comfort system to facilitate holding the machine and pulling way on uphill gradients and should not be confused with a parking brake.◀



- Operate the brake lever **1** or footbrake lever strongly and release again quickly.



Green holding symbol is displayed.

» Hill Start Control has been activated.

- To switch off Hill Start Control, operate the brake lever **1** or footbrake lever again.



The holding symbol disappears.

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



NOTICE

When riding off, Hill Start Control is automatically deactivated.◀



Once the brake has been fully released, the holding symbol disappears.

- » Hill Start Control is deactivated.
- See the "Engineering details" section for more information on Hill Start Control:

» Hill Start Control function
(164)

Switching Hill Start Control on or off

- Switching on ignition (64).
- Call up the **Settings**, **Vehicle settings** menu.
- Switch **Hill Start Control** on or off.

Operating Hill Start Control Pro

– with riding modes Pro^{OE}



ATTENTION

Failure of the drive-off assistant

Risk of accident

- Secure the vehicle by braking manually.◀



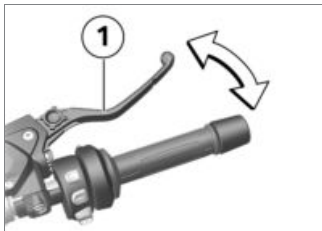
NOTICE

The drive-off assistant Hill Start Control Pro is only a comfort system to enable easier riding off on gradients and should not be confused with an electromechanical holding brake.◀



NOTICE

The Hill Start Control Pro drive-off assistant should not be used on inclines of over 40 %.◀



- Operate the brake lever **1** or footbrake lever strongly and release again quickly.
 - Alternatively, apply the brake for about one second beyond the vehicle reaching a standstill on an incline of at least 5 %.
-  Green holding symbol is displayed.

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



NOTICE

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



The holding symbol disappears.

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



NOTICE

When riding off, Hill Start Control Pro is automatically deactivated.◀



Once the brake has been fully released, the holding symbol disappears.

- » Hill Start Control Pro is deactivated.
- See the "Engineering details" section for more information on Hill Start Control Pro:

- » Hill Start Control function (164)

Adjusting Hill Start Control Pro

– with riding modes Pro^{OE}

- Switching on ignition (64).
- Call up the **Settings**, **Vehicle settings** menu.
- Select **HSC Pro**.
- To switch off Hill Start Control Pro, select **Off**.
- » Hill Start Control Pro is deactivated.
- To switch on manual Hill Start Control Pro, select **Manual**.
- » Hill Start Control Pro can be activated by forcefully operating the handbrake or footbrake lever.
- To switch on automatic Hill Start Control Pro, select **Auto**.
- » Hill Start Control Pro can be activated by forcefully operating the handbrake or footbrake lever.

ing the handbrake or footbrake lever.

- » If the brake is actuated for approximately one second after the vehicle has come to a standstill and the motorcycle is on a gradient of at least 5%, Hill Start Control Pro is automatically activated.
- » The selected setting remains stored even after the ignition is switched off.

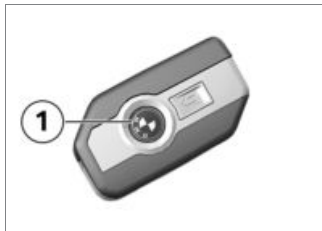
Anti-theft alarm (DWA)

– with anti-theft alarm (DWA)^{OE}

Activation

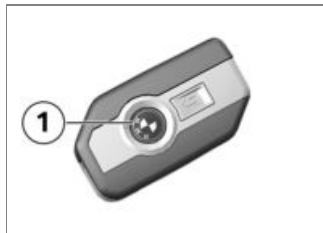
- Switching on ignition (➡ 64).
- Customising anti-theft alarm settings (➡ 96).
- Switch off the ignition.
- » If the alarm system is activated, then the alarm system will be automatically activated when the ignition is switched off.

- » Activation takes approximately 30 seconds to complete.
- » Turn indicators flash twice.
- » Confirmation tone sounds twice (if programmed).
- » Anti-theft alarm is active.
- with Keyless Ride^{OE}



- Switch off the ignition.
- Press button **1** on the radio-operated key twice.
- » Activation takes approximately 30 seconds to complete.
- » Turn indicators flash twice.
- » Confirmation tone sounds twice (if programmed).

- » Anti-theft alarm is active.



- Press button **1** again on the radio-operated key during the activation phase to deactivate the motion sensor (e.g. to transport the motorcycle by train when the severe movements may activate the alarm).
- » Turn indicators flash three times.
- » Confirmation tone sounds three times (if programmed).
- » Motion sensor has been deactivated.

Alarm signal

A DWA alarm can be triggered by:

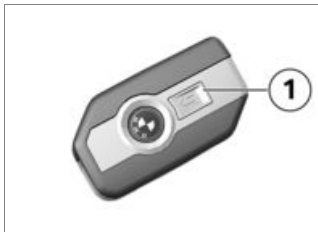
- motion sensor
- switch-on attempt with an unauthorised vehicle key
- disconnection of the DWA anti-theft alarm from the motorcycle's battery (DWA internal battery in the anti-theft alarm provides power - alarm tone only, the turn indicators do not flash)

All functions are sustained even if the internal battery of the DWA anti-theft alarm system is flat; the only difference is that an alarm cannot be triggered if the system is disconnected from the motorcycle's battery.

An alarm lasts for approximately 26 seconds. While an alarm is in progress an alarm tone sounds and the turn indicators flash. The

type of alarm tone can be set by an authorised BMW Motorrad dealer.

- with Keyless Ride^{OE}



The activated alarm can be aborted at any time by pressing the **1** button on the radio-operated key, without deactivating the anti-theft alarm.

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

the reason for the alarm for one minute.

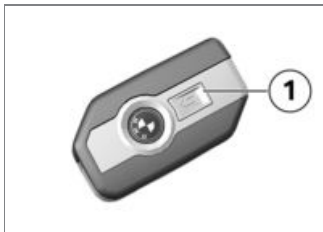
Light signals issued by the DWA LED:

- Flashes 1x: motion sensor 1
- Flashes 2x: motion sensor 2
- Flashes 3x: ignition switched on with unauthorised vehicle key
- Flashes 4x: disconnection of the anti-theft alarm from the motorcycle's battery
- Flashes 5x: motion sensor 3

DWA Deactivating

- Switch on the ignition.

– with Keyless Ride^{OE}



- Short-press button **1**.
- » Turn indicators flash once.
- » Confirmation tone sounds once (if programmed).
- » Anti-theft alarm (DWA) is deactivated.

Customising anti-theft alarm settings

- Switching on ignition (➡ 64).
- Call up the Settings, Vehicle settings, Alarm system menu.
- » The following settings are available:

- Adapt Warning signal
- Switch Tilt alarm sensor on or off
- Switch Arming tone on or off
- Switch Arm automatically on or off
- » Possible settings (➡ 96)

Possible settings

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

Tilt alarm sensor: Activate tilt sensor to monitor the inclination of the vehicle. The DWA responds, for example, to wheel theft or being towed away.



NOTICE

Deactivate the tilt sensor when transporting the vehicle in order to prevent the DWA from tripping.◀

Arming tone: Confirmation alarm tone after having activated/

deactivated the DWA in addition to flashing turn indicators.
Arm automatically:
Automatic activation of the alarm function after the ignition is switched off.

Tyre pressure monitoring (RDC)

– with tyre pressure control (RDC)^{OE}

Switching the minimum pressure warning on or off

- The minimum pressure of the tyres can be freely selected. When the minimum pressure is reached, a minimum pressure warning can be displayed.
- Call up the Settings, Vehicle settings, RDC menu.
- Switch Nom. pressure warning on or off.

Heated handlebar grips

– with heated grips^{OE}

Operating the heated handlebar grips



NOTICE

The heating in the heated handlebar grips can be activated only when the engine is running.◀



NOTICE

The increase in power consumption caused by having the heated handlebar grips switched on can drain the battery if you are riding at low engine speeds. If the charge level is low, the heated handlebar grips are switched off to ensure the battery's starting capability.◀

- Starting the engine (▮▶ 137).



- Repeatedly press button **1** until the desired heating level **2** appears in front of the heated grip symbol **3**.

The handlebar grips have two-stage heating.



50% heating power



100% heating power

- » Stage 2 is for heating the grips quickly: it is advisable to switch back to stage 1 as soon as the grips are warm.

» The selected heating stage will be saved if you allow a certain length of time to pass without making further changes.

- To switch off the heated grips, repeatedly press button **1** until the heated grip **3** is hidden.

On-board computer

Calling up the on-board computer

- Call up the *My vehicle* menu.
- Scroll to the right until the *ON-BOARD COMPUTER* menu screen is displayed.

Resetting on-board computer

- Calling up the on-board computer (▮▶ 97).
- Press down the MENU rocker button.
- Select *Reset all values* or *Reset individual val.* and confirm.

The following values can be re-set:

- Break
- Journey
- Current (TRIP 1)
- Av. speed.
- Av. consumption.

Calling up the trip computer

- Calling up the on-board computer (► 97).
- Scroll to the right until the TRIP COMPUT. menu screen is displayed.

Resetting trip computer

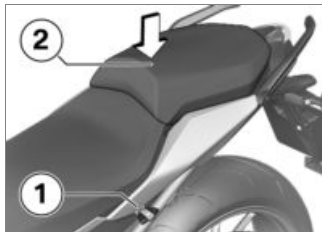
- Calling up the trip computer (► 98).
- Press down the MENU rocker button.
- Select **Reset automatically** or **Reset all** and confirm.
- » If **Reset automatically** is selected, the on-board

computer is automatically reset if a minimum of six hours have passed and the date has changed since the ignition was switched off.

Front and rear seats

Removing rear seat

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

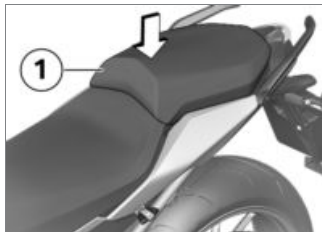


- Press down on the front part of rear seat **2** and at the same time turn seat lock **1** to the left

with the vehicle key and hold it in this position.

- Lift the rear seat at the front and release the key.
- Remove rear seat **2** and place it, upholstered side down, on a clean surface.

Install the rear seat



- Begin by slipping rear seat **1** into the mounts at the back.
- Firmly press down on front seat **1** at the front.
- » The rear seat engages with an audible click.

Removing front seat

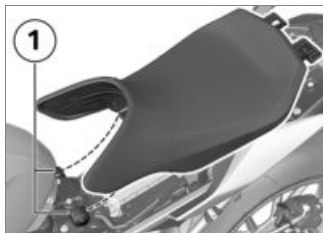
- Removing rear seat (🔧➡ 98).

Front seat is unlocked.

- Work the front seat to the rear to remove and place it, upholstered side down, on a clean surface.

Installing front seat

- Removing rear seat (🔧➡ 98).



- Push the front seat all the way into front mounts **1** and then lower it into position at the back.

TFT display

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Display licence information.....	122

General instructions

Warnings



WARNING

Using a smartphone during the journey or while the engine is running

Risk of accident

- Always observe the relevant road traffic regulations.
- Do not use the smartphone during the journey (apart from applications that do not require operation, e.g. making telephone calls with the hands-free system).◀



WARNING

Distraction from the road and loss of control

Operating the integrated information system and communication devices while driving results in a risk of accident

- Operate those systems or devices only when the traffic situation allows for it.
- If necessary, stop and operate the systems or devices when stationary.◀

Connectivity functions

Connectivity functions include media, telephony and navigation. Connectivity functions can be used if the TFT display is connected to a mobile end device and a helmet (►► 113). For more information on the Connectivity functions go to **bmw-motorrad.com/connectivity**



NOTICE

If the fuel tank is between the mobile device and the TFT display, the Bluetooth connection may be restricted. BMW Motorrad recommends

storing the device above the fuel tank (e.g. in your jacket pocket).◀



NOTICE

Depending on the mobile device, the scope of the Connectivity functions may be restricted.◀

BMW Motorrad Connected App

The BMW Motorrad Connected App contains usage and vehicle information. For some functions, such as navigation, the app must be installed on the mobile end device and connected to the TFT display. The app is used to start route guidance and adjust the navigation.



NOTICE

On some mobile devices, e.g. those with iOS operating systems, the BMW Motorrad Con-

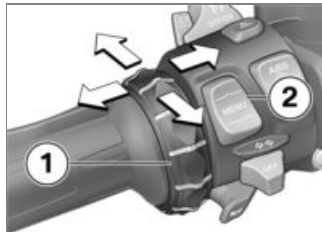
nected App must be opened before use. ◀

Currentness

The TFT display may be updated after the publication date. Because of this, your motorcycle may differ from the information supplied in the Rider's Manual. Up-to-date information is available at:

bmw-motorrad.com

Principle Controls



All contents of the display are operated using the multi-controller **1** and the MENU **2** rocker button.

Depending on the context, the following functions are possible.

Multi-controller functions

Turn the multi-controller upwards:

- Move the cursor upwards in lists.
- Adjust settings.
- Increase volume.

Turn the multi-controller downwards:

- Move the cursor downwards in lists.
- Adjust settings.
- Decrease volume.

Tilt the multi-controller to the left:

- Activate the function in accordance with the operation feedback.
- Activate the function to the left or back.
- Go back to the View menu after settings.
- In the View menu, change up a level.
- In the My Vehicle menu: advance one menu screen.

Tilt the multi-controller to the right:

- Activate the function in accordance with the operation feedback.

- Confirm selection.
- Confirm settings.
- Advance a menu step.
- Scroll to the right in lists.
- In the My Vehicle menu: advance one menu screen.

MENU rocker button functions



NOTICE

Instructions given by the navigation system are displayed in a dialogue box if the **Navigation** menu has not been called up. Operation of the MENU rocker button is temporarily restricted. ◀

Briefly push MENU up:

- In the View menu, change up a level.
- In the Pure Ride view: change the display for rider info status line.

Press and hold the top part of the MENU rocker button:

- In the View menu: call up Pure Ride view.
- In Pure Ride view: change operating focus to the Navigator.

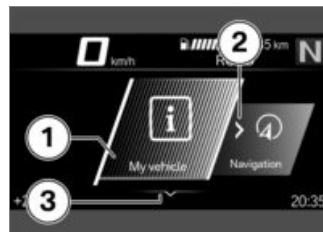
Briefly push MENU down:

- Change down a level.
- No function if the lowest hierarchical level has been reached.

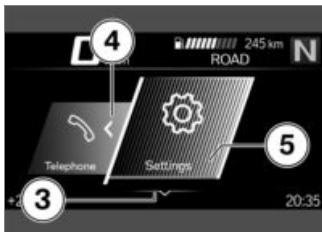
Hold MENU down:

- Change back to the last menu after a previous menu change by holding up the MENU rocker button.

Operating instructions in the main menu



Operating instructions show whether interactions are possible, and which ones.



Meaning of the operating instructions:

- Operating instruction **1**: the left end has been reached.
- Operating instruction **2**: it is possible to scroll to the right.
- Operating instruction **3**: it is possible to scroll down.
- Operating instruction **4**: it is possible to scroll to the left.
- Operating instruction **5**: the right end has been reached.

Operating instructions in submenus

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



Meaning of the operating instructions:

- Operating instruction **1**: The current display is located in a hierarchical menu. A submenu level is shown with a symbol. Two symbols indicate two or more submenu levels. The colour of the symbol changes de-

pending on whether you can return to a higher level.

- Operating instruction **2**: An additional submenu level can be called up.
- Operating instruction **3**: There are more entries than can be displayed.

Display Pure Ride view

- Press and hold rocker button MENU up.

Switching functions on and off



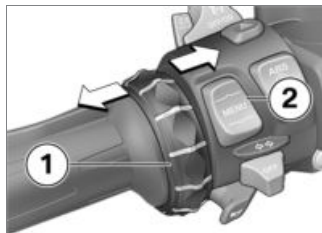
Some menu items have a check box in front of them. The check box shows whether the function is on or off. Action symbols after the menu items show what will be switched by tilting the multi-controller briefly to the right.

Examples for switching on and off:

- Symbol **1** shows that the function is switched on.
- Symbol **2** shows that the function is switched off.

- Symbol **3** shows that the function can be switched off.
- Symbol **4** shows that the function can be switched on.

Call up the menu



- Display Pure Ride view (105).
- Briefly push button **2** down.

The following menus can be called up:

- My vehicle
- Navigation
- Media
- Telephone
- Settings

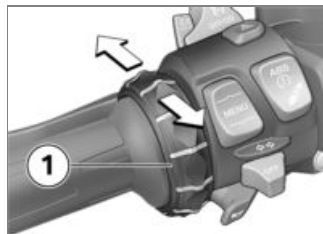
- Repeatedly press the multi-controller **1** briefly to the right until the desired menu item is highlighted.
- Briefly push button **2** down.



NOTICE

The Settings menu can only be called up when the vehicle is stationary. ◀

Move the cursor in lists

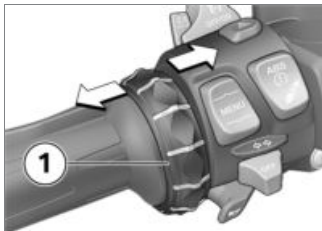


- Call up the menu (106).
- To move the cursor down in lists, turn the multi-controller **1**

down until the desired entry is highlighted.

- To move the cursor up in lists, turn the multi-controller **1** up until the desired entry is highlighted.

Confirm selection



- Select the desired entry.
- Briefly press the multi-controller **1** to the right.

Call up the last menu used

- In Pure Ride view: press and hold the MENU rocker button.

- » The last menu used is called up. The last entry highlighted is selected.

Changing the operating focus

- with preparation for navigation system^{OE}

If the Navigator is connected, it is possible to switch between operation of the Navigator and the TFT display.

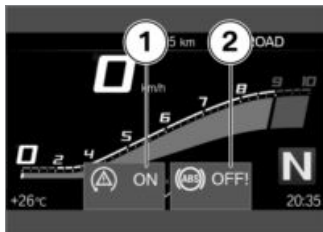
Changing the operating focus

- with preparation for navigation system^{OE}
- with preparation for navigation system^{OE}
- with navigation system^{OA}
- Securing navigation system (➡ 207).
- Display Pure Ride view (➡ 105).

- Press and hold rocker button MENU up.
- » Operating focus switches to the Navigator or the TFT display. The active device is marked on the left in the upper status line. Operator actions affect the currently active device until the operating focus is changed again.
- » Operating navigation system (➡ 208)

System status displays

The system status is displayed in the lower area of the menu if a function is switched on or off.



Examples of what the system statuses mean:

- System status **1**: ASC/DTC function is switched on.
- System status **2**: ABS function is switched off.

Switches the display for driver info. status line

Requirement

The vehicle is at a standstill. The Pure Ride view appears on the display.

- Switching on ignition (➡ 64).
- » All necessary information from the on-board computer for op-

eration on public roads (e.g. TRIP **1**) and trip computer (e.g. TRIP **2**) are available in the TFT display. The information can be displayed in the top status line.

- with tyre pressure control (RDC)^{OE}
- » Information from the tyre pressure control can also be displayed. ◀
- Select content of the rider info. status line (➡ 109).



- Press and hold the button **1** to display the Pure Ride view.

- Briefly press button **1** to select the value in the top status line **2**.

The following values can be displayed:

- Odometer Total
- Trip distance 1 TRIP 1
- Trip distance 2 TRIP 2



Average consumption 1



Average consumption 2



Riding time 1



Riding time 2



Break 1



Break 2



Average speed 1



Average speed 2



Tyre pressure



Fuel gauge

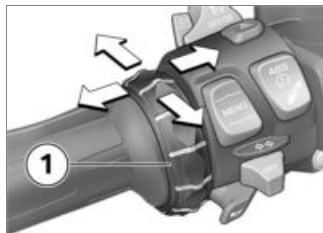


Range

Select content of the rider info. status line

- Call up the Settings, Display, Status line content menu.
- Switch on the desired displays.
- » It is possible to switch between the selected displays in the rider info. status line. If no displays are selected, only the range will be displayed.

