

Motorcycle data/dealership details Motorcycle data **Dealership details** Model Person to contact in Service department Vehicle identification number Ms/Mr Colour code Phone number Date of first registration Registration number Dealership address/phone number (company stamp)

Details described or illustrated in this booklet may differ from the motorcycle's actual specification as purchased, the accessories fitted or the national-market specification. No claims will be entertained as a result of such discrepancies.

Dimensions, weights, fuel consumption and performance data are quoted to the customary tolerances. The right to modify designs,

equipment and accessories is reserved Errors and omissions excepted.

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Important data for refuelling

Fuel	
Recommended fuel grade	Super unleaded 95 ROZ/RON 89 AKI
– with regular unleaded (RON 91) ^{OE}	Regular unleaded (slight power- and consumption-related restrictions) 91 ROZ/RON 87 AKI
Usable fuel capacity	approx. 16 l
Reserve fuel	approx. 4 l
Tyre pressure	
Tyre pressure, front	2.2 bar, one-up, at tyre temperature: 20 °C 2.4 bar, two-up and/or with luggage, at tyre temperat- ure: 20 °C
Tyre pressure, rear	2.4 bar, one-up, at tyre temperature: 20 °C 2.8 bar, two-up and/or with luggage, at tyre temperat- ure: 20 °C



Order No.: 01 41 8 521 151 06.2010, 4th edition



Welcome to BMW We congratulate you on your

choice of a motorcycle from BMW and welcome you to the community of BMW riders.

Familiarise yourself with your new motorcycle so that you can ride it

motorcycle so that you can ride it safely and confidently in all traffic situations.

situations.

Please read this Rider's Manual carefully before starting to use

carefully before starting to use your new BMW motorcycle. 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.

features.
In addition, it contains information on maintenance and care to help you maintain your motorcycle's reliability and safety, as well as its

value.

If you have questions concerning your motorcycle, your authorised

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

BMW Motorrad dealer will gladly provide advice and assistance.

BMW Motorrad.

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General instructions

6

Overview

Chapter 2 of this Rider's Manual will provide you with an initial overview of your motorcycle. All maintenance and repair work on the motorcycle is documented in Chapter 11. This record of the maintenance work you have had performed on your motorcycle 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

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

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

- Indicates the end of an item of information.
- Instruction.
- Result of an activity.
 - Reference to a page with more detailed information.
- <Indicates the end of a passage relating to specific accessories or items of equipment.

Tightening torque.



Item of technical data.

Optional extra The motorcycles are assembled complete with all the BMW optional extras originally ordered.

OE

OA

EWS

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

Electronic immobiliser.

Optional accessory

DWA Anti-theft alarm (Diebstahlwarnanlage)

ABS Anti-lock brake system

When you ordered your BMW motorcycle, you chose various items of custom equipment. This Rider's Manual describes option-

al extras (OE) offered by BMW and selected optional accessories (OA). This explains why the manual may also contain descriptions of equipment which

you have not ordered. Please note, too, that your motorcycle might not be exactly as illustrated in this manual on account of country-specific differences. If your BMW was supplied with

equipment not described in

this Rider's Manual, you will

separate manuals.

find these features described in

Technical data

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

Currency

The high safety and quality standards of BMW motorcycles are maintained by constant development work on designs. equipment and accessories. Because of this, your motorcycle may differ from the information supplied in the Rider's Manual. Nor can BMW Motorrad entirely rule out errors and omissions. We hope you will appreciate that no claims can be entertained on the basis of the data, illustrations or descriptions in this manual.

instructions



2

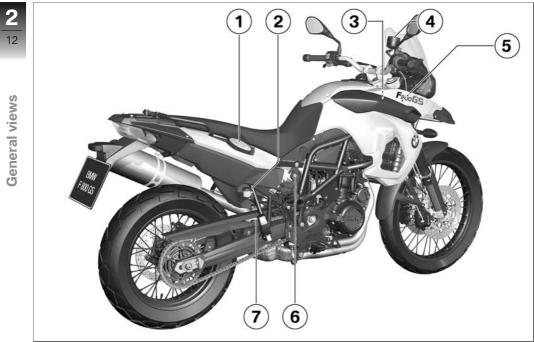
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General views

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oil dipstick (*** 85)



(= 90)VIN, type plate (on steering-head bearing.

right) Brake-fluid reservoir, front Coolant level indicator (be-

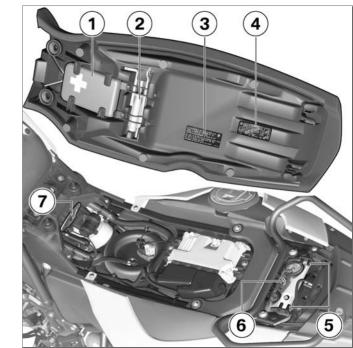
hind side panel) (91)