Adjust settings



- Select and confirm the desired settings menu.
- Turn the multi-controller **1** downwards until the desired setting is highlighted.
- If there are operating instructions, tilt the multi-controller **1** to the right.
- If there are no operating instructions, tilt the multi-controller **1** to the left.
- » The setting is saved.

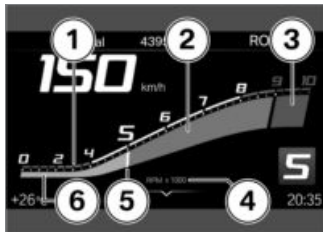
Switching Speed Limit Info on or off

Requirement

Vehicle is connected to the Navigator or a compatible mobile end device. The BMW Motorrad Connected App is installed on the mobile end device.

- Speed Limit Info displays the maximum speed currently permitted.
- Call up the Settings, Display menu.
- Switch Speed Limit Info on or off.

Pure Ride view Engine speed display



- 1 Scale
- 2 Lower engine speed range
- 3 Upper/red engine speed range
- 4 Needle
- 5 Secondary indicator
- 6 Engine speed display unit:
1000 revolutions per
minute



NOTICE

The red engine speed range changes depending on the coolant temperature:

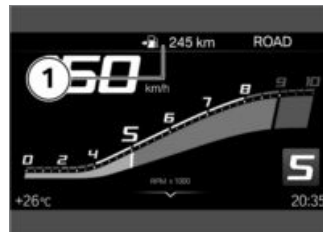
The colder the engine, the lower the speed at which the red engine speed range starts.

The warmer the engine, the higher the speed at which the red engine speed range starts.

When the operating temperature is reached, the display of the red engine speed range no longer changes.

The upshift recommendation is dynamically adapted.◀

Range



The range readout **1** indicates how far you can ride with the fuel remaining in the tank. This distance is calculated on the basis of average consumption and the quantity of fuel on board.

- When the motorcycle is propped on its side stand the slight angle of inclination means that the sensor cannot register the fuel level correctly. This is the reason why the range is recalculated only when the side stand is in the retracted position.

- The range is shown together with a warning once the fuel reserve has been reached.
- After a refuelling stop, range is recalculated if the amount of fuel in the tank is greater than the reserve quantity.
- The calculated range is only an approximate figure.

Recommendation to upshift



The upshift recommendation **1** signals the economically best point in time for upshift.

General settings

Adjust the volume

- Connect rider's and passenger's helmet (114).
- Increase volume: turn the multi-controller upwards.
- Decrease volume: turn the multi-controller downwards.
- Mute: turn the multi-controller all the way down.

Setting the date

- Switching on ignition (64).
- Call up the Settings, System settings, Date and time, Set date menu.
- Adjust Day, Month and Year.
- Confirm setting.

Set date format

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

Setting the clock

- Switching on ignition (64).

! WARNING

Adjusting the clock when riding

Risk of accident

- Set the clock only when the motorcycle is stationary.◀
- Call up the Settings, System settings, Date and time, Set time menu.
- Adjust Hour and Minute.

Setting time format

! WARNING

Adjusting the clock when riding

Risk of accident

- Set the clock only when the motorcycle is stationary.◀

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

Switching GPS synchronisation on or off

- with preparation for navigation system^{OE}
- Call up the Settings, System settings, Date and time menu.
- Switch GPS synchronisation on or off.
 - » When the respective option is activated in the Navigator, the time from the Navigator is applied.
- with navigation system^{OA}
 - » Special functions ( 211) <

Setting units of measurement

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

Setting the language

- Call up the Settings, System settings, Language menu.
- The following languages can be adjusted:
- Chinese
 - German
 - English
 - Spanish
 - French
 - Italian
 - Dutch

- Portuguese
- Russian
- Ukrainian
- Polish
- Turkish

Adjusting brightness

- Call up the Settings, Display, Brightness menu.
- Adjusting display brightness.

Resetting all settings

- All the settings in the Settings menu can be reset to the factory settings.
 - Call up the Settings menu.
 - Select Reset all and confirm.
- The settings in the following menus are reset:
- Vehicle settings
 - System settings
 - Connections
 - Display
 - Information

- » Existing Bluetooth connections are not deleted.

Bluetooth

Short-range wireless technology

The Bluetooth function might not be available in certain countries.

Bluetooth is a short-range wireless technology. Bluetooth devices are short-range devices transmitting on the license-free ISM band (Industrial, Scientific, Medical) between 2.402 GHz and 2.480 GHz. They can be operated anywhere in the world without a licence being required. Although Bluetooth is designed to establish and sustain robust connections over short distances, as with every other wireless technology disruptions are possible. Interference can affect connections or connections can sometimes fail. Particularly when

multiple devices operate in a Bluetooth network, with wireless technology of this nature it is not possible to ensure fault-free communications in every situation.

Possible sources of interference:

- interference zones due to transmission masts and similar.
- devices with non-compliant Bluetooth implementations
- proximity of other Bluetooth-compatible devices

Pairing

Two Bluetooth devices must detect each other before they can create a connection with each other. This process of mutual recognition is known as pairing. When two devices have paired they remember each other, so the pairing process is conducted only once, on initial contact.



NOTICE

On some mobile devices, e.g. those with iOS operating systems, the BMW Motorrad Connected App must be opened before use. ◀

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

- The Bluetooth function of the device must be activated
- The device must be "visible" to others
- The device must support the A2DP profile
- Other Bluetooth-compatible devices must be OFF (e.g.

mobile phones and navigation systems).

Please consult the operating instructions for your communication system.

Pairing

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

The connection status for mobile end devices is displayed.

Connect mobile end device

- Pairing (➡ 114).
- Activate the mobile end device's Bluetooth function

(see mobile end device's operating instructions).

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

Mobile end devices are being searched for.



The Bluetooth symbol flashes in the bottom status line during pairing.

Mobile end devices found are displayed.

- Select and confirm mobile end device.
- Follow the instructions on the mobile end device.
- Confirm that the code matches.
- » The connection is established and the connection status updated.
- » If the connection is not established, consult the

troubleshooting chart in the section entitled "Technical data". (➡ 220)

- » Depending on the mobile end device, telephone data is transferred to the vehicle automatically.
- » Telephone data (➡ 122)
- » If the telephone book is not displayed, consult the troubleshooting chart in the section entitled "Technical data". (➡ 221)
- » If the Bluetooth connection is not working as expected, consult the troubleshooting chart in the section entitled "Technical data". (➡ 221)

Connect rider's and passenger's helmet

- Pairing (➡ 114).
- Select **Rider's helmet** or **Passenger helm.** and confirm.

- Make the helmet's communication system visible.
- Select PAIRING NEW HELMETS or PAIRING NEW PASS. HELM. and confirm.

Helmets are searched for.



The Bluetooth symbol flashes in the bottom status line during pairing.

Helmets found are displayed.

- Select and confirm helmet.
- » The connection is established and the connection status updated.
- » If the connection is not established, consult the troubleshooting chart in the section entitled "Technical data". (►► 220)
- » If the Bluetooth connection is not working as expected, consult the troubleshooting chart in the section entitled "Technical data". (►► 221)

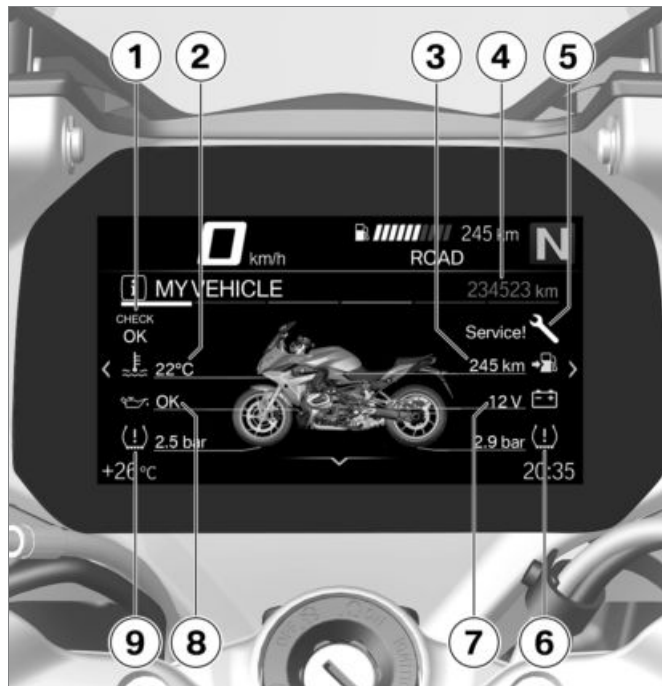
Deleting connections

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

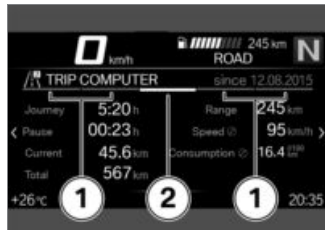
My vehicle

Start screen

- 1 Check Control display
Mode of presentation
(32)
- 2 Coolant temperature
(47)
- 3 Range (110)
- 4 Total distance travelled
- 5 Service-due indicator
(60)
- 6 Rear tyre pressure (49)
- 7 On-board voltage (192)
- 8 Engine oil level (47)
- 9 Front tyre pressure
(49)

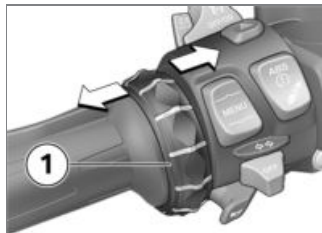


Operating instructions



- Operating instruction **1**: tabs which show how far to the left or right can be scrolled.
- Operating instruction **2**: tab which shows the position of the current menu screen.

Scrolling through menu screens



- Call up the **My vehicle** menu.
- To scroll to the right, briefly press Multi-Controller **1** to the right.
- To scroll to the left, briefly press Multi-Controller **1** to the left.

The **My Vehicle** menu contains the following screens:

- **MY VEHICLE**
- Check Control messages (if any)
- **ON-BOARD COMPUTER**
- **TRIP COMPUTER**

- with tyre pressure control (RDC)^{OE}
- **TYRE PRESSURE** ◀
- **SERVICE REQUIREMENTS**
- For more information on tyre pressure and Check Control messages, see the "Displays" section.



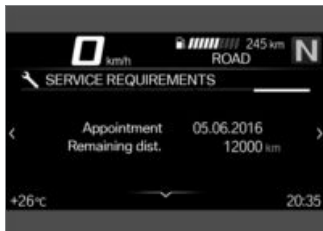
NOTICE

Check control messages are attached dynamically to the **My Vehicle** menu screen as additional tabs. ◀

On-board computer and trip computer

The **ON-BOARD COMPUTER** and **TRIP COMPUTER** menu screens display vehicle and trip data, such as average values.

Service requirements



If the time remaining to the next service is less than a month or if the next service is due within 1000 km, a white CC message is displayed.

Navigation

Warnings

WARNING

Using a smartphone during the journey or while the engine is running

Risk of accident

- Always observe the relevant road traffic regulations.
- Do not use the smartphone during the journey (apart from applications that do not require operation, e.g. making telephone calls with the hands-free system).◀

WARNING

Distraction from the road and loss of control

Operating the integrated information system and communication devices while driving results in a risk of accident

- Operate those systems or devices only when the traffic situation allows for it.
- If necessary, stop and operate the systems or devices when stationary.◀

Precondition

The vehicle is connected to a compatible mobile end device.

Precondition

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

NOTICE

On some mobile devices, e.g. those with iOS operating systems, the BMW Motorrad Connected App must be opened before use.◀

Entering destination address

- Connect mobile end device (➡ 114).
- Call up the BMW Motorrad Connected App and start the route guidance.
- Call up the **Navigation** menu in the TFT display.
 - » Active route guidance is displayed.
 - » If the active route guidance is not displayed, consult the troubleshooting chart in the section entitled "Technical data". (➡ 221)

Selecting destination from recent destinations

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

Selecting destination from favourites

- The FAVOURITES menu displays all destinations which have been saved as favourites in the BMW Motorrad Connected app. No new favourites can be added using the TFT display.
- Call up the Navigation, Favourites menu.
- Select and confirm destination.
- Select Start guidance.

Entering special destinations

- Special destinations, such as points of interest, can be displayed on the map.
- Call up the Navigation, POIs menu.

The following locations can be selected:

- At current location
- At destination

- Along the route
- Select where the special destinations should be looked for. e.g. the following special destination can be selected:
 - Filling station
 - Select and confirm the special destination.
 - Select Start route guidance and confirm.

Setting route criteria

- Call up the Navigation, Route criteria menu.
- The following criteria can be selected:
- Route type
 - Avoid
 - Select desired Route type.
 - Switch desired Avoid on or off.

The number of avoidances activated is displayed in brackets.

Ending route guidance

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

Switching spoken instructions on or off

- Connect rider's and passenger's helmet (📞 114).
- The navigation can be read out by a computer voice. For this purpose, Spoken instructions must be switched on.
- Call up the Navigation, Active route guidance menu.
- Switch Spoken instructions on or off.

Repeating last spoken instruction

- Call up the Navigation, Active route guidance menu.

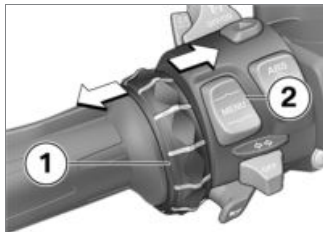
- Select Current instruction and confirm.

Media

Precondition

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

Control music playback



- Call up the Media menu.



NOTICE

BMW Motorrad recommends setting the volume on the mobile

end device for media and calls to maximum before setting off. ◀

- Adjust the volume (111).
- Next track: briefly tilt Multi-Controller **1** to the right.
- Last track or start of the current track: briefly tilt Multi-Controller **1** to the left.
- Fast forward: hold Multi-Controller **1** to the right.
- Rewind: hold Multi-Controller **1** to the left.
- Call up the context menu: press the bottom part of the button **2**.



NOTICE

Depending on the mobile device, the scope of the Connectivity functions may be restricted. ◀

- » The following functions can be used in the context menu:
 - Start playback Or Pause playback.

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

You can adjust the following settings in the Audio options submenu:

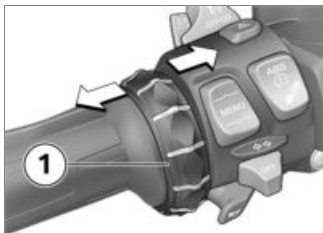
- Switch Shuffle on or off.
- Select Repeat: Off, One (current track) or All.

Phone

Precondition

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

Telephone calls



- Call up the Telephone menu.
- Accept call: tilt Multi-Controller **1** to the right.
- Reject call: tilt Multi-Controller **1** to the left.
- End the call: tilt Multi-Controller **1** to the left.

Muting

During active phone calls, the microphone in the helmet can be muted.

Phone calls with multiple participants

A second call can be accepted while you are on a call. The first phone call is put on hold. The number of active telephone calls is shown in the Telephone menu. It is possible to switch between two phone calls.

Telephone data

Depending on the mobile end device, telephone data may be transmitted to the vehicle automatically once pairing is complete (113).

Phone book: list of contacts saved on the mobile end device

Call list: list of calls with the mobile end device

Favourites: list of favourites saved on the mobile end device

Display software version

- Call up the Settings, Information, Software version menu.

Display licence information

- Call up the Settings, Information, Licences menu.

Adjustment

Mirrors	124
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Mirrors

Adjusting mirrors



- Turn the mirror head to the desired position.

Adjusting mirror arm



ATTENTION

Clash of mirror arm with other components.

Component damage

- Adjust mirror arm correctly. Note marking on the mirror arm.◀



- Turn mirror arm.



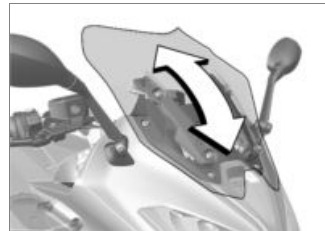
- Align marking 1.

Windscreen

Adjust windscreen

Requirement

The motorcycle is at a standstill.



WARNING

Adjusting the windscreen while riding

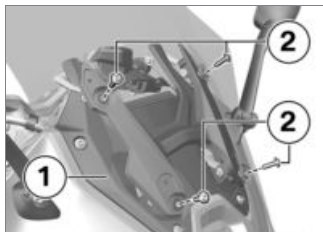
Risk of falling

- Do not attempt to adjust the windscreen unless the motorcycle is at a standstill.◀
- Move the windscreen up or down.

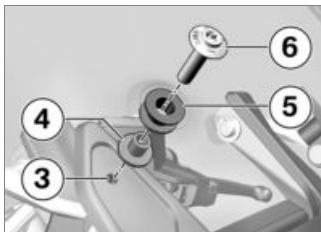
- » The windscreen is held at the top or bottom limit position by spring force.

Repositioning windscreen

- The windscreen can be secured to the vehicle at either of two different positions.



- To reposition the windscreen **1**, remove all screws **2** and remove the windscreen.



- Position the windscreen at the appropriate hole **3**, noting bushing **4** (inserted **from below**) and rubber grommet **5**.
- Install all four screws **6**.

 Windscreen to holder

2.4 Nm

Headlight

Headlight beam throw and spring setting

The headlight beam throw generally remains constant by adjustment of the spring setting to the load status.

Adjustment of the spring setting may only be inadequate if the load is very high. In this case, the headlight beam throw must be adjusted to the weight.



NOTICE

If there are doubts about the correct headlight beam throw, have the setting checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.◀

Clutch

Adjust the clutch lever

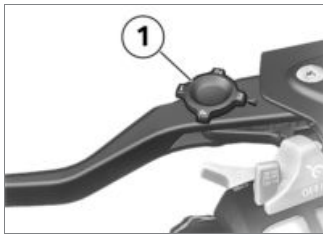


WARNING

Adjusting the clutch lever while riding

Risk of accident

- Adjust the clutch lever only when the motorcycle is at a standstill. ◀



- Turn adjuster knob **1** to the desired position.



NOTICE

The adjuster is easier to turn if you push the clutch lever forward. ◀

- » Four settings are possible:
- **Position 1:** smallest span between handlebar grip and clutch lever
 - **Position 4:** largest span between handlebar grip and clutch lever

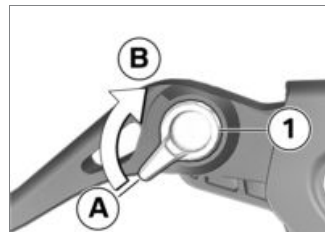
– with Option 719 Milled Part Set Classic^{OE}

or

– with Option 719 Milled Part Set Storm^{OE}

or

– with HP milled part package^{OE}



- Turn the adjustment lever **1** into the desired position.
- » Adjustment options:
 - From position **A**: narrowest distance between handlebar grip and clutch lever.
 - In 5 steps in direction of position **B** for enlarging the dis-

tance between handlebar grip and clutch lever.<

Gearshift lever

– with Option 719 Milled Part Set Classic^{OE}

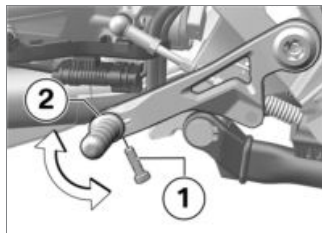
or

– with Option 719 Milled Part Set Storm^{OE}

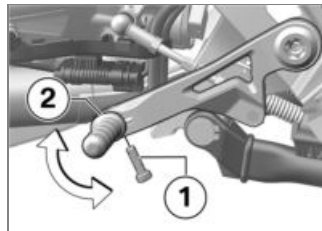
or

– with HP milled part package^{OE}

Adjusting gearshift lever peg



- Foot distance and height to peg **2** can be adjusted by turning to different positions.
- Remove the bolt **1**.



- Clean the threads.
- Turn the peg **2** in the desired position.
- Fit **new** bolt **1**.



Peg to gearshift lever

Thread-locking compound:
Micro-encapsulated

10 Nm

Brakes

Adjust the handbrake lever

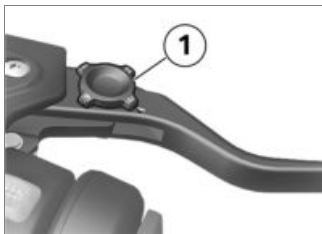


WARNING

Adjusting the brake lever while riding

Risk of accident

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



- Turn adjuster knob **1** to the desired position.