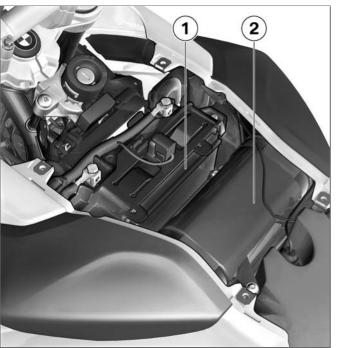
Adjuster, spring preload (45)

Adjuster for damping characteristic (46)

I Underneath the seat

- **1** Stowage
 - with first-aid kit ^{OA}
 Location of the first-aid kit
 - Standard toolkit (*** 84)
 - 3 Payload table
 - 1 Table of tyre pressures
- Helmet holder (** 49)Rider's Manual
 - Tool for adjusting spring preload (** 45)





Underneath the trim panel

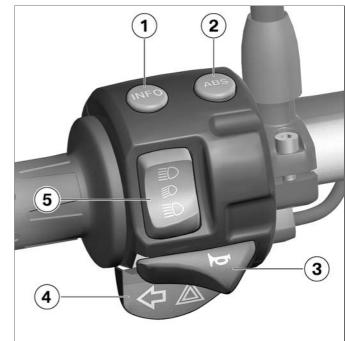
- Battery (114)
- Air-filter housing (→ 112) 2

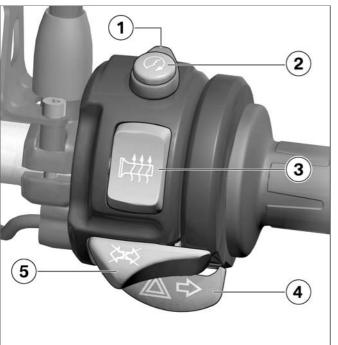
Handlebar fitting, left

- 1 Selecting reading in extended area (36)
- with BMW Motorrad ABS OE

Operating the ABS (** 42)

- **3** Horn
- Flashing turn indicators, left (** 40)
 Hazard warning flashers (** 40)
 - High-beam headlight and headlight flasher (39)





Handlebar fitting, right

- Emergency off switch (kill switch) (41)
- 2 Starter button (** 54)
- with heated handlebar grips ^{OE}
 Grip heating control (** 41)
- Flashing turn indicators, right (## 40)
 Hazard warning flashers (## 40)
- Cancel button, flashing turn indicators (** 40) Pushbutton, cancel hazard warning flashers (** 40)

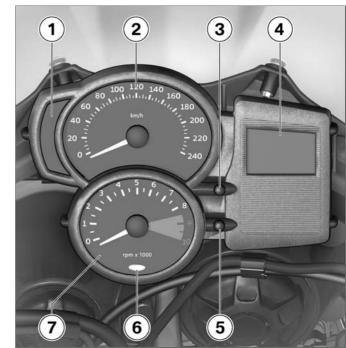
Instrument panel

- **1** Warning and telltale lights (→ 24)
 - Speedometer
 - Setting clock (** 35).
 - with on-board computer OE

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- 4 Multifunction display (

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 - Select the readings (36). Resetting tripmeter (37).





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Status indicators

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Multifunction display

- 1 Trip meter (**→** 36)
- Warning for engine electronics (*** 30)
- with on-board computer OE
 - Stopwatch (37)
- 4 Time (35)
 - Warning for coolant temperature (29)
- Service due (** 25)
 Values area (** 36)
- with on-board computer OE

Symbols explaining the readings shown in the values area (*** 23)

 with on-board computer (optional extra)
 The horizontal bars indicate the level of the coolant

temperature.

SERVICE 13 12

Status

Meaning of symbols with on-board computer OE

the others and the quantity of

Once you have refuelled, the

larger.

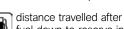
dated.

fuel it represents is significantly

gauge briefly shows the original

level, before the reading is up-







10 – with on-board computer

- with on-board computer^{OE}

Fuel capacity (23)

13 a warning is shown in the values area (26)

- with on-board computer

Gear indicator: "N" indic-

(optional extra)

(optional extra) Values area (36)

ates neutral

fuel down to reserve in km (--- 25)



Average consumption in I/ 100 km



Average speed in km/h



Current consumption in I/ 100 km





- with on-board computer OE



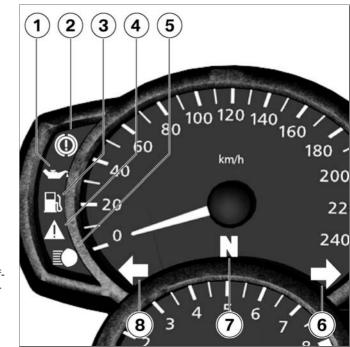
The horizontal bars above the fuel-pump symbol indicate the remaining quantity of fuel. The top bar is larger than

24

Warning and telltale lights

- Oil-pressure warning light $(\implies 30)$
 - with BMW Motorrad ABS OE
- ABS warning light (32) Warning light for fuel down to reserve (29)
- General warning light, in combination with warnings in the display (-26)
- High-beam headlight telltale light Telltale light for right turn
- indicators Telltale light for neutral
- 8 Telltale light for left turn indicators

The ABS symbol might differ, depending on the specifics of national regulations.◀



25



If the next service is due in less than one month, the date for the next service 1 is shown briefly after the Pre-Ride Check completes. The month is shown as a two-digit number and the year as a four-digit number, with a colon as separator, so in this example the next service is due in March 2011.