NOTICE

The adjuster is easier to turn if you push the brake lever forward. ◀

- » Four settings are possible:
- **Position 1:** smallest span between handlebar grip and brake lever
 - **Position 4:** largest span between handlebar grip and brake lever

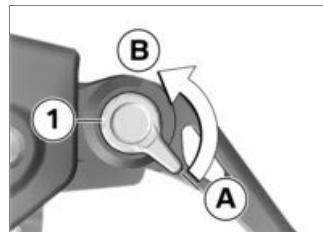
– with Option 719 Milled Part Set Classic^{OE}

or

– with Option 719 Milled Part Set Storm^{OE}

or

– with HP milled part package^{OE}

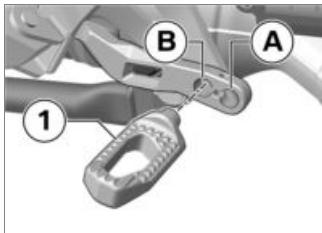


- Turn the adjustment lever **1** into the desired position.
- » Adjustment options:
 - From position **A**: narrowest distance between handlebar grip and handbrake lever.
 - In 5 steps in direction of position **B** for enlarging the dis-

tance between handlebar grip and handbrake lever.◀

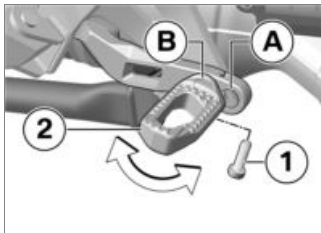
Adjust footbrake lever peg

- with Option 719 Milled Part Set Classic^{OE}
- or
- with Option 719 Milled Part Set Storm^{OE}
- or
- with HP milled part package^{OE}



- Foot distance and height to peg **1** can be adjusted by turning through 180° and installation in position **A** or **B**.

- Remove the bolt **1**.



- Clean the threads.
- Install peg **2** in desired position **A** or **B**.
- Turn the peg **2** in the desired position.
- Fit **new** bolt **1**.



Peg to footbrake lever

Thread-locking compound:
Micro-encapsulated

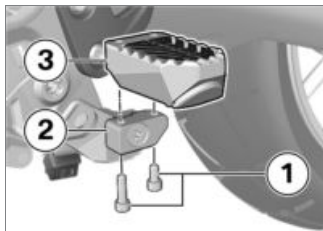
10 Nm

Footrests

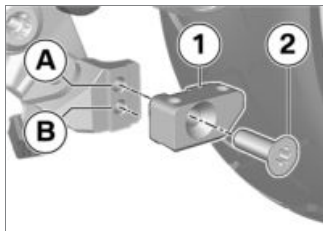
- with Option 719 Milled Part Set Classic^{OE}
- or
- with Option 719 Milled Part Set Storm^{OE}
- or
- with HP milled part package^{OE}

Adjusting footrests

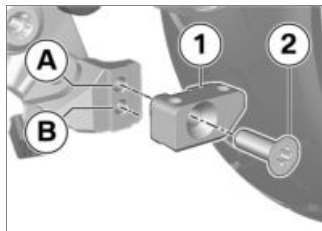
- The footrest is adjusted on the right and left in the same way.
- The position of the footrest must be set identically on the right and on the left.



- Remove screws **1**.
- Remove footrest **3** from clamping block **2**.



- Remove bolt **2**.
- Remove clamping block **1**.

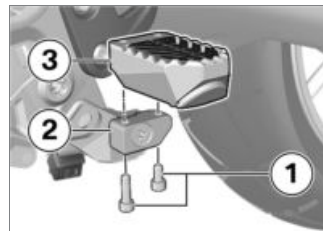


- Install clamping block **1** in required position **A** or **B** and tighten bolt **2**.



Clamping block on
footrest hinge

20 Nm



- Position footrest **3** on clamping block **2**.
- Install screws **1**.



Footrest on clamping
block

10 Nm

- Remove and refit the footrest on the other side in the same way.

Spring preload

– without Dynamic ESA^{OE}

Adjustment

It is essential to set spring preload of the rear suspension to suit the load carried by the motorcycle. Increase spring preload when the vehicle is heavily loaded and reduce spring preload accordingly when the vehicle is lightly loaded.

Adjusting spring preload for rear wheel

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



WARNING

Spring preload setting and spring-strut damping setting not matched.

Impaired handling.

- Adjust spring-strut damping to suit spring preload.◀



WARNING

Adjusting spring preload while riding.

Risk of accident

- Do not attempt to adjust spring preload unless the motorcycle is at a standstill.◀
- If you want to reduce spring preload, turn knob **1** in the direction indicated by the LOW arrow.
- If you want to increase spring preload, turn knob **1** in the direction indicated by the HIGH arrow.



Basic setting of spring preload, rear

Turn the adjuster knob as far as it will go in the LOW direction. (One-up without luggage)

Turn the adjuster knob as far as it will go in the LOW direction, then turn it 15 turns in the HIGH direction. (One-up with luggage)

Turn the knob as far as it will go in the HIGH direction. (Two-up with luggage)

Damping

- without Dynamic ESA^{OE}

Adjustment

Damping must be adapted to suit the surface on which the motor-cycle is ridden and to suit spring preload.

- An uneven surface requires softer damping than a smooth surface.
- An increase in spring preload requires firmer damping, a reduction in spring preload requires softer damping.

Adjusting the damping characteristic for rear wheel

- Make sure the ground is level and firm and place the motor-cycle on its stand.
- Set the damping from the left-hand vehicle side.



- Turn knob **1** clockwise to increase damping.
- Turn knob **1** counter-clockwise to reduce damping.



Basic setting of rear-suspension damping characteristic

Turn the knob clockwise as far as it will go, then back it off 6 clicks in the counter-clockwise direction. (One-up riding without luggage)



Basic setting of rear-suspension damping characteristic

Turn the knob clockwise as far as it will go, then back it off 4 clicks in the counter-clockwise direction. (One-up with luggage)

Turn the knob clockwise as far as it will go. (Two-up with luggage)

Riding

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Parking your motorcycle	144
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Safety information

Rider's equipment

Do not ride without the correct clothing! Always wear:

- Helmet
- Motorcycling jacket and trousers
- Gloves
- Boots

This applies even to short journeys, and to every season of the year. Your authorised BMW Motorrad dealer will be glad to advise you on the correct clothing for every purpose.

Restricted angle of heel

A motorcycle with lowered suspension has less ground clearance and cannot corner at angles of heel as extreme as those achievable by a counterpart motorcycle with standard-height suspension.



WARNING

When a motorcycle with lowered suspension is cornering, certain components can come into contact with the surface at a bank angle less than that to which the rider is accustomed.

Risk of falling

- Carefully try out the limits of the motorcycle's bank angle and adapt your style of riding accordingly.◀

Test your motorcycle's angle of heel in situations that do not involve risk. When riding over kerbs and similar obstacles, bear in mind that your motorcycle's ground clearance is limited.

Lowering the motorcycle's suspension shortens suspension travel (see the section entitled "Technical Data"). Ride comfort might be restricted as a result.

Be sure to adjust the spring setting accordingly, particularly for riding two-up.

Loading



WARNING

Handling adversely affected by overloading and imbalanced loads

Risk of falling

- Do not exceed the permissible gross weight and be sure to comply with the instructions on loading.◀
- Adapt spring setting and damping adjustment to the total weight.
- Ensure that the case volumes on the left and right are equal.
- Make sure that the weight is uniformly distributed between right and left.

- Pack heavy items at the bottom and toward the inboard side.
- Note the maximum permissible payload and maximum speed for riding with cases fitted, as stated on the label inside the case (see also the chapter "Accessories").
 - with topcase^{OA}
- Note the maximum permissible payload and maximum speed for riding with topcase fitted, as stated on the label inside the topcase (see also the chapter "Accessories").
 - with tank bag, small^{OA}
- Note the maximum permissible payload and the speed limit for riding with the small tank rucksack fitted.



Payload of the tank rucksack, small

max 5 kg



Speed limit for riding with tank rucksack, small, fitted to the vehicle

max 180 km/h<

Speed

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

- Spring-strut and shock-absorber system not set up correctly
- Imbalanced load
- Loose clothing
- Insufficient tyre pressure
- Poor tyre tread
- Etc.

Risk of poisoning

Exhaust fumes contain carbon monoxide, which is colourless and odourless but highly toxic.



WARNING

Exhaust gases adversely affecting health

Risk of asphyxiation

- Do not inhale exhaust fumes.
- Do not run the engine in an enclosed space.◀

Risk of burn injury



CAUTION

Engine and exhaust system become very hot when the vehicle is in use

Risk of burn injury

- When you park the vehicle make sure that no-one and no objects can come into contact with the hot engine and exhaust system.◀

Catalytic converter

If misfiring causes unburned fuel to enter the catalytic converter, there is a danger of overheating and damage.

The following guidelines must be observed:

- Do not run the fuel tank dry.
- Do not attempt to start or run the engine with a spark-plug cap disconnected.
- Immediately stop the engine in case of misfires.
- Use only unleaded fuel.
- Comply with all specified maintenance intervals.



ATTENTION

Unburned fuel in catalytic converter

Damage to catalytic converter

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

Risk of overheating



ATTENTION

Engine running for prolonged period with vehicle at standstill

Overheating due to insufficient cooling; in extreme cases vehicle fire

- Do not allow the engine to idle unnecessarily.
- Ride away immediately after starting the engine.◀

Tampering



ATTENTION

Tampering with the motorcycle (e.g. engine management ECU, throttle valves, clutch)

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

- Do not tamper with the vehicle in any way that could result in tuned performance.◀

Comply with checklist

- At regular intervals, use the checklist below to check your motorcycle.

Always before riding off:

- Check operation of the brake system.
- Check operation of the lights and signalling equipment.
- Checking clutch function (▮▮▮ 177).
- Checking tyre tread depth (▮▮▮ 179).
- Checking tyre pressure (▮▮▮ 178).
- Check that cases and luggage are securely held in place.

At every third refuelling stop

- Checking engine oil level (➡ 171).
- Checking front brake pad thickness (➡ 173).
- Check rear brake pad thickness (➡ 174).
- Checking brake-fluid level, front brakes (➡ 175).
- Checking the brake-fluid level, rear brakes (➡ 176).
- Check coolant level (➡ 177).

Starting

Starting the engine

- Switch on the ignition.
 - » Pre-Ride-Check is performed. (➡ 137)
 - » ABS self-diagnosis is in progress. (➡ 138)
 - » ASC/DTC self-diagnosis is in progress. (➡ 139)

- Select neutral or, if a gear is engaged, pull the clutch lever.

NOTICE

You cannot start the motorcycle with the side stand extended and a gear engaged. The engine will switch itself off if you start it with the gearbox in neutral and then engage a gear before retracting the side stand.◀

- For a cold engine start and low temperatures: pull clutch.



- Press the starter button **1**.

NOTICE

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

See the subsection on jump starting in "Maintenance" for more details.◀

- » The engine starts.
- » If the engine refuses to start, consult the troubleshooting chart in the section entitled "Technical data". (➡ 220)

Pre-Ride-Check

When the ignition is switched on, the instrument cluster runs a test of the instrument dials and the indicator and warning lights known as the "Pre-Ride-Check". The test is aborted if you start the engine before it completes.

Phase 1

The speedometer needle swings to the limit value on its scale. At the same time, all the indicator and warning lights are switched on in succession. The "General" warning light shows red.

Phase 2

The speedometer needle swings to the start position on its scale. At the same time, all the indicator and warning lights switched on in the initial phase are switched off in reverse sequence. The 'General' warning light changes from red to yellow.

The malfunction indicator lamp only goes out after 15 seconds.

If the needle of the speedometer did not move or if an indicator or warning light was not switched on:



WARNING

Faulty warning lights

No indication of malfunctions

- Check all the telltale and warning lights. ◀
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad dealer.

ABS self-diagnosis

BMW Motorrad Integral ABS performs self-diagnosis to ensure its operability. Self-diagnosis is performed automatically when you switch on the ignition

Phase 1

- » Test of the diagnosable system components with the vehicle at a standstill.



ABS indicator and warning light flashes.

Phase 2

- » Test of the wheel-speed sensors as the vehicle pulls away from rest.



ABS indicator and warning light flashes.

ABS self-diagnosis completed

- » The ABS telltale and warning light goes out.
- Check all the indicator and warning lights.



ABS self-diagnosis not completed

The ABS function is not available, because self-diagnosis did not complete. (The motorcycle has to reach a defined minimum speed for the wheel speed sensors to be checked: 5 km/h)

If an indicator showing an ABS fault appears when ABS self-diagnosis completes:

- You can continue to ride. Bear in mind that neither the ABS function nor the integral braking function is available.
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad dealer.

ASC/DTC self-diagnosis

The BMW Motorrad ASC/DTC performs self-diagnosis to ensure its operability. Self-diagnosis is performed automatically when you switch on the ignition.

Phase 1

- » Test of the diagnosable system components with the vehicle at a standstill.



ASC indicator and warning light flashes slowly.

Phase 2

- » Test of the diagnosis-compatible system components while the motorcycle is on the move.



ASC indicator and warning light flashes slowly.

ASC/DTC self-diagnosis completed

- » The ASC/DTC indicator and warning light goes out.

- Check all the indicator and warning lights.



ASC/DTC self-diagnosis not completed

The ASC/DTC function is not available, because self-diagnosis did not complete. (The motorcycle has to reach a defined minimum speed for the wheel speed sensors to be checked: 5 km/h)

If an indicator showing an ASC/DTC fault appears when ASC/DTC self-diagnosis completes:

- You can continue to ride. Bear in mind that the ASC/DTC function is not available.
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Running in Engine

- Until the running-in check, vary the throttle opening and engine-speed range frequently; avoid riding at constant engine rpm for prolonged periods.
- Try to do most of your riding during this initial period on twisting, fairly hilly roads.
- Comply with the rpm limits for running in.



Running-in speeds

<5000 min⁻¹ (Odometer reading 0...1000 km)

No full load (Odometer reading 0...1000 km)

- Note the mileage after which the running-in check should be carried out.



Mileage until the running-in check

500...1200 km

Brake pads

New brake pads have to bed down before they can achieve their optimum friction levels. You can compensate for this initial reduction in braking efficiency by exerting greater pressure on the levers.



WARNING

New brake pads

Longer stopping distance, risk of accident

- Apply the brakes in good time. ◀

Tyres

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



WARNING

New tyres losing grip on wet roads and at extreme bank angles

Risk of accident

- Ride carefully and avoid extremely sharp inclines. ◀

Shifting gear

– with shift assistant Pro^{OE}

Shift assistant Pro



NOTICE

Whenever the Pro shift assistant shifts gears, cruise control

is automatically disengaged for safety reasons. ◀



- You select the gear in the usual way by means of the foot-operated shift lever.
 - » The shift assistant assists upshifts and downshifts without the rider having to pull the clutch or close the throttle.
 - This is not an automatic-shift system.
 - The rider is the most important part of the system and decides when to shift gears.
 - » The sensor **1** on the gearshift shaft registers the gearshift

request and triggers shift assistance.

- » When riding at a steady speed in a low gear at high engine rpm, an attempt to shift gear without pulling the clutch can cause a severe load-change reaction. BMW Motorrad recommends disengaging the clutch for shifts in these circumstances. It is advisable to avoid using the Pro shift assistant at engine speeds close to the limits at which the governor cuts in to limit engine rpm.
- » Shift assistance is not available in the following situations:
 - With clutch lever pulled.
 - Shift lever not in its initial position
 - Upshifts with the throttle valve closed (coasting overrun) and when decelerating.
 - When shifting down with the throttle valve open or when accelerating.

- After a gear change, the shift lever has to be fully released before another gear change with the Pro shift assistant can take place.
- » See the section "Engineering details" for more information on the Pro shift assistant:
- » Shift assistant Pro (➡ 162)

Brakes

How can stopping distance be minimised?

Each time the brakes are applied, a load distribution shift takes place with the load shifting forward from the rear to the front wheel. The sharper the vehicle decelerates, the more load is shifted to the front wheel. The higher the wheel load, the more braking force can be transmitted without the wheel locking. To optimise stopping distance, apply the front brakes rapidly and

keep on increasing the force you apply to the brake lever. This makes the best possible use of the dynamic increase in load at the front wheel. Remember to pull the clutch at the same time. In the extreme sudden-stop braking situations that are trained so frequently, braking force is applied as rapidly as possible and with the rider's full force applied to the brake levers; under these circumstances the dynamic shift in load distribution cannot keep pace with the increase in deceleration and the tyres cannot transmit the full braking force to the surface of the road.

BMW Motorrad Integral ABS prevents the front wheel from locking up.

Panic braking

If you brake sharply from a speed in excess of 50 km/h, the brake light flashes rapidly as an additional warning for road users behind you.

The hazard warning lights system switches on if you brake to below 15 km/h in this process. The hazard warning lights system automatically switches off from a speed of 20 km/h.

Descending mountain passes



WARNING

Braking only with the rear brake on mountain descents

Brake fade, destruction of the brakes due to overheating

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

Wet and dirty brakes

Wetness and dirt on the brake discs and the brake pads diminish braking efficiency.

Delayed braking action or poor braking efficiency must be reckoned with in the following situations:

- Riding in the rain or through puddles of water.
- After the vehicle has been washed.
- Riding on salted or gritted roads.
- After work has been carried on the brakes, due to traces of oil or grease.
- Riding on dirty surfaces.

WARNING

Wetness and dirt result in diminished braking efficiency

Risk of accident

- Apply the brakes lightly while riding to remove wetness and dirt, or dismount and clean the brakes.
- Think ahead and brake in good time until full braking efficiency is restored.◀

ABS Pro

– with riding modes Pro^{OE}

Physical limits applicable to motorcycling

WARNING

Braking when cornering

Risk of crash despite ABS Pro

- Invariably, it remains the rider's responsibility to adapt riding style to riding conditions.

- Do not take risks that would negate the additional safety offered by this system.◀

ABS Pro and the assisting function of the Dynamic Brake Control are available in all riding modes.

Possibility of a fall not precluded

Although ABS Pro and Dynamic Brake Control provide the rider with valuable assistance and constitutes a huge advance in safety for braking with the motorcycle banked for cornering, it cannot under any circumstances be considered as redefining the physical limits that apply to motorcycling. It is still possible for these limits to be overshoot due to misjudgement or rider error. In extreme cases this can result in a crash.

Use on public roads

ABS Pro and Dynamic Brake Control help make the motorcycle even safer for riding on public roads. When the brakes are applied because of an unforeseen hazard when the motorcycle is banked for cornering, within the physical limits that apply to motorcycling the ABS Pro system prevents the wheels from locking and skidding away. During emergency braking, Dynamic Brake Control increases the braking effect and intervenes when the throttle grip is accidentally actuated during the braking process.

NOTICE

ABS Pro was not developed to enhance individual braking performance with the motorcycle banked into corners.◀

Parking your motorcycle

Side stand

- Switch off the engine.



ATTENTION

Poor ground underneath the stand

Risk of damage to parts if vehicle topples

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



ATTENTION

Additional weight placing strain on the side stand

Risk of damage to parts if vehicle topples

- Do not sit or lean on the vehicle while it is propped on the side stand. ◀

- Extend the side stand and prop the motorcycle on the stand.
- Turn the handlebars all the way to left.
- On a gradient, the motorcycle should always face uphill; select 1st gear.

Centre stand

– with centre stand^{OE}

- Switch off the engine.



ATTENTION

Poor ground underneath the stand

Risk of damage to parts if vehicle topples

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



ATTENTION

Centre stand folds in due to sharp movements

Risk of damage to parts if vehicle topples

- Do not lean or sit on the vehicle with the centre stand extended. ◀
- Extend the centre stand and lift the motorcycle onto the stand.
- On a gradient, the motorcycle should always face uphill; select 1st gear.

Refuelling

Fuel grade

Requirement

To ensure optimal fuel consumption, fuel should be sulphur-free or as low-sulphur as possible.



ATTENTION

Engine operation with leaded fuel

Damage to catalytic converter

- Do not attempt to run the vehicle on leaded fuel or fuel

with metallic additives (e.g. manganese or iron).◀

- Observe the maximum ethanol content of the fuel.



Recommended fuel grade

E5

Super unleaded (max 15 % ethanol, E0/E5/E10/E15)

E10

95 ROZ/RON
90 AKI



Alternative fuel grade

E5

Normal unleaded (power- and consumption-related restrictions.) (max 15 % ethanol, E0/E5/E10/E15)

E10

91 ROZ/RON
87 AKI

- » Pay attention to the following symbols in the fuel filler cap and on the fuel pump:



- » After refuelling with fuels of poor-quality, sporadic knocking noises may be perceptible.

Refuelling



WARNING

Fuel is highly flammable

Risk of fire and explosion

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



WARNING

Escape of fuel due to heat-induced expansion if fuel tank is overfilled

Risk of falling

- Do not overfill the fuel tank.◀

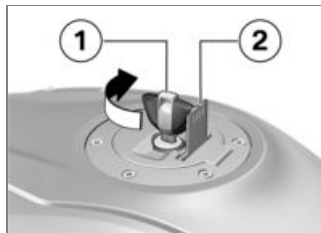


ATTENTION

Wetting of plastic surfaces by fuel

Damage to the surfaces (surfaces become unsightly or dull)

- Clean plastic surfaces immediately after contact with fuel.◀
- Make sure the ground is level and firm and place the motorcycle on its side stand.



- Open the protective cap **2**.
- Unlock the fuel tank cap by turning the ignition key **1** clockwise and open up.



- Refuel with fuel of the grade stated above; do not fill the tank past the bottom edge of the filler neck.

**NOTICE**

When refuelling after running on reserve, make sure that you top up the tank to a level above reserve, so that the new level is detected and the fuel reserve indicator light is switched off.◀

**NOTICE**

The "usable fuel capacity" specified in the technical data is the

quantity that the fuel tank could hold if refilled after it had been run dry and the engine had cut out due to a lack of fuel.◀



Fuel level

approx. 18 l



Fuel reserve

approx. 4 l

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

Refuelling

– with Keyless Ride^{OE}

Requirement

The steering lock is disengaged.

**WARNING****Fuel is highly flammable**

Risk of fire and explosion

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

**WARNING****Escape of fuel due to heat-induced expansion if fuel tank is overfilled**

Risk of falling

- Do not overfill the fuel tank.◀

**ATTENTION****Wetting of plastic surfaces by fuel**

Damage to the surfaces (surfaces become unsightly or dull)

- Clean plastic surfaces immediately after contact with fuel.◀

- 

The fuel filler cap can be opened within the defined waiting time after the ignition has been switched off, without the radio-operated key being within range.◀



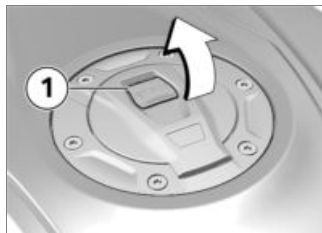
Waiting time for opening
fuel filler cap

2 min

- ## Version 1

Requirement

Within the waiting time:



- ## Version 2

Requirement

- Bring the radio-operated key into range.
- Slowly pull tab **1** up.
 - » The telltale light for the radio-operated key flashes while the search for the radio-operated key is in progress.
- Slowly pull tab **1** on the fuel filler cap up again.
 - » Fuel filler cap unlocks.
- Fully open the fuel filler cap.



- Refuel with fuel of the grade stated above; do not fill the tank past the bottom edge of the filler neck.



NOTICE

When refuelling after running on reserve, make sure that you top up the tank to a level above reserve, so that the new level is detected and the fuel reserve indicator light is switched off.◀



NOTICE

The "usable fuel capacity" specified in the technical data is the quantity that the fuel tank could hold if refilled after it had been run dry and the engine had cut out due to a lack of fuel.◀



Fuel level

approx. 18 l



Fuel reserve

approx. 4 l

- Press down firmly on the filler cap of the fuel tank.
- » The fuel filler cap engages with an audible click.
- » The fuel filler cap locks automatically when the waiting time expires.
- » The engaged fuel filler cap locks immediately when you secure the steering lock or switch on the ignition.

Securing motorcycle for transportation

- Make sure that all components that might come into contact with straps used to secure the motorcycle are adequately protected against scratching. Use adhesive tape or soft cloths, for example, for this purpose.



ATTENTION

Vehicle topples to side when being lifted on to stand

Risk of damage to parts if vehicle topples

- Secure the vehicle to prevent it toppling, preferably with the assistance of a second person.◀
- Push the motorcycle onto the transportation flat and hold it in position: do not place it on the side stand or centre stand.



ATTENTION

Trapping of components

Component damage

- Do not trap components such as brake lines or cable legs. ◀
- Guide left and right tensioning straps through the fork bridge and tension at the bottom.



- Secure the tensioning straps behind on both sides on the bracket for the rear footrest and tighten.
- Tension all tensioning straps evenly so that the motorcycle is securely fastened.

Engineering details

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General instructions

To find out more about engineering, go to:

bmw-motorrad.com/technology

Antilock Brake System (ABS)

Partially integral brakes

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

When actively intervening in the braking process, the BMW Motorrad Integral ABS adapts braking-force distribution between front and rear brakes to suit the load on the motorcycle, and so ABS intervention helps achieve the shortest possible stopping distance.



ATTENTION

Attempted burn-out despite Integral braking function

Damage to rear brake and clutch

- Do not burn out tyres.◀

How does ABS work?

The amount of braking force that can be transferred to the road depends on factors that include the coefficient of friction of the road surface. Loose stones, ice and snow or a wet road all have much lower coefficients of friction than a clean and dry asphalt surface. The lower the coefficient of friction, the longer the braking distance.

If the rider increases braking pressure to the extent that braking force exceeds the maximum transferable limit, the wheels start to lock and the vehicle loses its directional stability; a fall is imminent. Before this situation

can occur, ABS intervenes and adapts braking pressure to the maximum transferable braking force. The wheels continue to turn and the driving stability is retained irrespective of the road condition.

What are the effects of surface irregularities?

Humps and surface irregularities can cause the wheels to lose contact temporarily with the road surface; if this happens the braking force that can be transmitted to the road can drop to zero. If the brakes are applied under these circumstances the ABS has to reduce braking force to ensure that directional stability is maintained when the wheels regain contact with the road surface. At this instant the ABS must assume an extremely low coefficient of friction, so that the wheels will continue to rotate un-

der all imaginable circumstances, because this is the precondition for ensuring directional stability. As soon as it registers the actual circumstances, the system reacts instantly and adjusts braking force accordingly to achieve optimum braking.

What feedback does the rider receive from the ABS?

If the ABS has to reduce braking force on account of the circumstances described above, vibration is perceptible through the handbrake lever.

When the handbrake lever is pulled, brake pressure is also built up at the rear wheel by the integral function. If the brake pedal is depressed after the handbrake lever is pulled, the brake pressure built up beforehand is perceptible as counter-pressure sooner than is

the case when the brake pedal is depressed either before or at the same time as the brake lever is pulled.

Rear wheel lift

Under very severe and sudden deceleration, however, under certain circumstances it is possible that the ABS will be unable to prevent the rear wheel from lifting clear of the ground. If this happens the outcome can be a highsiding situation in which the motorcycle can flip over.



WARNING

Rear wheel lift due to severe braking

Risk of falling

- When you brake sharply, bear in mind that ABS control cannot always be relied on to prevent the rear wheel from lifting clear of the ground. ◀

What is the design baseline for ABS?

Within the limits imposed by physics, the ABS ensures directional stability on any surface. The system is not optimised for special requirements that apply under extreme competitive situations on the track. The driving behaviour should be adapted to actual driving skills and the road conditions.

Special situations

The speeds of the front and rear wheels are compared as one means of detecting a wheel's incipient tendency to lock. If the system registers implausible values for a lengthy period the ABS function is deactivated for safety reasons and an ABS fault message is issued. Self-diagnosis has to complete before fault messages can be issued.

In addition to problems with the BMW Motorrad ABS, exceptional riding conditions can also cause a fault message to be issued:

- Heating up with the motorcycle on the centre stand or an auxiliary stand, engine idling or with a gear engaged.
- Rear wheel locked by the engine brake for a lengthy period, for example while descending on a loose or slippery surface.

If a fault message is issued on account of exceptional riding conditions, you can reactivate the ABS function by switching the ignition off and on again.

What significance devolves on regular maintenance?



WARNING

Brake system not regularly serviced.

Risk of accident

- In order to ensure that the ABS is always maintained in optimum condition, it is essential for you to comply strictly with the specified inspection intervals. ◀

Reserves for safety

The potentially shorter braking distances which 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 when cornering

Risk of accident despite ABS

- Invariably, the rider bears responsibility for assessing road and traffic conditions and adopting his or her style of riding accordingly.

- Do not take risks that would negate the additional margin of safety offered by this system. ◀

Evolution of ABS to ABS Pro

– with riding modes Pro^{OE}

Until now, the BMW Motorrad ABS helped ensure a very high degree of safety for braking with the motorcycle upright and travelling in a straight line. Now ABS Pro offers enhanced safety for braking in corners as well. ABS Pro prevents the wheels from locking even under sharp braking. ABS Pro reduces abrupt changes in steering force, particularly in panic-braking situations, counteracting the vehicle's otherwise natural but undesirable tendency to straighten up.

ABS intervention

Technically speaking, depending on the riding situation ABS Pro adapts ABS intervention to the motorcycle's bank angle. Signals for rate of roll and rate of yaw and lateral acceleration are used to calculate bank angle.

As the motorcycle is heeled over more and more as it banks into a corner, an increasingly strict limit is imposed on the brake-pressure gradient for the start of brake application. This slows the build-up of brake pressure to a corresponding degree. Additionally, pressure modulation is more uniform across the range of ABS intervention.

Advantages for the rider

The advantages of ABS Pro for the rider are sensitive response and high braking and directional stability combined with best-case

deceleration of the motorcycle, even when cornering.

Automatic Stability Control (ASC)

How does the ASC work?

The ASC system compares the speed of rotation of the front wheel and the rear wheel. The differential is used to compute slip as a measure of the reserves of stability available at the rear wheel. If slip exceeds a certain limit, the engine control intervenes and adapts the engine torque accordingly.

What is the design baseline for the ASC?

ASC is designed as an assistance system for the rider and for use on public roads. The extent to which the rider affects ASC control can be considerable (weight shifts when corner-

ing, items of luggage loose on the motorcycle), especially when style of riding takes rider and machine close to the limits imposed by physics.

The system is not optimised for special requirements that apply under extreme competitive situations on the track. The ASC can be deactivated in these cases.

WARNING

Risky riding

Risk of accident despite ASC

- Invariably, the rider bears responsibility for assessing road and traffic conditions and adapting his or her style of riding accordingly.
- Do not take risks that would negate the additional safety offered by this system. ◀

Dynamic Traction Control (DTC)

How does Dynamic Traction Control work?

Traction control is available in two versions

- **without** provision for the bank angle: Automatic Stability Control ASC
- ASC is a rudimentary function intended to prevent falls.
- **with** provision for bank angle: Dynamic Traction Control DTC
- DTC regulation is more delicate and more comfortable thanks to the additional bank angle and acceleration information.

The Dynamic Traction Control system compares the speed of rotation at the circumferences of the front wheel and the rear wheel. The differential is used to compute slip as a measure of

the reserves of stability available at the rear wheel. If slip exceeds a certain limit, the engine management system intervenes and adapts engine torque accordingly.



WARNING

Risky riding

Risk of accident despite DTC

- Invariably, the rider bears responsibility for assessing road and traffic conditions and adopting his or her style of riding accordingly.
- Do not take risks that would negate the additional safety offered by this system. ◀

Special situations

In accordance with the laws of physics, the ability to accelerate is restricted more and more as the angle of heel increases. Consequently, there can be a per-

ceptible reduction in acceleration out of very tight bends.

The speeds of the front and rear wheels are compared and DTC, unlike ASC, also takes the bank angle into account in processing data to detect the rear wheel's incipient tendency to spin or slip sideways.

- with riding modes Pro^{OE}

If the electronic processor receives values for the bank angle that it considers implausible over a lengthy period, a dummy value is used for the bank angle or the DTC function is switched off.

Under these circumstances the indicator for a DTC fault shows. Self-diagnosis has to complete before fault messages can be issued.

The BMW Motorrad Traction Control can shut down automat-

ically under the exceptional riding conditions outlined below.

Exceptional riding conditions:

- Riding for a lengthy period with the front wheel lifted off the ground (wheelie).
- Rear wheel rotating with the vehicle held stationary by applying the front brake (burn-out).
- Heating up with the motorcycle on an auxiliary stand, in neutral or with a gear engaged.



Minimum speed for activation of DTC

min 5 km/h

If the front wheel lifts clear of the ground under severe acceleration, the ASC or DTC reduces engine torque in the **RAIN** and **ROAD** riding modes until the front

wheel regains contact with the ground.

In the DTC settings for **DYNAMIC**, and **DYNAMIC PRO**, the front wheel lift-off detection allows for short wheelies. In **RAIN**, **ROAD** and **DYNAMIC** riding modes, the DTC setting corresponds to the riding mode. In the **DYNAMIC PRO** riding mode, DTC can be set differently (➡ 87).

BMW Motorrad recommends turning the throttle grip back slightly when lifting the front wheel in order to reach a stable driving condition again as soon as possible.

When riding on a slippery surface, never snap the throttle grip fully closed without pulling the clutch at the same time. Engine braking torque can cause the rear wheel to skid, with a corresponding loss of stability. The

BMW Motorrad DTC is unable to control a situation of this nature.

Dynamic ESA

– with Dynamic ESA^{OE}

Riding position equaliser

The electronic chassis and suspension setting Dynamic ESA is able to adjust your motorcycle automatically to the load. If the spring setting is set to **Auto**, the rider does not have to change the load setting.



NOTICE

BMW Motorrad recommends the **Auto** chassis and suspension setting. ◀

When driving off and when riding, the system monitors the suspension at the rear wheel and corrects the spring setting in order to set the correct riding

position. The damping is also adjusted automatically to the load.

Via ride height sensors, Dynamic ESA detects the movements in the chassis and suspension and responds by adjusting the EDC valves. The chassis and suspension will thus be adapted to the characteristics of the terrain.

Dynamic ESA calibrates itself at regular intervals to ensure the system functions correctly.

Possible settings

Damping modes

- Road: Damping action for comfortable on-road riding
- Dynamic: Damping action for dynamic on-road riding

Load settings

- Auto: Active riding position equaliser with automatic adjustment of the spring setting and damping (recommended

chassis and suspension adjustment)

- Min: Minimum spring setting (only suitable for one-up mode)
- Max: Minimum spring setting (only suitable for two-up mode)

Riding mode

Selection

To adjust the motorcycle to the road condition and the desired driving experience, the following riding modes can be selected:

- RAIN
- ROAD (standard mode)
- with riding modes Pro^{OE}
- DYNAMIC
- DYNAMIC PRO

For each of these riding modes there is a calibrated setting for the ABS, ASC and DTC systems as well as for the throttle response.

- with Dynamic ESA^{OE}

The adjustment of the Dynamic ESA also depends on the riding mode selected.

In every riding mode, ABS and/or ASC/DTC can be switched off. The following explanations always refer to the driving safety systems that are switched on.

Throttle response

- In RAIN riding mode: Limited
- In ROAD riding mode: Direct
- In DYNAMIC and DYNAMIC PRO riding modes: dynamic
- In DYNAMIC PRO riding mode, the throttle response can be adjusted differently using the SETUP (➡ 86).

ABS

- The rear wheel lift-off detection is activated in all riding modes.
- In RAIN, ROAD, DYNAMIC and DYNAMIC PRO riding

modes, the ABS is set to on-road mode.

- with riding modes Pro^{OE}
- In RAIN, ROAD, DYNAMIC and DYNAMIC PRO riding modes, ABS Pro is fully available. The tendency of the motorcycle to straighten up when the brakes are applied with the machine banked for cornering is reduced to a minimum.

ASC

- The front wheel lift-off detection is activated in all riding modes.
- ASC is calibrated for on-road operation.
- ASC provides high driving stability in ROAD riding mode and maximum driving stability in RAIN riding mode.

- with riding modes Pro^{OE}

DTC

Tyres

- In the DTC settings for RAIN, ROAD and DYNAMIC, DTC is calibrated to on-road mode with road tyres.

Driving stability

- In the DTC setting for RAIN, DTC intervenes early enough to achieve maximum driving stability.
- In the DTC setting for ROAD, DTC intervenes later than in the RAIN riding mode. This prevents the rear wheel from spinning whenever possible.
- In the DTC settings for RAIN and ROAD, the front wheel is prevented from lifting.
- In the DTC setting for DYNAMIC, DTC intervenes later than in the DTC setting for ROAD, meaning that the motorcycle may drift slightly

when coming out of the corner or do short wheelies.

In RAIN, ROAD and DYNAMIC riding modes, the DTC setting corresponds to the riding mode. In DYNAMIC PRO riding mode, the DTC can be set differently (► 87).

Mode changes

The riding mode can be changed while the vehicle is stationary with the ignition on. It is possible to change it while driving under the following conditions:

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

The following steps must be taken to change the riding mode:

- Close the throttle twistgrip.
- Release the brake levers.

- Deactivate the cruise control.

The desired riding mode is initially preselected. The mode change does not take place until the systems in question are all in the appropriate state.

The selection menu does not disappear from the display until the mode change has taken place.

Dynamic Brake Control

- with riding modes Pro^{OE}

Dynamic Brake Control function



NOTICE

The Dynamic Brake Control function is active in all riding modes when the ABS is switched on. ◀

The Dynamic Brake Control function assists the rider during emergency braking.

Detection of emergency braking

- Emergency braking is detected when the front brake is actuated quickly and forcefully.

Behaviour during emergency braking

- If emergency braking is initiated at a speed above 10 km/h, the Dynamic Brake Control takes effect in addition to the ABS function.
- If partial braking at high brake pressure gradients is initiated, the Dynamic Brake Control increases the integral brake pressure on the rear wheel. The stopping distance shortens and controlled braking is possible.

Behaviour during accidental actuation of the throttle grip

- If, during emergency braking, the throttle grip is accidentally actuated (grip position > 5 %), the actual braking effect caused by the Dynamic Brake Control is guaranteed by closing the gas. The effect of emergency braking is guaranteed.
- If, during the intervention of the Dynamic Brake Control, the gas is closed (throttle grip position < 5 %), the engine torque requested by the ABS brake system is restored.
- If emergency braking finishes and the throttle grip is still actuated, the Dynamic Brake Control will reduce the engine torque to the driver's choice in a controlled manner.



NOTICE

The function of the Dynamic Brake Control is switched off at the same time as the ABS is switched off. ◀

Tyre pressure control (RDC)

- with tyre pressure control (RDC)^{OE}

Function

A sensor integrated into each tyre measures the air temperature and the air pressure inside the tyre and transmits this information to the control unit. Each sensor has a centrifugal-force tripswitch that does not enable transmission of the measured values until the motorcycle has exceeded a defined minimum speed for the first time.



Minimum speed for transmission of the RDC measured values:

min 30 km/h

The display shows "--" for each tyre until the tyre-pressure signal is received for the first time. The sensors continue to transmit the measured-value signals for some time after the vehicle comes to a stop.



Time for transmission of measured values after vehicle comes to a stop:

min 15 min

An error message is issued if wheels without sensors are fitted to a vehicle equipped with an RDC control unit.

Tyre pressure ranges

The RDC control unit differentiates between three tyre-pressure ranges, all of which are parameterised for the motorcycle:

- Tyre pressure within permitted tolerance.
- Tyre pressure close to limit of permitted tolerance.
- Tyre pressure outside permitted tolerance.

Temperature compensation

Tyre pressure is a temperature-sensitive variable: pressure increases as tyre-air temperature rises and decreases as tyre-air temperature drops. Tyre-air temperature depends on ambient temperature as well as on the style of riding and the duration of the ride.