If the motorcycle covers long distances in the course of the year, under certain circumstances it might be necessary to have it serviced at a date in advance of the forecast due date. If the countdown distance to the odometer reading at which a service will be due is less than 1000 km, the distance is counted down in steps of 100 km 2 and is shown briefly after the Pre-Ride Check completes.

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. The word "Service" remains permanently visible.

If the service-due indicator appears more than a month before the service date, the date saved in the instrument cluster must be adjusted. This situation can occur if the battery was disconnected for a prolonged period of time.

If you want to have the date set consult a specialist workshop, preferably an authorised BMW Motorrad dealer.◀

Kilometres travelled after fuel down to reserve

- with on-board computer OE

Once the fuel has dropped to the reserve level, the reading shows the kilometres

travelled since then. This counter is reset as soon as refuelling brings the total quantity of fuel on board back above the reserve level.

Ambient temperature

- with on-board computer OE

When the motorcycle is at a standstill the heat of the engine can falsify the ambient-temperature reading. If the effect of the engine's heat becomes excessive, — temporarily appears on the display.

If ambient temperature drops below 3 °C the temperature display flashes to draw your attention to the risk of black ice forming. The display automatically switches from any other mode to the temperature reading when the temperature drops below this threshold for the first time.⊲

Warnings Mode of presentation

Warnings are indicated by the corresponding warning lights.



Warnings that do not have warning lights of their own are indicated by 'General' warning light **1** showing in combination with a text warning or a warning symbol in the multifunction display. The 'General' warning light shows red or yellow, depending on the urgency of the warning.



A reading in values area 2 that constitutes a warning is accompanied by warning triangle 3. These warnings can alternate with the odometer readings (36).

The status of the 'General' warning light matches the most urgent warning.

The possible warnings are listed on the next page.

Warnings, overview Warning light	Status indicators	Meaning
Lights up yellow	+ "EWS" appears on the display	Electronic immobiliser active (29)
Lights up		Fuel down to reserve (29)
Lights up red	Flashes	Coolant temperature too high (** 29)
Lights up yellow	Appears on the display	Engine in emergency-operation mode (\$\iii 30\$)
Flashes		Insufficient engine oil pressure (>> 30)
Lights up yellow	+ "LAMP" appears on the display	Bulb defective (30)
	"x.x°C" flashes	Ice warning (••• 31)
Lights up yellow	+ "dWA" appears on the display	Anti-theft alarm battery flat (31)

3	Warning light	Status indicators	Meaning
28	Flashes		ABS self-diagnosis not completed (32)
	Lights up		ABS deactivated (32)
indicators	Lights up		ABS fault (■ 32)
Status			
Ŋ			

Electronic immobiliser

General warning light shows

+ "EWS" appears on the

The key being used is not au-

electronics is disrupted.

Use the reserve kev.

• Have the defective key re-

Fuel down to reserve

to reserve shows.

placed, preferably by an au-

thorised BMW Motorrad dealer.

Warning light for fuel down

thorised for starting, or commu-

Remove all other vehicle kevs

from the same ring as the igni-

nication between key and engine

active

vellow.

A display.

tion kev.

Possible cause:

Lack of fuel can result in the engine misfiring and

cutting out unexpectedly. Mis-

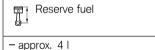
firing can damage the catalytic converter; a hazardous situation can result if the engine cuts out

unexpectedly. Do not run the fuel tank dry.

✓

Possible cause:

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



Refuelling (** 60).

Coolant temperature too high





The temperature symbol flashes.

General warning light shows

result in engine damage. Compliance with the information set out below is essential.◀

Continuing to ride when the

engine is overheated could

Possible cause:

If the coolant level is too low.

 Check the coolant level (** 91). If the coolant level is too low:

Topping up coolant (** 91).

Possible cause:

The coolant temperature is too high.

- If possible, ride in the part-load range to cool down the engine. • In traffic jams, switch off the engine, but leave the ignition
- switched on so that the radiator fan continues to operate. • If the coolant temperature is
 - frequently too high, have the fault rectified as soon as possible by a specialist workshop,

preferably an authorised BMW Motorrad dealer.