The tyre pressures are shown in the TFT display as temperature compensated and always refer to the following tyre air temperature:

20 °C

The air lines available to the public in petrol stations and motorway service areas have gauges that do not compensate for temperature; the reading shown by a gauge of this nature is the temperature-dependent tyre-air pressure. As a result, the values displayed there usually do not correspond to the values displayed in the TFT display.

Pressure adaptation

Compare the RDC value on the TFT display with the value in the table on the back cover of the Rider's Manual. Then use the air-line gauge at a service station

to compensate for the difference between the RDC reading and the value in the table.



Example

According to the Rider's Manual, the tyre pressure should be the following value:

2.5 bar

The following display is shown in the TFT display:

2.3 bar

Missing:

0.2 bar

The tester on the filling station shows:

2.4 bar

The tyre pressure must be increased to the following value to reach the correct tyre pressure:



Example

2.6 bar

Shift assistant

– with shift assistant Pro^{OE}

Shift assistant Pro

Your vehicle is equipped with a Pro shift assistant, a system originally developed for racing and now adapted for touring. It permits upshifts and downshifts without declutching or closing the throttle in virtually all load and rpm ranges.

Advantages

- 70-80 % of all gearshifts on a trip can be done without using the clutch.
- Less relative movement between rider and passenger

because the shift pauses are shorter.

- It is not necessary to close the throttle valve when shifting under acceleration.
- When braking and downshifting (throttle valve closed), engine speed is adjusted by blipping the throttle.
- Shift time is shorter than a gearshift with clutch actuation.

In order for the system to identify a gearshift request, the rider has to move the gearshift lever from its idle position in the desired direction against the spring force through a certain "over-travel" at ordinary speed or rapidly and keep the gearshift lever in this position until the gearshift is completed. It is not necessary to increase the force applied to the shift lever while shifting is in progress. Once the gearshift has completed the shift lever has to

be fully released before another gearshift with the Pro shift assistant can take place. When shifting gears with the Pro shift assistant, the rider has to keep load state (throttle grip position) constant before and during the gearshift. A change in the position of the throttle grip during a gearshift can cause the function to abort and/or lead to a missed shift. The Pro shift assistant provides no assistance for the gearshift if the rider declutches.

Downshifting

- Downshifting is assisted until maximum rpm for the target gear to be selected is reached. This prevents overrevving.



Maximum engine speed

max 9000 min⁻¹

Upshifting

- Upshifting is only possible when the current speed is higher than the respective release threshold of the next higher gear.
- This prevents the engine from dropping below idle speed.



Idle speed

1050 min⁻¹ (Engine at regular operating temperature)



Release thresholds

1st gear

min 1350 min⁻¹

2nd gear

min 1400 min⁻¹

3rd gear

min 1450 min⁻¹

4th gear

 Release thresholds
min 1500 min ⁻¹
5th gear
min 1550 min ⁻¹
6th gear
min 1600 min ⁻¹

Hill Start Control

Hill Start Control function

Hill Start Control assistant prevents the motorcycle from rolling backwards uncontrolled on gradients by intervening specifically with the ABS brake system without the driver having to constantly operate the brake lever. Pressure in the rear brake system is built up when Hill Start Control is activated in order to keep the motorcycle stationary on an incline.

The brake pressure in the brake system is dependent on the gradient.

Effect of an incline on brake pressure and drive-off behaviour

- If the motorcycle is stopped on a gentle incline, only low brake pressure is built up. In this case, the brakes are quickly released when driving off. The motorcycle can be moved off more gently. It is not necessary to turn the throttle grip again.
- If the motorcycle is stopped on a steep incline, high brake pressure is built up. In this case, the brakes take longer to release when driving off. More torque is required for driving off which also requires the rider to turn the throttle grip again.

Behaviour when the motorcycle rolls or slips

- If the motorcycle rolls when Hill Start Control is activated, the brake pressure is increased.
- If the rear wheel slips, the brake is released again after approx. 1 m. This prevents, for example, slipping due to a blocked rear wheel.

Releasing brake when stopping the engine or timeout

Hill Start Control is deactivated when the engine is stopped using the emergency-off switch, when the side stand is folded out or after timeout (10 minutes). In addition to the indicator and warning lights, the rider should be made aware that Hill Start Control has been deactivated by the following behaviour:

Brake warning jolt

- The brake is released briefly and reactivated immediately.
- This creates a jolt which the rider feels.
- The ABS brake system with partially integral function sets a speed of approx. 1-2 km/h.
- The rider must brake the motorcycle manually.
- After two minutes, or when the brake is actuated, Hill Start Control is completely deactivated.



NOTICE

The holding pressure is released immediately without a brake warning jolt as soon as the ignition is switched off. ◀

Maintenance

General instructions.....	168
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General instructions

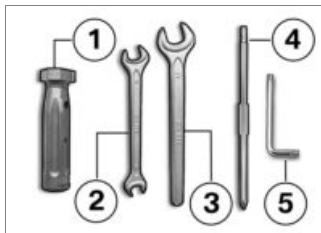
The "Maintenance" chapter describes straightforward procedures for checking and replacing certain wear parts.

Special tightening torques are listed as applicable. The tightening torques for the threaded fasteners on your vehicle are listed in the section entitled "Technical data".

You will find information on more extensive maintenance and repair work in the Repair Manual on DVD for your vehicle, which is available from your authorised BMW Motorrad Retailer.

Some of the work calls for special tools and a thorough knowledge of the technology involved. If you are in doubt, consult a specialist workshop, preferably your authorised BMW Motorrad Retailer.

Tool kit

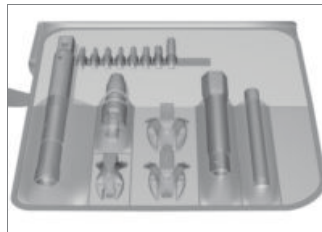


- 1** Screwdriver handle
 - Use with screwdriver insert
 - Topping up the engine oil (➡ 172).
- 2** Open-ended spanner
Width across flats 8/10
 - Removing battery (➡ 193).
- 3** Open-ended spanner
Width across flats 14
- 4** Reversible screwdriver blade
Phillips PH1 and Torx T25

- 4**
 - Removing bulbs for front and rear turn indicators (➡ 188).
 - Repositioning windscreen (➡ 125).
- 5** Torx wrench, T40

Service tool kit

– with service toolkit^{OA}



BMW Motorrad has put together a service tool set suitable for your motorcycle for more advanced service operations (e.g. removing and refitting the wheels). This tool set is

available from your authorised BMW Motorrad Retailer.

Front-wheel stand

Installing the front-wheel stand



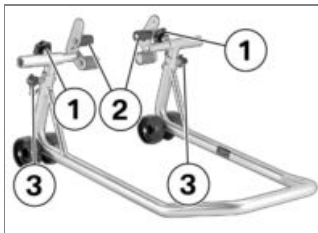
ATTENTION

Use of the BMW Motorrad front-wheel stand without also using the auxiliary stand

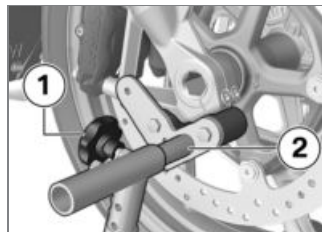
Risk of damage to parts if vehicle topples

- Place the motorcycle on an auxiliary stand before lifting the front wheel with the BMW Motorrad front-wheel stand.◀
- Place the motorcycle on a suitable auxiliary stand.
 - with centre stand ^{OE}
- Make sure the ground is level and firm and place the motorcycle on its centre stand.◀

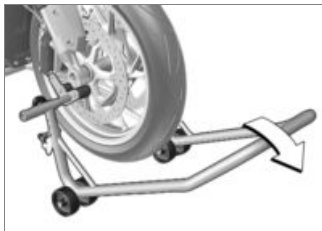
- Use basic stand with front-wheel adapter. The basic stand and its accessory parts are available from your BMW Motorrad dealer.



- Loosen the mounting bolts **1**.
- Push the two adapters **2** apart until the front forks fit between them.
- Use retaining pins **3** to set the front-wheel stand to the desired height.
- Centre the front-wheel stand relative to the front wheel and push it against the front axle.



- Align the two adapters **2** so that the front forks are securely seated.
- Tighten mounting bolts **1**.



- Apply uniform pressure to push the front-wheel stand down and raise the motorcycle.

– with centre stand^{OE}



ATTENTION

Centre stand retracts if the vehicle lifted too high

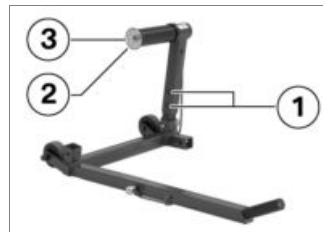
Risk of damage to parts if vehicle topples

- When raising the vehicle, make sure that the centre stand remains on the ground.
- If necessary, adjust the height of the front-wheel stand.◀

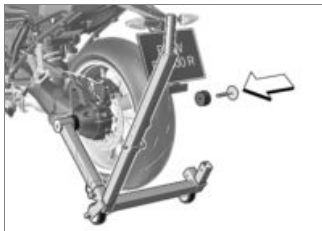
- Make sure the motorcycle is standing firmly.◀

Rear-wheel stand Install the rear-wheel stand

- Make sure the ground is level and firm and place the motorcycle on its stand.
- Use basic stand with rear axle adapter. The basic stand and its accessory components are available from your BMW Motorrad authorised dealer.



- Use screws **1** to set the rear-wheel stand to the desired height.
- Remove retaining disc **2**. To do so, press release button **3**.



- Push the rear-wheel stand from the right onto the rear axle.
- Push the retaining disc on from the left, while holding the unlock button down.



- Hold the motorcycle upright and at the same time press the

handle of the stand back until both rollers of the stand are on the ground.

- Then press the handle down to the ground.

Engine oil

Checking engine oil level



NOTICE

Incorrect interpretation of the oil capacity is possible because the oil level is temperature-dependent. ◀

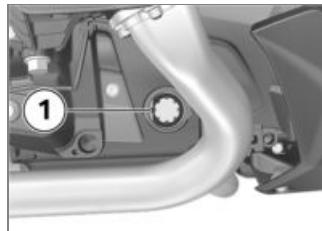
- Let engine idle until the fan turns on.
- Switch off the engine when it is at operating temperature.
- Wait five minutes for the oil to drain into the oil pan.



NOTICE

To protect the environment, BMW Motorrad recommends

occasionally checking the engine oil after a journey of at least 50 km. ◀



- Check the oil level in the display **1**.



Engine oil, specified level

Between MIN and MAX marks

If the oil level is below the MIN mark:

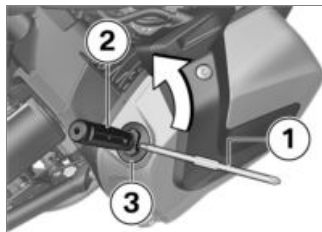
- Topping up the engine oil (► 172).

If the oil level is above the MAX mark:

- Have the oil level corrected by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Topping up the engine oil

- Place the motorcycle on its stand on firm, even ground.



- Wipe the area around the oil filler opening clean.
- Insert Torx end of reversible screwdriver insert **1** into screwdriver handle **2** (toolkit) for additional leverage.
- Engage this tool in cap **3** of the oil filler opening and turn anti-clockwise to remove.
- Checking engine oil level (► 171).



ATTENTION

Use of insufficient engine oil or too much engine oil

Engine damage

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



Engine oil, quantity for topping up

max 0.8 l (Difference between MIN and MAX)

- Checking engine oil level (► 171).
- Install cap **3** of the oil filler opening.

Brake system

Checking function of brakes

- Pull the front brake lever.

» The pressure point must be clearly perceptible.

- Press the footbrake lever.

» The pressure point must be clearly perceptible.

If the pressure point is not clearly perceptible:



ATTENTION

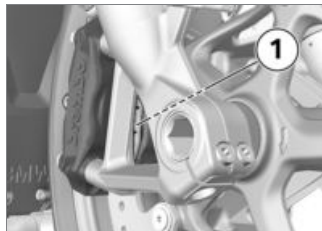
Work on brake system not in compliance with correct procedure

Risk to operational reliability of the brake system

- Have all work on the brake system undertaken by trained and qualified specialists. ◀
- Have the brakes checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Checking front brake pad thickness

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



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



 Brake-pad wear limit, front

1.0 mm (Friction pad only, without backing plate. The wear indicators (grooves) must be clearly visible.)

If the wear indicating marks are no longer clearly visible:



WARNING

Brake-pad thickness less than permissible minimum

Diminished braking effect, damage to the brakes

- In order to ensure the dependability of the brake system, do not permit the brake pads to wear past the minimum permissible thickness. ◀
- Have the brake pads replaced by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Check rear brake pad thickness

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



- Visually inspect the brake pads to ascertain their thickness. Viewing direction: From the rear toward brake pads **1**.



Brake-pad wear limit,
rear

1.0 mm (Friction pad only,
without backing plate)

If the wear limit has been reached:

WARNING

Brake-pad thickness less than permissible minimum

Diminished braking effect, damage to the brakes

- In order to ensure the dependability of the brake system, do not permit the brake pads to wear past the minimum permissible thickness.◀
- Have the brake pads replaced by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Checking brake-fluid level, front brakes

WARNING

Not enough brake fluid in brake fluid tank

Considerably reduced braking power due to air in the brake system

- Adjust the riding mode immediately until the fault is rectified.
- Check the brake-fluid level at regular intervals.◀
- Make sure the ground is level and firm and hold the motorcycle upright.
 - with centre stand^{OE}
- Make sure the ground is level and firm and place the motorcycle on its centre stand.◀
- Turn the handlebars to a position in which the brake fluid reservoir is horizontal.



- Check the brake fluid level in the brake fluid tank front **1**.



NOTICE

Wear of the brake pads causes the brake fluid level in the reservoir to sink.◀



Brake fluid level, front

Brake fluid, DOT4

It is impermissible for the brake fluid level to drop below the MIN mark. (Brake-fluid reservoir horizontal, motorcycle upright)

If the brake fluid level drops below the permitted level:

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

Checking the brake-fluid level, rear brakes

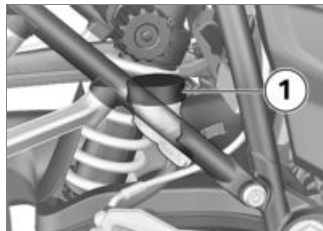


WARNING

Not enough brake fluid in brake fluid tank

Considerably reduced braking power due to air in the brake system

- Adjust the riding mode immediately until the fault is rectified.
- Check the brake-fluid level at regular intervals.◀
- Make sure the ground is level and firm and hold the motorcycle upright.
- with centre stand^{OE}
- Make sure the ground is level and firm and place the motorcycle on its centre stand.◀



- Check the brake fluid level in the brake fluid tank rear **1**.



NOTICE

Wear of the brake pads causes the brake fluid level in the reservoir to sink.◀



Brake fluid level, rear

Brake fluid, DOT4

It is impermissible for the brake fluid level to drop below the MIN mark. (Brake-fluid reservoir horizontal, motorcycle upright)

If the brake fluid level drops below the permitted level:

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

Clutch

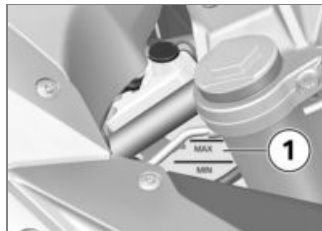
Checking clutch function

- Pull the clutch lever.
 - » The pressure point must be clearly perceptible.
- If the pressure point is not clearly perceptible:
- Have the clutch checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Coolant

Check coolant level

- Make sure the ground is level and firm and hold the motorcycle upright.
 - with centre stand ^{OE}
- Make sure the ground is level and firm and place the motorcycle on its centre stand. [◀]



CAUTION

Hot engine

Risk of burn injury

- Keep ell clear of all hot engine components.
- Do not touch hot engine components. [◀]
- Check the coolant level in expansion tank **1**.
 - » The coolant level must be between the MIN and MAX marks.

If the coolant level drops below the MIN mark:

- Top up the coolant.

Top up coolant



- Open cap **1** of the coolant expansion tank and top up the coolant to the specified level.
- » The coolant level is between the MIN and MAX marks.
- Close cap **1**.

Tyres

Checking tyre pressure



WARNING

Incorrect tyre pressure

Impaired handling characteristics of the motorcycle, shorter useful tyre life

- Always check that the tyre pressures are correct. ◀



WARNING

Tendency of valve inserts installed vertically to open by themselves at high riding speeds

Sudden loss of tyre pressure

- Install valve caps fitted with rubber sealing rings and tighten firmly. ◀
- Make sure the ground is level and firm and place the motorcycle on its stand.

- Check tyre pressures against the data below.



Tyre pressure, front

2.5 bar (One-up, with cold tyre)

2.5 bar (Two-up mode with load, with cold tyres)

2.5 bar (for sporting events)



Tyre pressure, rear

2.9 bar (One-up, with cold tyre)

2.9 bar (Two-up mode with load, with cold tyres)

2.9 bar (for sporty use)

If tyre pressure is too low:

- Correct tyre pressure.

Rims and tyres

Checking rims

- Make sure the ground is level and firm and place the motorcycle on its stand.
- Visually inspect the rims for defects.
- Have any damaged rims inspected by a specialist workshop and replaced if necessary, preferably by an authorised BMW Motorrad dealer.

Checking tyre tread depth



WARNING

Riding with badly worn tyres

Risk of accident due to impaired handling

- If applicable, have the tyres changed in good time before they wear to the minimum tread depth permitted by law. ◀

- Make sure the ground is level and firm and place the motorcycle on its stand.
- Measure the tyre tread depth in the main tread grooves with wear marks.



NOTICE

Wear indicators are built into the main profile grooves on each tyre. The tyre is worn out when the tyre tread has worn down to the level of the marks. The locations of the marks are indicated on the edge of the tyre, e.g. by the letters TI, TWI or by an arrow. ◀

If the tyre tread is worn to minimum:

- Replace tyre or tyres, as applicable.

Wheels

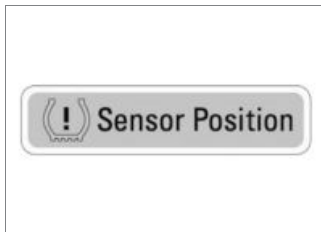
Effect of wheel size on chassis and suspension control systems

Wheel size is very important as a parameter for the frame and suspension control systems ABS and ASC/DTC. In particular, the diameter and the width of the vehicle's wheels are programmed into the control unit and are fundamental to all calculations. Any change in these influencing variables, caused for example by a switch to wheels other than those installed ex-works, can have serious effects on the performance of the control systems. The sensor rings are essential for correct road-speed calculation, and they too must match the motorcycle's control systems and consequently cannot be changed.

If you decide that you would like to fit non-standard wheels to your motorcycle, it is very important to consult a specialist workshop beforehand, preferably an authorised BMW Motorrad dealer. In some cases, the data programmed into the control units can be changed to suit the new wheel sizes.

RDC sticker

- with tyre pressure control (RDC)^{OE}



ATTENTION

Tyre removal not in compliance with correct procedure

Damage to RDC sensors

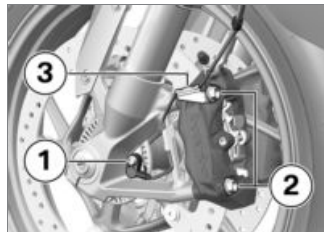
- Be sure to explain to the specialist workshop or authorised BMW Motorrad dealer that the wheel is fitted with an RDC sensor. ◀

An appropriate sticker will be found on the rim at the position of the RDC sensor on motorcycles fitted with RDC. Take care that the RDC sensor is not damaged when the tyre is

changed. Draw the attention of your BMW Motorrad retailer or the specialist workshop to the RDC sensor.

Removing front wheel

- Make sure the ground is level and firm and hold the motorcycle upright.
- with centre stand^{OE}
- Make sure the ground is level and firm and place the motorcycle on its centre stand. ◀



- Remove bolt **1** and remove the wheel speed sensor from its bore.

- Mask off the parts of the wheel rim that could be scratched in the process of removing the brake calipers.