Engine in emergencyoperation mode



General warning light shows vellow.



Engine symbol appears on the display.



The engine is running in emergency operating mode. Full engine power or full engine rpm might not be available and this can cause hazardous situations, particularly if you attempt to overtake other road users. Engine power level might be

Possible cause:

The engine control unit has diaanosed a fault. In exceptional cases, the engine stops and refuses to start. Otherwise, the en-

lower than normal: adapt your

style of riding accordingly.

✓

gine runs in emergency operating mode.

- You can continue to ride, but bear in mind that the usual engine power might not be available.
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Insufficient engine oil pressure



Warning light for engine-oil pressure flashes.

The oil pressure in the lube-oil system is too low. Stop immediately and switch off the engine.

The insufficient oil pressure warning does not fulfil the function of an oil gauge. The only way of checking whether the oil level is correct is to check with the oil dipstick.◀

Possible cause:

The engine-oil level is too low.

 Checking engine oil level (85).

If the oil level is too low:

• Top up the engine oil (*** 86).

Possible cause:

The engine-oil pressure is insufficient.



Riding when engine-oil pressure is low can result

Do not continue your journey.◀

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

Bulb defective



General warning light shows vellow.

+ "LAMP" appears on the display.



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

Possible cause:

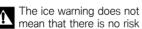
Bulb defective.

- Visually inspect to ascertain which bulb is defective.
- Replacing low-beam and highbeam headlight bulb (104).
- Replacing parking-light bulb (**106**).
- Replacing brake light and rear light bulb (107).
- · Replacing turn indicator bulbs, front and rear (107).

Ice warning

Possible cause:

- with on-board computer OE
- "x.x °C" (ambient temperature) flashes.
- The air temperature measured at the motorcycle is lower than 3°C.



of black ice forming at measured temperatures above 3 °C.

Always take extra care when

temperatures are low; remember that the danger of black ice forming is particularly high on bridges and where the road is in shade.

✓

 Ride carefully and think well ahead.

Anti-theft alarm battery flat

- with anti-theft alarm OE



General warning light shows vellow.



+ "dWA" appears on the 🛂 display.



This error message appears only briefly after the preride check completes.◀

Possible cause:

The integral battery in the antitheft alarm has lost its entire original capacity. There is no assurance that the anti-theft alarm will

be operational if the motorcycle's

battery is disconnected.

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

ABS self-diagnosis not completed

with BMW Motorrad ABSOE



ABS warning light flashes.

Possible cause:

The ABS function is not available, because selfdiagnosis did not complete. The motorcycle has to move forward a few metres for the wheel sensors to be tested.

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

ABS deactivated

with BMW Motorrad ABS OE



ABS warning light shows.

Possible cause:

The rider has switched off the ABS system.

- with BMW Motorrad ABS^{OE}
- Activating ABS function (43).

ABS fault

with BMW Motorrad ABS OE



ABS warning light shows. (1)

Possible cause:

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

- You can continue to ride. Bear in mind that the ABS function is not available. Bear in mind the more detailed information on situations that can lead to an ABS fault (67).
 - · Have the fault rectified as quickly as possible by a specialist workshop, preferably

an authorised BMW Motorrad dealer.

Operation			
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Ignition switch and steering lock

Keys

You receive two master keys and one spare key. Please consult the information on the electronic immobiliser (EWS) if a key is lost or mislaid (35). Ignition switch and steering lock, tank filler cap lock and seat lock are all operated with the same key.

- with case OA
- with topcase OA

If you wish you can arrange to have the cases and the topcase fitted with locks that can be opened with this key as well. Consult a specialist workshop, preferably an authorised BMW

Switching on ignition



- Turn the key to position 1.
- » Parking lights and all function circuits switched on.
- » Engine can be started.
- » Pre-ride check is performed. (55)
- with BMW Motorrad ABSOE
- » ABS self-diagnosis is performed. (56)

Switch off the ignition



- Turn the key to position 2.
- » Lights switched off.
- » Handlebars not locked.
- » Kev can be removed.
- » Electrically powered accessories remain operational for a limited period of time.
- » The battery can be recharged via the on-board socket.

Locking handlebars

 Turn the handlebars all the way to left



- Turn the key to position 3, while moving the handlebars sliahtly.
- » Ignition, lights and all function circuits switched off.
- » Handlebars locked.
- » Kev can be removed.

Electronic immobiliser **EWS**

The motorcycle's electronics exchange certain continuously changing signals with the electronics in the key; these signals are specific to your motorcycle and they are transmitted via the ring aerial in the ignition lock. The ignition is not enabled for starting until the engine control unit has recognised the key as "authorised" for your motorcycle. 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.

The EWS warning appears in the multifunction display. Always keep the spare key sep-

arately from the ignition key. ◀

If you mislay a 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 key, but a key that has

You can obtain replacement/extra kevs 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.

been barred can subsequently be

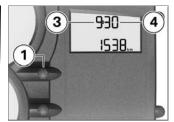
Clock Setting clock

reactivated



Attempting to set the clock while riding the motorcycle can lead to accidents. Set the clock only when the mo-

torcycle is stationary.◀ Switch on the ignition.



- Press and hold down button 1 until the hours number 3 flashes.
- Repeatedly press the button until the hours number is correct.
- Press and hold down the button until the minutes number 4 flashes.
- Repeatedly press the button until the minutes number is correct.
- Hold down the button until the minutes number stops flashing.
- This completes the process.

Reading

Select the readings

Switch on the ignition.



 Press button 2 to select the reading in values area 3.

The following values can be displayed:

- Total kilometres (shown)
- Tripmeter 1 (Trip I)Tripmeter 2 (Trip II)
- Tripmeter 2 (Trip II)Warnings, if applicable

with on-board computer OE



 Press button 4 to select the reading in values area 5.
 The following values can be displayed:

- Ambient temperature (°C)

Average speed in km/h



Average consumption in I/



Current consumption in I/

• Select average consumption or average speed.

Resetting tripmeter

- Switch on the ignition.
- Select the desired tripmeter.



 Press and hold down button 2 until the tripmeter reading is reset.

Resetting average values

- with on-board computer OE
- Switch on the ignition.

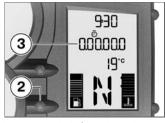


 Press and hold down button 1 until the value shown is reset.

Stopwatch

- with on-board computer OE

Stopwatch



You can switch from the odometer reading to a stopwatch 3. The readout is in hours, minutes, seconds and tenths of a second, with dots as separators. By swapping the functions of

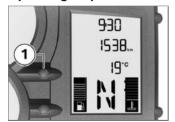
button 2 and the INFO button on the handlebar fitting you can make the stopwatch easier to use (as a lap timer) as you ride. If you swap the functions in this way the stopwatch and the odometer are operated by means of the INFO button and you must

37

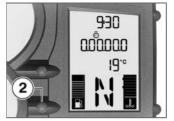
use button **2** to operate the onboard computer.

The stopwatch continues to time in the background if you switch back temporarily to the odometer reading. Similarly, the stopwatch continues timing if you temporarily switch off the ignition.

Operating stopwatch

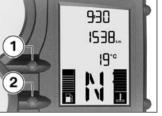


• If necessary, use button **1** to switch from the odometer to the stopwatch.



- When the stopwatch is stopped, press button 2 to start timing with the stopwatch.
- When the stopwatch is running, press button 2 to stop timing with the stopwatch.
- Press and hold down button 2 to reset the stopwatch.

Changing button functions



- Press button 1 and button 2 at the same time and hold them down until the reading changes.
- » FLASH (redline warning) appears, along with ON or OFF.
- Press button 2.
- » LAP (Lap-Timer) and ON or OFF appear.
- Repeatedly press button 1 until the reading shows the mode you want.

- » ON: Stopwatch operated by means of the INFO button on the handlebar fitting.
- » OFF: Stopwatch operated by means of button 2 in the instrument panel.
- To save the setting, press button 1 and button 2 at the same time and hold them down until the reading changes.

Lights

Side light

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

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

Low-beam headlight

The low-beam headlight switches on automatically when you start the engine.

When the engine is not running you can switch on the lights by switching on the ignition and either switching on the high-beam headlight or operating the headlight flasher.

High-beam headlight and headlight flasher



 Press top section of switch 1 to switch on the high-beam headlight. Press bottom section of switch 1 to operate the headlight flasher.

Parking light

Switch off the ignition.



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



Operatio

Turn indicators Operating flashing turn indicators

• Switch on the ignition.

The turn indicators are cancelled automatically after you have ridden for approximately 10 seconds, or covered a distance of about 200 m.◀



 Press button 1 to switch on the left flashing turn indicator.



• Press button **2** to switch on the right flashing turn indicator.



• Press button **3** to switch off the flashing turn indicators.

Hazard warning flashers

Operating hazard warning flashers

• Switch on the ignition.

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

If you press a turn-indicator button with the ignition switched on, the turn-indicator function is activated instead of the hazard warning flashers, and remains active until you release the button. The hazard warning flashers recommence flashing as soon as the button is released.



- Press buttons 1 and 2 at the same time to switch on the hazard warning flashers.
- » Ignition can be switched off.

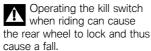


 Press button 3 to switch off the hazard warning flashers.

Emergency off switch (kill switch)

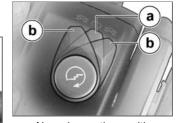


1 Emergency off switch (kill switch)



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 Normal operating position (run)
- **b** Engine switched off.