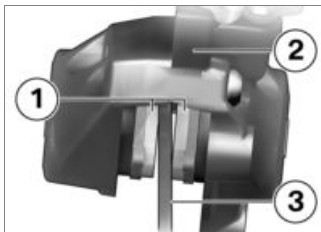


ATTENTION

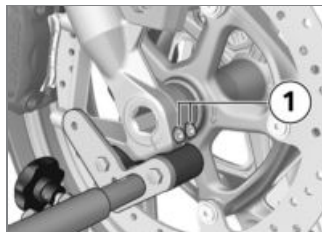
Unwanted inward movement of the brake pads

Component damage on attempt to install the brake caliper or because brake pads have to be forced apart

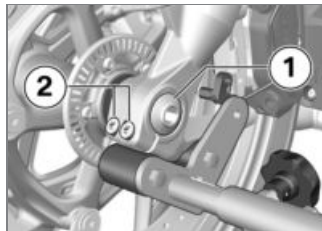
- Do not operate the brakes with a brake caliper not correctly secured.◀
- Remove mounting bolts **2** of the left and right brake calipers and remove holding clip **3**.



- Force the brake pads **1** slightly apart by rotational movement of the brake caliper **2** against brake disc **3**.
- Carefully ease the brake calipers back and out until clear of the brake discs.
- Lift the front of the motorcycle until the front wheel is clear of the ground, preferably using a BMW Motorrad front-wheel stand.
- Installing the front-wheel stand (➡ 169).

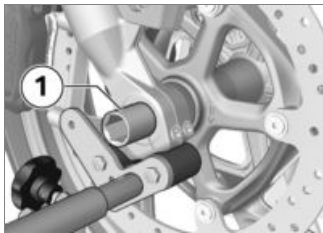


- Slacken axle clamping screws **1**.

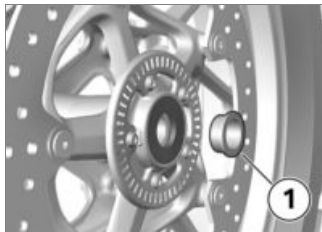


- Remove screw **1**.
- Slacken axle clamping screws **2**.
- Press quick-release axle slightly toward the inside, so as to be

better able to grip it on the right-hand side.



- Withdraw quick-release axle **1**, support the front wheel when doing this.
- Set down front wheel and roll forwards out of the front suspension.



- Remove spacer bush **1** from the wheel hub.

Installing front wheel



WARNING

Use of a non-standard wheel

Malfunctions during ABS and ASC/DTC intervention

- See the information on the effect of wheel size on the ABS and ASC/DTC systems at the start of this chapter.◀

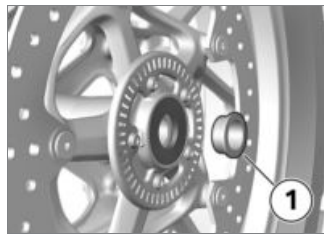


ATTENTION

Tightening threaded fasteners to incorrect tightening torque

Damage, or threaded fasteners work loose

- Always have the security of the fasteners checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.◀



- Slip spacing bushing **1** into the wheel hub on the left-hand side.

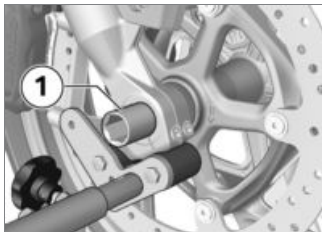


ATTENTION

Front wheel installed wrong way round

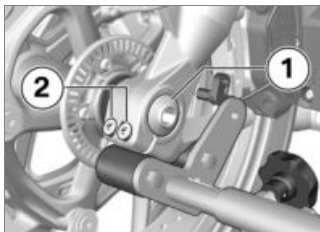
Risk of accident

- Note direction-of-rotation arrows on tyre or rim. ◀
- Roll the front wheel into position between the front forks.



- Lift front wheel and fit quick-release axle **1**.
- Remove front-wheel stand and firmly compress front forks several times. Do not operate front brake lever.

- Installing the front-wheel stand (→ 169).



- Install screw **1** and tighten to specified torque. Counter-hold quick-release axle on the right-hand side.

 Quick-release axle in telescopic forks

50 Nm

- Tighten axle clamping screws **2** to the specified tightening torque.



 Clamping screw for quick-release axle in telescopic fork

Tightening sequence: Tighten screws six times in alternate sequence

19 Nm



- Tighten axle clamping screws **1** to the specified tightening torque.

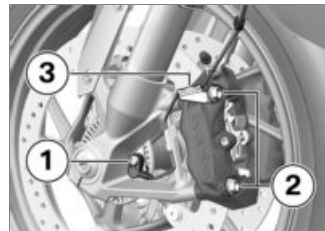


 Clamping screw for quick-release axle in telescopic fork

Tightening sequence: Tighten screws six times in alternate sequence

19 Nm

- Removing the front-wheel stand.
- Position left and right brake callipers on the brake discs.



- Install holding clip **3** on left and mounting bolts **2** on left and right and tighten to the specified torque.

 Brake caliper on the telescopic forks

38 Nm

- Remove the adhesive tape from the wheel rim.

⚠ WARNING

Brake pads not lying against the brake disc

Risk of accident due to delayed braking effect.

- Before driving, check that the brakes respond without delay.◀
- Operate the brake several times until the brake pads are bedded.
- Seat the cable for the wheel speed sensor in holding clip **3**.
- Insert the wheel speed sensor into the bore hole and install bolt **1**.



Wheel-speed sensor to fork leg

Joining compound: Micro-encapsulated or medium-strength thread-locking compound

8 Nm

Removing rear wheel

- Removing silencer (→ 186).



- Engage first gear.
- Remove studs **1** from the rear wheel, while supporting the wheel.
- Roll the rear wheel out toward the rear.

Installing the rear wheel

⚠ WARNING

Use of a non-standard wheel

Malfunctions during ABS and ASC/DTC intervention

- See the information on the effect of wheel size on the ABS and ASC/DTC systems at the start of this chapter.◀



ATTENTION

Tightening threaded fasteners to incorrect tightening torque

Damage, or threaded fasteners work loose

- Always have the security of the fasteners checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.◀
- Seat the rear wheel on the rear-wheel adapter.



- Install wheel studs **1** and tighten to specified torque.



Rear wheel to wheel flange

Tightening sequence: tighten in diagonally opposite sequence

60 Nm

- Install the silencer (→ 187).

Silencer

Removing silencer

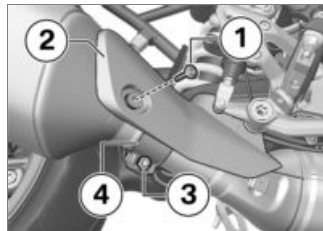


CAUTION

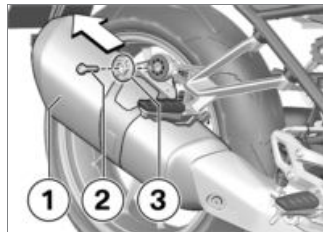
Hot exhaust system

Risk of burn injury

- Do not touch a hot exhaust system.◀
- Allow rear silencer to cool down.
- Make sure the ground is level and firm and place the motorcycle on a suitable auxiliary stand; BMW Motorrad recommends the BMW Motorrad rear-wheel stand.
- Install the rear-wheel stand (→ 170).
 - with centre stand^{OE}
- Make sure the ground is level and firm and place the motorcycle on its centre stand.◀



- Remove the bolt **1** from the cover **2**.
- Remove the bolt **3** from the clamp **4**.



- Remove the bolt **3** and washer **2**.

- Remove the silencer **1**.
- with HP Sports silencer^{OE}

⚠ CAUTION

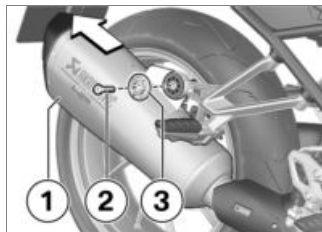
Hot exhaust system

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- Allow rear silencer to cool down.
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- Install the rear-wheel stand (→ 170).
- with centre stand^{OE}
- Make sure the ground is level and firm and place the motorcycle on its centre stand.◀

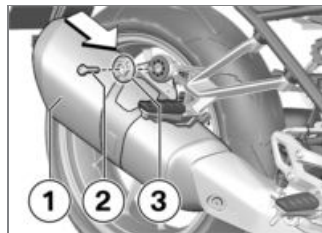


- Loosen nut **1** to slide the clamp **2** back.



- Remove the bolt **3** and washer **2**.
- Remove the silencer **1**.◀

Install the silencer

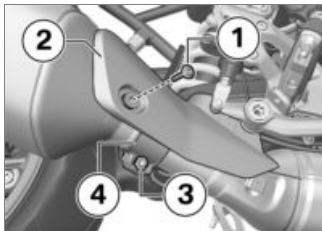


- Slip clamp onto the silencer.
- Push on the silencer **1** until seated.
- Fit shim **3** and screw **2**.



Silencer to rear frame

19 Nm



- Tighten the nut **3** of the clamp **4**.



Clamp to silencer and exhaust manifold

22 Nm

- Fit the bolt **1** of the cover **2**.

– with HP Sports silencer^{OE}

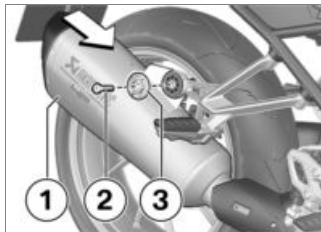


ATTENTION

Tightening threaded fasteners to incorrect tightening torque

Damage, or threaded fasteners work loose

- Always have the security of the fasteners checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.◀



- Slip clamp onto the silencer.
- Push on the silencer **1** until seated.
- Fit shim **3** and screw **2**.



Silencer to rear frame

19 Nm



- Tighten the nut **1** of the clamp **2**.



Clamp to silencer and exhaust manifold

22 Nm◀

Lighting

Replacing bulbs for front and rear turn indicators

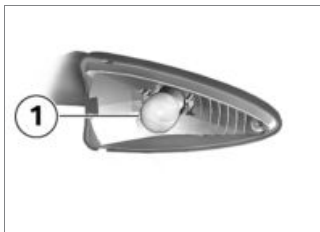
- Place the motorcycle on its stand on firm, even ground.
- Switch off the ignition.



- Remove screw **1**.



- Pull the glass out of the light housing at the threaded-fastener side.



- Use a clean, dry cloth to hold the bulb in order to keep the glass free of foreign matter.
- Turn bulb **1** counter-clockwise and remove it from the light housing.
- Replace the defective bulb.



Bulbs for flashing turn indicators, front

RY10W / 12 V / 10 W

– with LED flashing turn indicator^{OE}

LED<

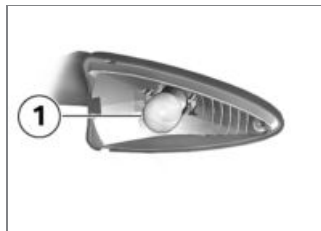


Bulbs for flashing turn indicators, rear

RY10W / 12 V / 10 W

– with LED flashing turn indicator^{OE}

LED<



- Turn bulb **1** clockwise to install it in the light housing.



- Working from the inboard side, insert the glass into the light housing and close the housing.



- Install screw **1**.

Replacing LED rear light

The LED rear light can be replaced only as a complete unit.

- Consult a specialist workshop, preferably an authorised BMW Motorrad dealer.

Replacing LED turn indicators

- with LED flashing turn indicator^{OE}

LED turn indicators can be replaced only as a complete unit.

- Consult a specialist workshop, preferably an authorised BMW Motorrad dealer.

Replacing the LED headlight

- LED headlights can only be replaced as a complete unit. Consult a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Replacing LED auxiliary headlights

- with LED additional headlight^{OA}

The LED auxiliary headlights can only be replaced as a unit; it is not possible to replace individual LEDs.

Consult a specialist workshop, preferably an authorised BMW Motorrad dealer.

Jump-starting



ATTENTION

Excessive current flowing when the motorcycle is jump-started

Wiring smoulders/ignites or damage to the on-board electronics

- If the motorcycle has to be jump-started connect the leads to the battery terminals; never attempt to jump-start the en-

gine by connecting leads to the on-board socket.◀



ATTENTION

Contact between crocodile clips of jump leads and vehicle

Risk of short-circuit

- Use jump leads fitted with fully insulated crocodile clips at both ends.◀



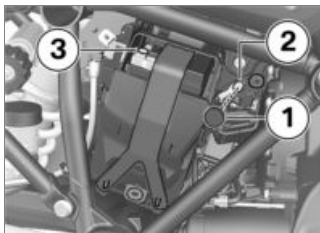
ATTENTION

Jump-starting with a voltage greater than 12 V

Damage to the on-board electronics

- Make sure that the battery of the donor vehicle has a voltage rating of 12 V.◀
- Place the motorcycle on its stand on firm, even ground.
- Removing battery cover (111 ➔ 193).

- When jump-starting the engine, do not disconnect the battery from the on-board electrical system.



- Remove the protective cap **1**.
- Use the red jump lead to connect the positive battery connection point **2** of the drained battery to the positive terminal of the donor battery.
- Then connect one end of the black jump lead to the negative terminal of the donor battery, and the other end to the negative terminal **3** of the drained battery.

- Run the engine of the donor vehicle during jump-starting.
- Start the engine of the vehicle with the discharged battery in the usual way; if the engine does not start, wait a few minutes before repeating the attempt in order to protect the starter motor and the donor battery.
- Allow both engines to idle for a few minutes before disconnecting the jump leads.
- Disconnect the jump lead from the negative terminals first, then disconnect the second lead from the positive terminals.



NOTICE

Do not use proprietary start-assist sprays or other products to start the engine.◀

- Install the protective cap.

- Installing the battery cover (195).

Battery

Maintenance instructions

Correct upkeep, recharging and storage will prolong the life of the battery and are essential if warranty claims are to be considered.

Compliance with the points below is important in order to maximise 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

On-board electronics (e.g. clock) draining connected battery

Battery is deep-discharged; this voids the guarantee

- Connect a float charger to the battery if the motorcycle is to remain out of use for more than four weeks.◀



NOTICE

BMW Motorrad has developed a float charger specially designed for compatibility with the electronics of your motorcycle. Using this charger, you can keep the battery charged during long periods of disuse, without having to disconnect the battery from the motorcycle's on-board systems. You can obtain additional information from your authorised BMW Motorrad dealer.◀

Charge battery when connected



ATTENTION

Charging the battery that is connected to the vehicle via the battery terminals

Damage to the on-board electronics

- Disconnect the battery at the battery terminals before charging.◀



ATTENTION

Recharging a fully discharged battery via the power socket or extra socket

Damage to the vehicle electronics

- If a battery has discharged to the extent that it is completely flat (battery voltage less than 12 V, indicator lights and multifunction display remain off when the ignition is switched

on) always charge the **disconnected** battery with the charger connected directly to the battery terminals.◀

ATTENTION

Unsuitable chargers connected to a socket

Damage to charger and vehicle electronics

- Use suitable BMW chargers. The suitable charger is available from your authorised BMW Motorrad dealer.◀
- Charge via the charging socket, with the battery connected to the motorcycle's on-board electrical system.

NOTICE

The motorcycle's on-board electronics know when the battery is fully charged. The on-board socket is switched off when this happens.◀

- Comply with the operating instructions of the charger.

NOTICE

If you are unable to charge the battery through the on-board socket, you may be using a charger that is not compatible with your motorcycle's electronics. In this case, directly charge the battery at the terminals of the battery that has been disconnected from the vehicle.◀

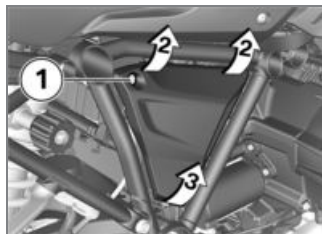
Charge battery when disconnected

- Charge the battery using a suitable charger.
- Comply with the operating instructions of the charger.
- Once the battery is fully charged, disconnect the charger's terminal clips from the battery terminals.

NOTICE

The battery has to be recharged at regular intervals in the course of a lengthy period of disuse. See the instructions for caring for your battery. Always fully recharge the battery before restoring it to use.◀

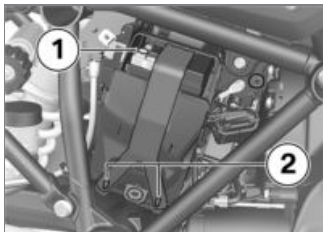
Removing battery



- Switch off the ignition.
- Remove bolt **1**.
- Pull the battery cover slightly forward at the top at positions **2**.

- In order not to damage the battery cover or the mounting, work the battery cover up at position **3** to remove.

- with anti-theft alarm (DWA)^{OE}
- If applicable, switch off the anti-theft alarm.◀



- Disconnect battery earth lead **1** and disengage rubber strap **2**.



- Pull retaining panel in position **1** outwards and remove in an upward direction.
- Slightly lift the battery and ease it clear of the holder until the battery positive terminal is accessible.



- Disconnect battery negative lead **1** and remove the battery.

Installing battery

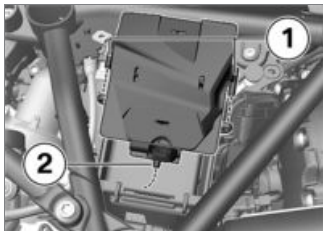


NOTICE

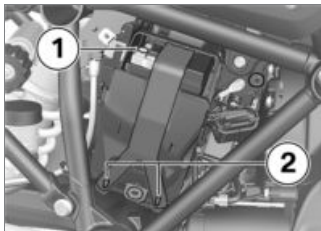
The fuse for the alternator regulator can blow if the 12 V battery is installed incorrectly or if the terminals are swapped (e.g. when using a starting aid).◀



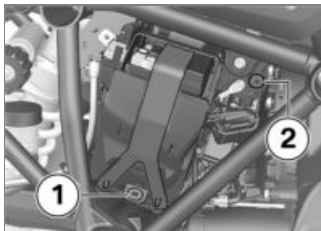
- Secure positive battery cable **1**.
- Push battery into the mounting.



- First insert retaining plate into the mountings **1** and then push under the battery in position **2**.



- Secure negative battery cable **1**.
- Secure the battery with rubber strap **2**.



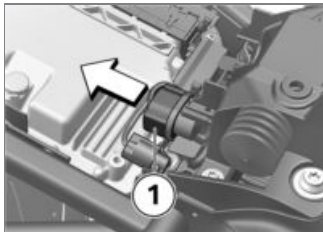
- Place battery cover into the mounting **1** and press into the mounting **2**.



- Install bolt **1**.
- Setting the clock (☞ 111).
- Setting the date (☞ 111).

Fuses

Replace fuses



- Switch off the ignition.
- Removing front seat (→ 99).
- Pull off connector **1**.



ATTENTION

Jumpering of blown fuses

Risk of short-circuit and fire

- Never attempt to jumper a blown fuse.
- Always replace a defective fuse with a new fuse of the same amperage.◀

- Replace faulty fuse in accordance with the fuse allocation diagram.

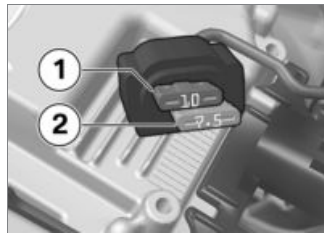


NOTICE

If fuse defects recur frequently have the electric circuits checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.◀

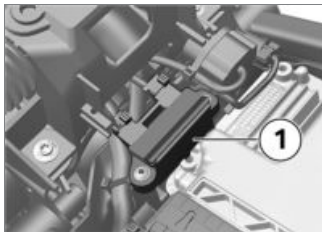
- Install plug **1**.
- Installing front seat (→ 99).

Fuse assignment



- | | |
|----------|--|
| 1 | 10 A
Instrument panel
Anti-theft alarm (DWA)
Ignition switch
Diagnostic socket |
| 2 | 7.5 A
Multifunction switch, left
Tyre pressure monitoring (RDC) |

Fuse for the alternator regulator



1 50 A
Alternator regulator

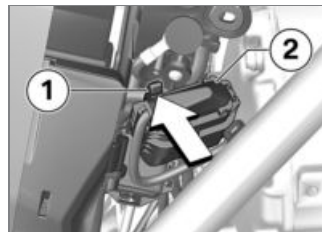
Diagnostic connector Disengaging diagnostic connector



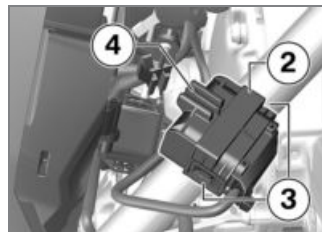
**Incorrect procedure
followed when loosening the
diagnostic connector for the
on-board diagnosis**

Motorcycle experiences malfunctions

- Only have the diagnostic connector loosened by a specialist workshop or other authorised persons during your next BMW Service appointment.
- Have the work performed by appropriately trained staff.
- Refer to the vehicle manufacturer specifications. ◀
- Removing battery cover (➡ 193).