- with heated handlebar grips OE



Operatio

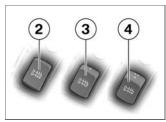


1 Grip-heating switch

The handlebar grips have twostage heating. Stage two is for heating the grips quickly: it is advisable to switch back to stage one as soon as the grips are warm. Grip heating can be activated only when the engine is running.

The increase in power consumption caused by the grip heating can drain the battery if you are riding at low engine speeds. If the charge level is low, grip heating is switched

off to ensure the battery's starting capability.◀



- 2 Heating off.
- **3** 50 % heat output (one dot visible)
- 4 100 % heat output (three dots visible)

BMW Motorrad ABS

- with BMW Motorrad ABSOE

Deactivating ABS function

 Bring the motorcycle to a stop or, if the motorcycle is at a standstill, switch on the ignition.



 Press and hold down button 1 until the ABS warning light changes status.



ABS warning light shows.

 Release button 1 within two seconds.



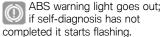
ABS warning light remains ON.

» The ABS function is deactivated.

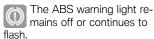


Activating ABS function

 Press and hold down button 1 until the ABS warning light changes status.



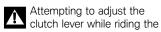
• Release button 1 within two seconds.



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

then on again and the ABS light comes back on, there is a fault in the ABS.◀

Clutch Adjusting clutch lever



motorcycle can lead to accidents. Do not attempt to adjust the clutch lever unless the motorcycle is at a standstill.◀



 Turn adjusting screw 1 clockwise to increase the span Turn adjusting screw 1 counter-clockwise to reduce the span between the clutch lever and the handlebar grip.

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

Brakes

Adjust the handbrake lever

Changing the position of the brake-fluid reservoir can allow air to penetrate the brake system.

Do not twist the handlebar fitting or the handlebars.◀

Attempting to adjust the handbrake lever while riding the motorcycle can lead to accidents.

Do not attempt to adjust the

handbrake lever unless the motorcycle is at a standstill.◀



- Turn adjusting screw 1 clockwise to increase the span between the brake lever and the handlebar grip.
- Turn adjusting screw 1 counter-clockwise to reduce the span between the brake lever and the handlebar grip.

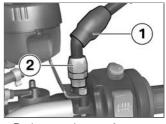
The adjusting screw is easier to turn if you push the handbrake lever forward.◀

Mirrors Adjust the mirrors

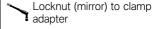


 Turn the mirror to the correct position.

Adjusting mirror arm



- Push protective cap 1 up over the threaded fastener on the mirror arm.
- · Slacken nut 2.
- Turn the mirror arm to the appropriate position.
- Tighten the nut to the specified tightening torque, while holding the mirror arm to ensure that it does not move out of position.



- 20 Nm

Spring preload Setting

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

Adjusting spring preload for rear wheel

• Remove the seat (*** 48).

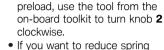


Remove on-board toolkit 1.



Adjust the damping characteristic to suit spring preload.

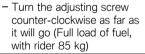
✓ If you want to increase spring clockwise.



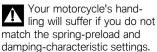
preload, use the tool from the on-board toolkit to turn knob 2 counter-clockwise.



Basic setting of spring preload, rear



- Stow the on-board toolkit in its correct position.
- Installing seat (** 49).



Damping Setting

Damping must be adapted to suit the surface on which the motorcycle 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 damping for rear wheel

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



 You adjust the damping characteristic by turning adjusting screw 1.



• If you want a harder damping characteristic, use a screwdriver to turn adjusting screw 1

- in the direction indicated by the H arrow.
- If you want a softer damping characteristic, use a screwdriver to turn adjusting screw 1 in the direction indicated by the S arrow.



Basic setting of rear-suspension damping characteristic

- Turn adjusting screw as far as it will go clockwise, then back it off 1 1/2 turns. (Full load of fuel, with rider 85 kg)

Tyres Checking tyre pressure



Incorrect tyre pressures impair the motorcycle's handling characteristics and increase the rate of tyre wear.

Always check that the tyre pressures are correct.◀

Tyre pressure, rear - 2.4 bar (one-up, at tyre temperature 20 °C)

- 2.8 bar (two-up and/or with luggage, at tyre temperature

If tyre pressure is too low: Correct tyre pressure.

Headlight

20 °C)

Adjusting headlight for driving on left/driving on right If the motorcycle is ridden in a country where the opposite rule

of the road applies, its asymmetric low-beam headlight will tend to dazzle oncoming traffic. Have the headlight set accordingly by a specialist workshop, preferably an authorised BMW Motorrad dealer.

 Make sure the ground is level and firm and place the motorcycle on its stand. Check tyre pressures against the data below.

At high road speeds, tyre

valves installed perpen-

dicular to the wheel rim have a

tendency to open as a result of

In order to avoid sudden defla-

tion, fit valves installed perpen-

dicular to the rim with valve caps

screwed firmly on to the valves.◀

complete with rubber seals and

make sure the valve caps are

centrifugal force.