- Press the hook **1** and pull out the diagnostic connector **2** towards the top.

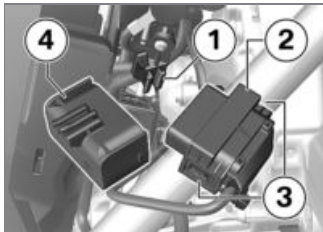


- Press the locks **3** on both sides.

- Loosen the diagnostic connector **2** from the bracket **4**.
 - » The interface to the diagnosis and information system can be connected to diagnostic connector **2**.

Securing the diagnostic connector

- Disconnect the interface for the diagnosis and information system.



- Insert the diagnostic connector **2** into the bracket **4**.
 - » The locks **3** engage on both sides.

- Connect the bracket **4** to the mounting **1**.



- Make sure the hook **5** engages.
- Installing the battery cover (→ 195).

Accessories

General instructions.....	200
Power sockets	200
Cases.....	201
Topcase	204
Navigation system	207

General instructions



CAUTION

Use of other-make products

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 vehicles without constituting a safety hazard. Country-specific official authorisation does not suffice as assurance. Tests conducted by these instances cannot make provision for all operating conditions experienced by BMW vehicles and, consequently, they are not sufficient in some circumstances.
- Use only parts and accessories approved by BMW for your vehicle. ◀

The components and accessory products have been thoroughly

checked by BMW for safety, function and suitability. BMW therefore takes responsibility for the products. BMW does not accept liability for unauthorised parts and accessory products of any kind.

Legal provisions must be taken into account when any changes are made. Please refer to the road traffic licensing regulations (in Germany StVZO) for your country.

Your BMW Motorrad Retailer offers you qualified advice when choosing original BMW components, accessories and other products.

To find out more about accessories, go to:

bmw-motorrad.com/equipment

Power sockets

Connection of electrical devices

- You can start using electrical devices connected to the motorcycle's sockets only when the ignition is switched on.

Cable routing

- The cables from the power sockets to the auxiliary devices must be routed in such a way that they do not impede the rider.
- The cable routing should not restrict the steering angle or obstruct handling.
- The cables must not be trapped.

Automatic shutdown

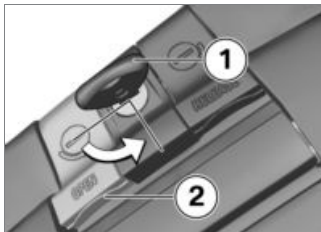
- The sockets will be automatically switched off during the start procedure.

- The power supply to the sockets is switched off no more than 15 minutes after the ignition is switched off, in order to prevent overloading of the on-board electrics. Low-wattage electrical accessories might not be recognised by the vehicle's electronics. In such cases, power sockets are switched off very shortly after the ignition is turned off.
- If the battery charge state is too low to maintain the motorcycle's start capability, the power sockets are switched off.
- The power sockets are also switched off when the maximum load capability as stated in the technical data is exceeded.

Cases

Open cases

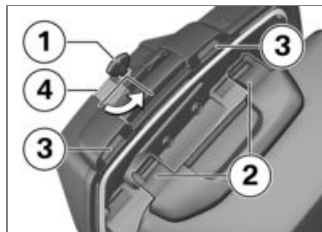
- with touring cases^{OA}



- Turn the key **1** to position OPEN.
- Pull the grey release lever **2** (OPEN) all the way up and simultaneously open the case lid.

Closing cases

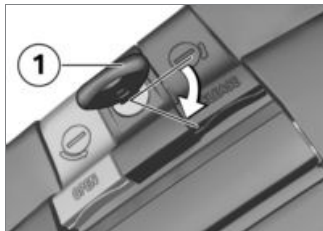
- with touring cases^{OA}



- Turn the key **1** to position OPEN.
- Press catches **2** of the case lid into retainers **3**. Check that nothing is trapped between the lid and the case.
- Pull the grey release lever **4** (OPEN) all the way up and simultaneously open the case lid.
 - » The lid engages with an audible click.
- Turn the key **1** in the case lock so that it is parallel with the direction of travel and remove.

Removing cases

– with touring cases^{OA}



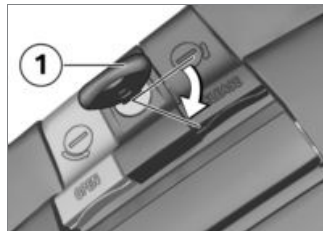
- Turn the key **1** to position RE-LEASE.



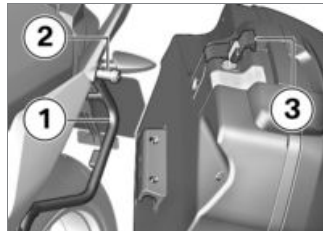
- Pull the black release lever **1** (RELEASE) up and simultaneously pull the case out.
- Then lift the case out of the bottom holder.

Install cases

– with touring cases^{OA}



- Turn the key **1** to position RE-LEASE.



- Position the case in case holder **1**, then pivot it until it is seated at mount **2**.
- Pull the black release lever **3** (RELEASE) up and simultan-

eously push the case into the upper holder **2**.

- Push black release lever **3** (RELEASE) down until it engages.
- Turn the key in the case lock so that it is parallel with the direction of travel and remove.

Maximum payload and maximum permissible speed

Note the maximum permissible payload and the speed limit for riding with cases fitted, as stated on the label inside the case. Contact your authorised BMW Motorrad dealer if you cannot find your combination of vehicle and cases on the label. The values for the combination described here are as follows:

	Maximum permissible speed for riding with cases fitted to the motorcycle
max 180 km/h	
	Payload per case
max 10 kg	

Secure attachment

– with touring cases^{OA}



If a case wobbles or is difficult to fit, it has to be adapted to the

gap between the top and bottom holders.

WARNING

Case installation not in compliance with correct procedure.

Impairment of road safety.

- Cases may not wobble and must be secured free from play. Re-adjust the retainer if play develops over the course of time.◀



Screws **1** inside the case allow you to make this adjustment.

Topcase

Opening topcase

– with topcase^{OA}



- Turn the key in the topcase lock to position **1**.



- Push lock barrel **1** forward.
» Release lever **2** pops up.

Closing topcase

– with topcase^{OA}



- Pull release lever **1** all the way up.
- Close the lid of the topcase and hold it down. Check that nothing is trapped between the lid and the case.



NOTICE

The topcase can also be locked by turning the lock to the LOCK position. In this case, make sure that the key is not left inside the topcase. ◀



- Push release lever **1** down until it engages.
- Turn the key in the topcase lock to the LOCK position and remove the key from the lock.

Removing the topcase

– with topcase^{OA}



- Turn the key in the topcase lock to position **1**.
» The handle pops out.



- Pull handle **1** up as far as it will go.

- Lift the topcase at the rear and remove it from the luggage carrier.

Installing topcase

– with topcase^{OA}

WARNING

Topcase not properly secured

Driving safety is impaired

- The topcase must not wobble and must be secured free from play. ◀
- Pull the handle up as far as it will go.



- Hook the topcase into position on the luggage carrier. Make sure that hooks **1** are securely seated in the corresponding keepers **2**.



- Push handle **1** down until it engages.



- Turn the key in the topcase lock to position **1** and remove the key from the lock.

Maximum payload and maximum permissible speed

Note the maximum permissible payload and the speed limit for riding with topcase fitted, as stated on the label inside the topcase.

Contact your authorised BMW Motorrad dealer if you cannot find your combination of vehicle and topcase on the label. The values for the combination described here are as follows:

 Maximum speed for riding with a laden Vario topcase

max 180 km/h

 Payload of Vario topcase

max 5 kg

Navigation system

Securing navigation system

- with preparation for navigation system^{OE}
- with navigation system^{OA}



NOTICE

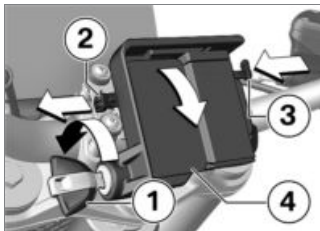
Navigation preparation is suitable from BMW Motorrad Navigator IV.◀



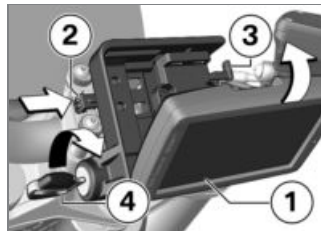
NOTICE

The latching system of the Mount Cradle is not designed to protect against theft.

Always remove the navigation system and stow it away safely as soon as you finish your ride.◀



- Turn ignition key **1** anti-clockwise.
- Pull the lock retainer **2** to the **left**.
- Press the lock **3** in.
 - » Mount Cradle is unlocked and cover **4** can be removed to the front in a swivelling motion.



- Insert the navigation system **1** at the bottom and swing it towards the rear in one rotational movement.
 - » The navigation system engages with an audible click.
- Push the lock retainer **2** all the way to the **right**.
 - » Lock **3** is locked.
- Turn ignition key **4** clockwise.
 - » The navigation system is secured and the ignition key can be removed.

Removing navigation system and installing cover

- with preparation for navigation system^{OE}
- with navigation system^{OA}

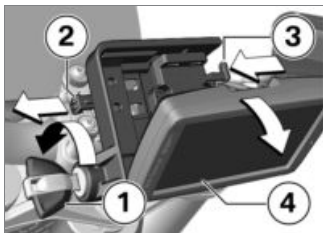


ATTENTION

Dust and dirt on the Mount Cradle contacts

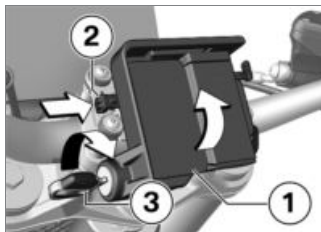
Damaged contacts

- Always reinstall the cover as soon as you finish your ride. ◀



- Turn ignition key **1** anti-clockwise.

- Pull the lock retainer **2** all the way to the **left**.
 - » Lock **3** is unlocked.
- Push lock **3** all the way to the **left**.
 - » Navigation system **4** is unlocked.
- Tilt navigation system **4** and work it downward to remove.



- Insert cover **1** in the lower section and swing to the top with a rotational movement.
 - » The cover engages with an audible click.

- Push lock retainer **2** to the **right**.
- Turn ignition key **3** clockwise.
 - » The cover **1** is secured.

Operating navigation system

- with preparation for navigation system^{OE}



NOTICE

The description below is based on the BMW Motorrad Navigator V and the BMW Motorrad Navigator VI. The BMW Motorrad Navigator IV does not support all the options described here. ◀

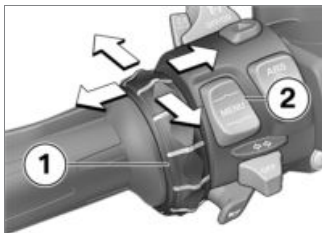


NOTICE

Only the latest version of the BMW Motorrad communication system is supported. A software update of the BMW Motorrad communication system may

be necessary. If this is the case, consult your authorised BMW Motorrad dealer. ◀

If the BMW Motorrad Navigator is installed and the operating focus is switched to the Navigator, (➡ 107), several of its functions can be operated directly from the handlebars.



The navigation system is operated using the Multi-Controller 1 and the rocker button MENU 2.

Turn the Multi-Controller 1 up and down

In the compass and Mediaplayer page: increase or decrease the volume of a Bluetooth-connected BMW Motorrad communication system.

In the BMW special menu: select menu item.

Tilt Multi-Controller 1 briefly to the left and right

Switch between the main pages of the Navigator:

- Map view
- Compass
- Mediaplayer
- BMW special menu
- My Motorcycle page

Long tilt Multi-Controller 1 to the left and right

Activate certain functions on the Navigator display. An arrow to the right or to the left above the corresponding button area on the

display indicates a function that can be activated in this way.



Long-push to the right to activate this function.



Long-push to the left to activate this function.

Press rocker button MENU 2 down

Switch operating focus to Pure Ride view.

In detail, the following functions can be controlled:

Map view

- Turn up: Zoom in.
- Turn down: Zoom out.

Compass page

- Turning increases or decreases the volume of a BMW Motorrad communication

system connected via Bluetooth.

BMW special menu

- Speak: Repeat most recent navigation announcement.
- Waypoint: Save current location as a favourite.
- Home: Starts navigation to home address (greyed if no home address has been defined).
- Mute: Switch automatic navigation announcements off or on (off: a crossed-out lips symbol appears in the top line of the display). "Speak" will still activate navigation announcements. All other acoustic outputs remain switched on.
- Switch off display: Deactivate the display.
- Dial home number: Dials the home phone number saved in the Navigator (not shown unless a communication system

and a telephone are connected).

- Diversion: Activates the diversion function (not shown unless a route is active).
- Skip: Skips the next waypoint (not shown unless the route has waypoints).

My Motorcycle

- Turn: Changes the number of data shown.
- Touch a data field on the display to open the menu for selecting data.
- The values available for selection depend on the optional extras installed on the vehicle.

Mediaplayer

- Push to the left and hold: Play preceding track.
- Push to the right and hold: Play next track.
- Turning increases or decreases the volume of a

BMW Motorrad communication system connected via Bluetooth.



NOTICE

The Mediaplayer function is only available when a Bluetooth device complying with the A2DP standard is used, for example a BMW Motorrad communication system. ◀

Warnings and status messages

- with navigation system^{OA}



Warning and status messages from the motorcycle are indicated by a symbol **1** appearing at the top left in the map view.



NOTICE

If a BMW Motorrad communication system is connected, warnings are accompanied by an acoustic signal. ◀

If there are two or more active warnings the number appears below the warning triangle. Touching the warning triangle when more than one warning

is active opens a list of all the warnings. Additional information appears as soon as a message is selected.



NOTICE

Detailed information cannot be displayed for all warnings. ◀

Special functions

– with navigation system^{OA}

Integration of the BMW Motorrad Navigator can result in deviations from the descriptions in the operating instructions for the Navigator.

Fuel reserve warning

The settings for the fuel gauge are not available, because the reserve fuel level warning is sent by the vehicle to the Navigator. Touch the message when it is active to view the locations of the nearest filling stations.

Date and time display

The Navigator sends the time and date to the motorcycle. To accept the time in the TFT display, the GPS synchronisation function must also be activated in the menu Settings, System settings, Date and time.

Security settings

The BMW Motorrad Navigator V can be secured against unauthorised use with a four-digit PIN (Garmin Lock). If this function is activated while the Navigator is installed in the vehicle and the ignition is switched on, you will be asked whether you want to add this vehicle to the list of secured vehicles. If you answer "Yes" at the prompt, the Navigator saves the VIN of this vehicle in its internal memory. A maximum of five VINs can be saved in this way.

It is then no longer necessary to enter the PIN when the Navigator is switched on by ignition ON on any of these vehicles.

If the Navigator is removed from the vehicle while switched on, a security prompt is issued asking for the PIN to be entered.

Screen brightness

In the installed condition, the screen brightness is specified by the motorcycle. Manual input is not necessary.

Automatic setting can be switched off in the display settings for the Navigator if desired.

Care

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Care products

BMW Motorrad recommends that you use the cleaning and care products you can obtain from your authorised BMW Motorrad Retailer. The substances in BMW Care Products have been tested in laboratories and in practice; they provide optimised care and protection for the materials used in your vehicle.



ATTENTION

Use of unsuitable cleaning and care products

Damage to vehicle parts

- Do not use solvents such as cellulose thinners, cold cleaners, fuel or the like, and do not use cleaning products that contain alcohol. ◀

Washing the vehicle

BMW Motorrad recommends that you use BMW insect remover to soften and wash off insects and stubborn dirt on painted parts prior to washing the vehicle.

To prevent stains, do not wash the vehicle immediately after it has been exposed to strong 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 every trip.



WARNING

Wet brake discs and brake pads after vehicle wash, after riding through water and in rainy conditions

Diminished braking effect, risk of accident

- Apply the brakes in good time to allow the friction and heat to dry the brake discs and brake pads. ◀



ATTENTION

Effect of road salt intensified by warm water

Corrosion

- Use only cold water to wash off road salt. ◀



ATTENTION

Damage due to high water pressure from high pressure cleaners or steam cleaners

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

- Exercise restraint when using a steam jet or high pressure cleaning equipment.◀

Cleaning easily damaged components

Plastics



ATTENTION

Use of unsuitable cleaning agents

Damage to plastic surfaces

- Do not use cleaning agents that contain alcohol, solvents or abrasives.
- Do not use insect-remover pads or cleaning pads with hard, scouring surfaces.◀

Body panels

Clean trim panel components with water and BMW Motorrad solvent cleaner.

Plastic windscreens and headlight lenses

Remove dirt and insects with a soft sponge and generous amounts of water.



NOTICE

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



Clean with water and sponge only.



Do not use any chemical cleaning agents.

Chrome

Carefully clean chrome sections with a generous amount of water and motorcycle cleaner from the care series BMW Motorrad Care Products. This applies especially where road salt has been in use.

For an additional treatment, use BMW Motorrad metal polish.

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

- Take care not to bend the radiator fins when cleaning.◀

Rubber

Treat rubber components with water or BMW rubber-care products.



ATTENTION

Application of silicone sprays to rubber seals

Damage to the rubber seals

- Do not use silicone sprays or care products that contain silicon. ◀

Care of paintwork

The long-term effects of materials that are damaging to paint can be prevented by regular vehicle washes, particularly if your vehicle is ridden in areas susceptible to high levels of air pollution or natural contamination, for example tree resin or pollen. Particularly aggressive materials, however, should be removed immediately, otherwise changes to or discolouration of the paint can result. These include, for example, spilled fuel, oil, grease, brake fluid or bird excrement. For this, we recommend BMW Motorrad solvent cleaner followed by BMW Motorrad gloss polish for preservation. Contamination of the paint surface can be seen particularly

clearly after a vehicle wash. These areas should be cleaned immediately using benzine or spirit, applied with a clean cloth or cotton pad. BMW Motorrad recommends that tar spots be removed using BMW tar remover. The paint should then be preserved in these areas.

Vehicle preservation

If water no longer rolls off the paint, the paint must be preserved.

For paint preservation, BMW Motorrad recommends the use of BMW Motorrad gloss polish or agents containing carnauba wax or synthetic wax.

Laying up the motorcycle

- Clean the motorcycle.
- Fill the motorcycle's fuel tank.
- Removing battery (▶▶▶ 193).
- Spray the brake and clutch lever pivots and the main and side stand pivots with a suitable lubricant.
- Coat bright metal and chrome-plated parts with an acid-free grease (e.g. Vaseline).
- Stand the motorcycle in a dry room in such a way that there is no load on either wheel (preferably using the front-wheel and rear-wheel stands from BMW Motorrad).

Restoring motorcycle to use

- Remove the protective wax coating.
- Clean the motorcycle.
- Installing battery (▮▮▮ 194).
- Comply with checklist (▮▮▮ 136).

Technical data

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Troubleshooting chart

The engine doesn't start.

Possible cause	Rectification
Side stand extended and gear engaged	Fold in side stand.
Gear engaged and clutch not pressed	Select neutral or pull the clutch lever.
No fuel in tank	Refuelling (▮▮▮ 145).
Battery flat	Charge battery when connected (▮▮▮ 192).
Overheating protection for starter motor has been activated. Starter motor can only be operated for a limited period of time.	Allow the starter motor to cool down for approx. 1 minute before using it again.

The Bluetooth connection is not established.