- 2.2 bar (one-up, at tyre temperature 20 °C) - 2.4 bar (two-up and/or with luggage, at tyre temperature

20 °C)

Tyre pressure, front

Headlight beam throw is generally kept constant when spring preload is adjusted to suit load. Spring preload adjustment might

spring preload

Headlight beam throw and

not suffice only if the motorcycle is very heavily loaded. Under these circumstances, headlight beam throw has to be adjusted to suit the weight carried by the



motorcycle.

shop, preferably an authorised BMW Motorrad dealer. if you are unsure whether the headlight beam-throw setting is correct.◀

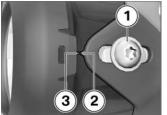
Consult a specialist work-

Adjusting headlight beam throw



- Slacken screws 1 on left and right.
- Adjust beam throw by tilting the headlight slightly about its horizontal axis.
- Tighten screws **1** on left and right.

Beam-throw basic setting



- Slacken screws 1 on left and right.
- Tilt the headlight slightly about its horizontal axis until arrowhead 2 is pointing toward marker 3.
- Tighten screws **1** on left and right.

Seat

Remove the seat

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



 Turn the key to the left in seat lock 1 and hold it in this position while pressing down the front part of the seat.



 Lift seat 2 at the front and release the key.

Remove the seat and place it, rubber buffers down, on a clean surface.

Installing seat



- Engage the seat in holders 3.
- Firmly press down on the seat at the front.
- » The seat engages with an audible click.

Helmet holder Securing helmet to motorcycle

• Remove the seat (48).



cable to secure the helmet to helmet holder 1 on left or right.



If it is attached on the left side of the motorcycle. there is a possibility of the helend silencer. If possible, attach the helmet on the right-hand side of the motorcycle.◀

met being damaged by the hot

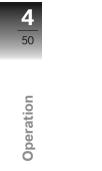


The helmet catch can scratch the panelling. Make sure the lock is out of the way when you hook the helmet into position.◀

 Pass the steel cable through the helmet and the holder and position cable and helmet as shown here.

Installing seat (** 49).





Riding

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Diding

5

Riding

Safety instructions 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.

Correct loading

Overloading and imbalanced loads can adversely affect the motorcycle's handling. Do not exceed the permissible gross weight and be sure to comply with the instructions on loading.

- characteristic and tyre pressures to suit total weight.
- sures to suit total weight.

 with case OA

Set spring preload, damping

or

- with aluminium case OA
- 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 of the cases and toward the inboard side.
- Note the maximum permissible payload and the speed limit for riding with cases fitted, as stated on the label inside the case.
- with topcase OA or
- with aluminium topcase OA
- Note the maximum permissible payload and the speed limit for riding with topcase fitted, as

stated on the label inside the topcase.⊲

- with tank rucksack OA
- Note the maximum permissible payload of the tank rucksack and the speed limit for riding with a tank rucksack on the

Payload of tank rucksack



— max 5 kg

motorcycle.

Maximum permissible speed for riding with the tank rucksack fitted to the motorcycle

- max 130 km/h– with rear softbag OA
- Note the maximum permissible payload of the rear softbag and the speed limit for riding with a rear softbag on the motorcycle.

5

53

Payload of rear softbag

Maximum permissible

speed for riding with the rear softbag fitted to the motorcvcle

- max 130 km/h⊲

Speed

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

- Settings of the spring-strut and shock-absorber system
- 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.



Inhaling the exhaust fumes therefore represents a health hazard and can even cause loss of consciousness with fatal consequences.

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

Catalytic converter

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

For this reason, observe the following points:

- Do not run the fuel tank dry.
- Do not attempt to start or run the engine with a spark-plug cap disconnected.

- it misfires. - Use only unleaded fuel.
- Comply with all specified maintenance intervals.

Stop the engine immediately if

Unburned fuel will destroy

the catalytic converter. Note the points listed for protec-

tion of the catalytic converter.◀

Risk of overheating Cooling would be



inadequate if the engine were allowed to idle for a lengthy period with the motorcycle at a standstill: overheating would

motorcycle could catch fire. Do not allow the engine to idle unnecessarily. Ride away immediately after starting the engine.◀

result. In extreme cases, the

Tampering

Tampering with motor-cycle settings (e.g. electronic engine management unit, throttle valves, clutch) can cause damages to the components in question and lead to failure of safety-relevant functions. Damage caused in this way is not covered by the warranty.

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

Checklist

Use the following checklist to check important functions, settings and wear limits before you ride off.