Possible cause	Rectification
The steps required for pairing were not carried out.	Check the necessary steps for pairing in the operating instructions for the communication system.
The communication system was not connected automatically despite successful pairing.	Switch off the helmet's communication system and reconnect it after a minute or two.
Too many Bluetooth devices are saved on the helmet.	All pairing entries on the helmet are deleted (see the communication system operating instructions).
There are other vehicles with Bluetooth-capable devices in the vicinity.	Avoid simultaneously pairing with more vehicles.

Bluetooth connection is interrupted.

Possible cause**Rectification**

The Bluetooth connection to the mobile end device is interrupted.

Switch off energy saving mode.

The Bluetooth connection to the helmet is interrupted.

Switch off the helmet's communication system and reconnect it after a minute or two.

The volume in the helmet cannot be adjusted.

Switch off the helmet's communication system and reconnect it after a minute or two.

The telephone book is not displayed in the TFT display.

Possible cause**Rectification**

The phone book was not transmitted to the vehicle.

Confirm transmission of the phone data (➡ 122) when pairing the mobile device.

Active route guidance is not displayed in the TFT display.

Possible cause**Rectification**

Navigation from the BMW Motorrad Connected App was not transmitted.

The BMW Motorrad Connected App is opened on the connected mobile end device prior to departure.

The route guidance cannot be started.

Secure the mobile device's data connection and check the map data on the mobile end device.

Screw connections

Front wheel	Value	Valid
Brake caliper on the telescopic forks		
M10 x 65	38 Nm	
Quick-release axle in telescopic forks		
M20 x 1.5	50 Nm	
Clamping screw for quick-release axle in telescopic fork		
M8 x 50	Tightening sequence: Tighten screws six times in alternate sequence	
	19 Nm	
Rear wheel	Value	Valid
Rear wheel to wheel flange		
M10 x 1.25 x 40	Tightening sequence: tighten in diagonally opposite sequence	
	60 Nm	

Gearshift lever	Value	Valid
Peg to gearshift lever		
M6 x 20 Micro-encapsulated	10 Nm	
Footbrake lever	Value	Valid
Peg to footbrake lever		
M6 x 20 Micro-encapsulated	10 Nm	
Footrests	Value	Valid
Clamping block on footrest hinge		
M8 x 25	20 Nm	
Footrest on clamping block		
M6 x 20 / M6 x 12	10 Nm	

Handlebars	Value	Valid
Handlebar bridge to fork bridge		
M8 x 35	19 Nm	
M8 x 30	19 Nm	– with preparation for navigation system ^{OE}

Fuel

Recommended fuel grade	 Super unleaded (max 15 % ethanol, E0/E5/E10/E15)  95 ROZ/RON 90 AKI
Alternative fuel grade	 Normal unleaded (power- and consumption-related restrictions.) (max 15 % ethanol, E0/E5/E10/E15)  91 ROZ/RON 87 AKI
Fuel level	approx. 18 l
Fuel reserve	approx. 4 l
Fuel consumption	4.75 l/100 km, following world-wide harmonised motorcycle test cycle (WMTC)
– with power reduction ^{OE}	4.88 l/100 km, following world-wide harmonised motorcycle test cycle (WMTC)

Engine oil

Engine oil, capacity	max 4 l, with filter change
Specification	SAE 5W-40, API SL / JASO MA2, Additives (e.g. molybdenum-based) are not permissible because they can attack coated components of the engine, BMW Motorrad recommends BMW Motorrad ADVANTEC Ultimate oil.
Engine oil, quantity for topping up	max 0.8 l, Difference between MIN and MAX

BMW recommends **ADVANTEC**
ORIGINAL BMW ENGINE OIL

Engine

Location of engine number	Crankcase, bottom right, below starter motor
Engine type	A74B12M
Engine design	Air/liquid-cooled, two-cylinder four-stroke opposed-twin engine with two overlying, spur-gear-driven camshafts, a counterbalance shaft and BMW ShiftCam variable intake camshaft control
Displacement	1254 cm ³
Cylinder bore	102.5 mm
Piston stroke	76 mm

Compression ratio	12.5:1
Nominal output	100 kW, at engine speed: 7750 min ⁻¹
– with power reduction ^{OE}	79 kW, at engine speed: 7750 min ⁻¹
Torque	143 Nm, at engine speed: 6250 min ⁻¹
– with power reduction ^{OE}	140 Nm, at engine speed: 5000 min ⁻¹
Maximum engine speed	max 9000 min ⁻¹
Idle speed	1050 min ⁻¹ , Engine at regular operating temperature
Exhaust emissions standard	Euro4

Clutch

Clutch type	Multiplate oil-bath clutch, anti-hopping
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Transmission

Gearbox type	Claw-shift 6-speed gearbox with helical gearing
Gearbox transmission ratios	1.650 (33 : 20), Primary transmission ratio
	2.438 (39 : 16), 1st gear
	1.714 (36 : 21), 2nd gear
	1.296 (35 : 27), 3rd gear
	1.059 (36 : 34), 4th gear
	0.943 (33 : 35), 5th gear
	0.848 (28 : 33), 6th gear
	1.061 (35 : 33), Transmission output ratio

Rear-wheel drive

Type of final drive	Shaft drive with bevel gears
Type of rear suspension	Cast aluminium single swinging arm featuring BMW Motorrad Paralever
Gear ratio of final drive	2.818 (31/11 teeth)
Rear axle differential oil	SAE 70W-80 / Hypoid Axle G3

Frame

Frame type	Tubular steel frame with supporting drive unit, steel pipe rear frames
Type plate location	Frame, front left at steering head
Position of the Vehicle Identification Number	Frame, front right, on steering head

Chassis and suspension

Front wheel

Type of front suspension	Upside-down telescopic fork
Spring travel, front	140 mm, at front wheel

Rear wheel

Type of rear suspension	Central spring strut with coil spring, adjustable rebound-stage damping and spring preload
– with Dynamic ESA ^{OE}	ESA-2 with spring rate setting
Spring travel at rear wheel	140 mm

Brakes

Front wheel

Type of front brake	Hydraulically operated twin disc brake with 4-piston radial brake calipers and floating brake discs
Brake-pad material, front	Sintered metal

Rear wheel

Type of rear brake	Hydraulically actuated disc brake with 2-piston floating caliper and fixed disc
Brake-pad material, rear	Sintered metal

Wheels and tyres

Recommended tyre sets	Your authorised BMW Motorrad dealer will be happy to supply an up-to-date list of the approved wheel/tyre combinations, or you can check the information posted on the bmw-motorrad.com website.
Speed category, front/rear tyres	W, required at least: 270 km/h
Front wheel	
Front wheel type	Aluminium cast wheel
Front wheel rim size	3.5" x 17"
Tyre designation, front	120/70 - ZR 17
Load index, front tyre	min. 58
Permissible wheel load, front	max 180 kg
Permissible front-wheel imbalance	max 5 g

Rear wheel

Rear-wheel type	Aluminium cast wheel
Rear wheel rim size	5.5" x 17"
Tyre designation, rear	180/55 - ZR 17
Load index, rear tyre	min. 73
Permissible wheel load, rear	max 325 kg
Permissible rear-wheel imbalance	max 45 g

Tyre pressures

Tyre pressure, front	2.5 bar, One-up, with cold tyre
	2.5 bar, Two-up mode with load, with cold tyres
	2.5 bar, for sporting events
Tyre pressure, rear	2.9 bar, One-up, with cold tyre
	2.9 bar, Two-up mode with load, with cold tyres
	2.9 bar, for sporty use

Electrical system

Electrical rating of on-board sockets	max 5 A, total for all sockets
Fuse carrier 1	10 A, Slot 1: instrument cluster, alarm system (DWA), ignition lock, main relay, diagnostic socket 7.5 A, Slot 2: multifunction switch left, tyre pressure control (RDC), angular rate sensor
Fuse holder	50 A, Fuse 1: Voltage regulator

Battery

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

Spark plugs

Spark plugs, manufacturer and designation	NGK LMAR8AI-10
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Lighting

Bulb for high-beam headlight	LED
Bulbs for the low-beam headlight	LED
Bulb for parking light	LED
Bulb for tail light/brake light	LED

Bulbs for flashing turn indicators, front	RY10W / 12 V / 10 W
– with LED flashing turn indicator ^{OE}	LED
Bulbs for flashing turn indicators, rear	RY10W / 12 V / 10 W
– with LED flashing turn indicator ^{OE}	LED

Anti-theft alarm

Activation time on arming	approx. 30 s
Alarm duration	approx. 26 s
Battery type	CR 123 A

Dimensions

Length of motorcycle	2202 mm, over number-plate carrier
Height of motorcycle	1255...1340 mm, TARGET measured: over wind-screen at unladen weight
Width of motorcycle	925 mm, with mirrors 999 mm, with cases
Front-seat height	820 mm, without rider at DIN unladen weight
– with rider's seat, low ^{OE}	760 mm, without rider at DIN unladen weight
– with Sport seat ^{OE}	840 mm, without rider at DIN unladen weight

Rider's inside-leg arc, heel to heel	1840 mm, without rider at unladen weight
– with rider's seat, low ^{OE}	1720 mm, without rider at unladen weight
– with Sport seat ^{OE}	1875 mm, without rider at unladen weight

Weights

Vehicle kerb weight	243 kg, DIN unladen weight, ready for road, 90 % load of fuel, without optional extras
Permissible gross weight	460 kg
Maximum payload	217 kg

Riding specifications

Top speed	>200 km/h
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Service

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BMW Motorrad Service

BMW Motorrad has an extensive network of dealerships in place to look after you and your motorcycle in more than 100 countries. Authorised BMW Motorrad dealerships have the technical information and the technical know-how to carry out reliably all maintenance and repair work on your BMW.

You can locate your nearest authorised BMW Motorrad dealership by visiting our website:

bmw-motorrad.com



WARNING

Maintenance and repair work not in compliance with correct procedure

Risk of accident due to consequential damage

- BMW Motorrad recommends having work of this nature carried out on the vehicle by a

specialist workshop, preferably an authorised BMW Motorrad dealer. ◀

In order to help ensure that your BMW is always in optimum condition, BMW Motorrad recommends compliance with the maintenance intervals specified for your motorcycle. Have all maintenance and repair work that is carried out confirmed in the "Service" chapter in this manual. For generous treatment of claims submitted after the warranty period has expired, evidence of regular maintenance is essential.

Your authorised BMW Motorrad dealer can provide information on BMW services and the work undertaken as part of each service.

BMW Motorrad Service history

Entries

Maintenance work that has been carried out is entered in the proof of maintenance. The entries are like a Service Booklet and provide proof of regular maintenance.

If an entry is made in the electronic service booklet of the vehicle, service-relevant data is saved in the central IT systems of BMW AG, Munich.

If there is a change in vehicle owner, the data saved in the electronic service booklet can also be viewed by the new vehicle owner. A BMW Motorrad Retailer or a specialist workshop can also view data that is stored in the electronic service booklet.

Objection

The vehicle owner can object to entries being made by the BMW Motorrad Retailer or a specialist workshop in the electronic service booklet along with the corresponding storage of data in the vehicle and transfer of data to the vehicle manufacturer for the period of time that they are the vehicle owner. In this instance, no entry is made in the electronic service booklet of the vehicle.

BMW Motorrad Mobility services

As owner of a new BMW vehicle, in circumstances in which assistance is required you can benefit from the protection afforded by the various BMW Motorrad mobility services (e.g. Mobile Service, breakdown service, vehicle recovery service).

Your authorised BMW Motorrad dealer will be happy provide information about the mobility services available to you.

Maintenance work

BMW pre-delivery check

Your authorised BMW Motorrad dealer conducts the BMW pre-delivery check before handing over the vehicle to you.

BMW Running-in check

	Running-in check
500...1200 km	

BMW Service

The BMW Service is carried out once a year. The scope of the service depends on the age of the vehicle and the mileage ridden. Your BMW Motorrad Retailer will confirm the service that

has been carried out for you and will enter the deadline for the next service.

For riders with a high mileage it may be necessary to have a service before the specified deadline. In this case, a corresponding maximum mileage is entered in the service confirmation. If this mileage is reached before the next service deadline, the service must be brought forward.

The Service Interval Indicator in the TFT display reminds you about one month or 1000 km in advance when the time for a service is approaching, on the basis of the programmed values.

To find out more about service, go to:

bmw-motorrad.com/service

The scope of maintenance work required for your vehicle can be found in the following maintenance schedule:

[illegible]

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 bevel gears
rear
- 5** Check valve clearance
- 6** Replace all spark plugs
- 7** Replace air filter element
- 8** Oil change in the tele-
scopic forks
- 9** Change brake fluid, entire
system
 - a** annually or every
10000 km (whichever
comes first)
 - b** every 2 years or every
20000 km (whichever
comes first)
 - c** for the first time after one
year, then every two years

Maintenance confirmations

BMW Service standard scope

The repair tasks in the BMW Service standard scope are listed below. The actual scope of maintenance work applicable for your vehicle may vary.

- Performing vehicle test with BMW Motorrad diagnostic system
- Visual inspection of clutch system
- Visual inspection of the brake lines, brake hoses and connections
- Check front brake pads and brake discs for wear
- Checking the brake fluid level of the front wheel brake
- Check rear brake pads and brake disc for wear
- Checking brake-fluid level, rear brakes
- Check coolant level
- Check the side stand's ease of movement
- Check the centre stand's ease of movement
- Check tyre pressure and tread depth
- Check the tension of the spokes, retighten if necessary
- Check lights and signalling system
- Function test, engine start suppression
- Final inspection and check for road safety
- Set service date and remaining distance with BMW Motorrad diagnosis system
- Check state of charge of the battery
- Confirm BMW service in on-board literature

BMW pre-delivery check

carried out

at _____

Stamp, signature

BMW Running-in Check

carried out

at _____

at km _____

Next service

at the latest

at _____

or, when reached earlier

at km _____

Stamp, signature

BMW Service

carried out

at _____

at km _____

Next service

at the latest

at _____

or, when reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

Yes

No

☐☐

Oil change, engine, with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Renewing all spark plugs

☐☐

Renewing air cleaner insert

☐☐Checking or replacing air filter element
(for maintenance)☐☐

Change brake fluid in entire system

☐☐

Notes

BMW Service

carried out

at _____

at km _____

Next service

at the latest

at _____

or, when reached earlier

at km _____

Work performed

BMW Service

Yes

No

☐☐

Oil change, engine, with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Renewing all spark plugs

☐☐

Renewing air cleaner insert

☐☐Checking or replacing air filter element
(for maintenance)☐☐

Change brake fluid in entire system

☐☐**Notes**

Stamp, signature

BMW Service

carried out

at _____

at km _____

Next service

at the latest

at _____

or, when reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

Yes

No

☐☐

Oil change, engine, with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Renewing all spark plugs

☐☐

Renewing air cleaner insert

☐☐Checking or replacing air filter element
(for maintenance)☐☐

Change brake fluid in entire system

☐☐

Notes

BMW Service

carried out

at _____

at km _____

Next service

at the latest

at _____

or, when reached earlier

at km _____

Work performed

BMW Service

Yes

No

☐☐

Oil change, engine, with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Renewing all spark plugs

☐☐

Renewing air cleaner insert

☐☐Checking or replacing air filter element
(for maintenance)☐☐

Change brake fluid in entire system

☐☐**Notes**

Stamp, signature

BMW Service

carried out

at _____

at km _____

Next service

at the latest

at _____

or, when reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

Yes

No

☐☐

Oil change, engine, with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Renewing all spark plugs

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BMW Service

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at _____

or, when reached earlier

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Work performed

BMW Service

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Renewing all spark plugs

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or, when reached earlier

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Work performed

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Renewing all spark plugs

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Renewing air cleaner insert

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at _____

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or, when reached earlier

at km _____

Stamp, signature

Work performed

BMW Service

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Checking valve clearance

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Renewing all spark plugs

☐☐

Renewing air cleaner insert

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Work performed

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carried out

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at km _____

Next service

at the latest

at _____

or, when reached earlier

at km _____

Work performed

BMW Service

Yes

No

☐☐

Oil change, engine, with filter

☐☐

Oil change in rear bevel gears

☐☐

Checking valve clearance

☐☐

Renewing all spark plugs

☐☐

Renewing air cleaner insert

☐☐Checking or replacing air filter element
(for maintenance)☐☐

Change brake fluid in entire system

☐☐

Notes

Stamp, signature

The table is used to verify maintenance and repair work as well as installed optional accessories and purchased special promotions.

[illegible]

Work performed	at km	Date

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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. ◀

Certifications

BMW Keyless Ride ID Device



USA, Canada

Product name: BMW Keyless Ride ID Device
FCC ID: YGOHUF5750
IC: 4008C-HUF5750

Canada:

Operation is subject to the following two conditions:

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

USA:

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

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



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

Declaration Of Conformity

We declare under our responsibility that the product

BMW Keyless Ride ID Device (Model: HUF5750)

complies with the appropriate essential requirements of the article 3 of the R&TIE and the other relevant provisions, when used for its intended purpose. Applied Standards:

1. Health and safety requirements contained in article 3 (1) a)
 - EN 60950-1:2006+A11:2009+A1:2010+A12:2011; Information technology equipment- Safety
2. Protection requirements with respect to electromagnetic compatibility article 3 (1) b)
 - EN 301 489-1 (V1.9.2, 09/2011), Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
 - EN 301 489-3 (V1.4.1, 08/2002) Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for short range devices (SRD) operating on frequencies between 9 kHz and 40 GHz
3. Means of the efficient use of the radio frequency spectrum article 3 (2)
 - EN 300 220-1 & -2 (V2.4.1, 05/2012), electromagnetic compatibility and radio spectrum matters (ERM); Short range devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW;
Part 1: Technical characteristics and test methods.
Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TIE directive

The product is labeled with the CE marking: **CE**

Velbert, October 15th, 2013



Benjamin A. Müller
Product Development Systems
Car Access and Immobilization – Electronics
Huf Hülbeck & Fürst GmbH & Co. KG
Steeger Straße 17, D-42551 Velbert

Certification Tire Pressure Control (TPC)

FCC ID: MRXBC54MA4
IC: 2546A-BC54MA4

FCC ID: MRXBC5A4
IC: 2546A-BC5A4

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Declaration of Conformity

Radio equipment TFT instrument cluster

For all Countries without EU

Technical information

BT operating freq. Range: 2402 – 2480 MHz

BT version: 4.2 (no BTLE)

BT output power: < 4 dBm

WLAN operating freq. Range: 2412 – 2462 MHz

WLAN standards: IEEE 802.11 b/g/n

WLAN output power: < 20 dBm

Manufacturer and Address

Manufacturer:

Robert Bosch Car Multimedia GmbH

Address: Robert Bosch Str. 200,

31139 Hildesheim, GERMANY

Turkey

Robert Bosch Car Multimedia GmbH, ICC6.5in

tipi telsiz sisteminin 2014/53/EU

nolu yönetmeliğe uygun olduğunu beyan eder.

AB Uygunluk Beyanı'nın tam metni, aşağıdaki

internet adresinden görülebilir: [http://cert.bosch-](http://cert.bosch-carmultimedia.net)

[carmultimedia.net](http://cert.bosch-carmultimedia.net)

Brazil

Este equipamento opera em caráter secundário,

isto é, não tem direito a proteção contra

interferência prejudicial, mesmo de estações do

mesmo tipo, e não pode causar interferência a

sistemas operando em caráter primário.

Canada

This device complies with Industry Canada's licence-exempt RSSs and part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Taiwan, Republic of

根據 NCC 低功率電波輻射性電機管理辦法 規定：
第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，

指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Thailand

เครื่องโทรคมนาคมและอุปกรณ์

มีความสอดคล้องตามข้อกำหนดของ กทช.

(This telecommunication equipments is in compliance with NTC requirements)

United States (USA)

This device complies with Industry Canada's licence-exempt RSSs and part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Korea

적합성평가에 관한 고시

R-CMM-RBR-ICC65IN

상호 : Robert Bosch Car Multimedia

GmbH 모델명 : ICC6.5in

기자재명칭 : 특정소출력 무선기기

(무선데이터통신시스템용 무선기기)

제조사 및 제조국가 : Robert Bosch Car Multimedia GmbH / 포르투갈

제조년월 : 제조년월로 표기

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

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

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

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

Errors and omissions excepted.

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Fuel