- Brakes
- Brake-fluid levels, front and rear
- Clutch
- Damping-characteristic setting and spring preload

- Tyre-tread depth and tyre pressures
- Cases correctly installed and luggage secured

At regular intervals:

- Engine oil level (every refuelling stop)
- Brake-pad wear (every third refuelling stop)
- Tension and lubrication of the drive chain

Starting Side stand

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.

Gearbox

You can start the engine when the gearbox is in neutral or if you pull the clutch with a gear engaged. Do not pull the clutch until after you have switched on the ignition, as otherwise the engine will refuse to start.

Starting engine



• Kill switch in run position a.



Gearbox lubrication is ensured only when the engine

is running. Inadequate lubrication can result in damage to the gearbox.

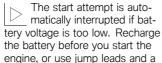
- Do not allow the motorcycle to roll for a lengthy period of time or push it a long distance with the engine switched off.◀
- Switch on the ignition.
- » Pre-ride check is performed. (*** 55)
- with BMW Motorrad ABS^{OE}
 ABS self-diagnosis is
- performed. (** 56)



• Press starter button 1.

If ambient temperatures are very low, you might find it necessary to open the throttle slightly when starting the engine.

At ambient temperatures below 0 °C, disengage the clutch after switching on the ignition.◀



» The engine starts.

donor battery to start.◀

» If the engine refuses to start, consult the troubleshooting chart in the section entitled "Technical data". (IIII 124)

Pre-ride check

The instrument panel runs a test of the instruments and the telltale and warning lights when the ignition is switched on: this is the Pre-Ride-Check The test is aborted if you start the engine before it completes.

Phase 1

The rev. counter and speedometer needles both swing to the limit values on their scales. At the same time, all the warning lights and telltale lights are switched on in succession.

Phase 2

» The 'General' warning light changes from yellow to red.

Phase 3

The rev. counter and speedometer needles both swing back to rest. At the same time, all the warning lights and telltale lights switched on in the initial phase are switched off in reverse sequence.

If a needle did not move or if a warning light or telltale light did not show:

Some malfunctions cannot be indicated if one of the warning lights fails to show. Make sure that all the warning and telltale lights come on in the pre-ride check.◀

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

ABS self-diagnosis

- with BMW Motorrad ABSOE

BMW Motorrad ABS performs self-diagnosis to ensure its operability. Self-diagnosis is performed automatically when you switch on the ignition. The motorcycle has to move forward a few metres for the wheel sensors to be tested.

Phase 1

» Test of the diagnosis-compatible system components with the motorcycle at a standstill. ABS warning light flashes.



Phase 2

» Test of the wheel sensors as the motorcycle pulls away from rest. ABS warning light flashes.



ABS self-diagnosis completed

» The ABS warning light goes out.

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

 You can continue to ride. Bear in mind that the ABS function is not available.

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

Running in The first 1000 km

ods.

- While running in the motorcycle, vary the throttle opening
- and engine-speed range frequently; avoid riding at constant engine rpm for prolonged peri-
- Try to do most of your riding during this initial period on twisting, fairly hilly roads, avoiding high-speed main roads and highways if possible.
- Comply with the rpm limits for running in.

Running-in speed

- <5000 min⁻¹

• Do not omit the first inspection after 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.

New brake pads can extend stopping distance by a significant margin.

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.

Tyres do not have their full

grip when new and there is a risk of accidents at extreme angles of heel.

Avoid extreme angles of heel. ◀

speed

- with on-board computer OE

Redline warning



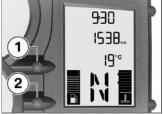
The redline warning indicates that engine revolutions have reached the rev. counter's red. segment. The anti-theft alarm telltale light 1 flashes red to inlinina. The signal remains active un-

til you shift up or reduce engine speed. You can activate or deactivate the redline warning.

dicate that the engine is red-

5 57

Activating redline warning



- Press button 1 and button 2 at the same time and hold them down until the reading changes.
- » FLASH (redline warning) appears, along with ON or OFF.
- Repeatedly press button 1 until the reading shows the mode you want.

Ridin

- » ON: Redline warning activated.
- » OFF: Redline warning deactivated.
- To save the setting, press button 1 and button 2 at the same time and hold them down until the reading changes.

Off-roading After off-roading

BMW Motorrad recommends checking the following after riding the motorcycle off-road:

Tyre pressure

Tyre pressures reduced for off-road riding impair the motorcycle's handling characteristics on surfaced roads and can lead to accidents.

Always check that the tyre pressures are correct.<

Brakes

When riding on loose sur-

faces or muddy roads, the brakes may fail to take effect immediately because of dirt or moisture on the discs or brake pads.

Apply the brakes in good time until the brakes have been cleaned.◀



The brake pads will wear more rapidly if you ride frequently on unsurfaced tracks or poor roads.

Check the thickness of the brake pads more frequently and replace the brake pads in good time.

✓

Spring preload and shockabsorber settings



■ The off-road settings for spring preload and shock absorber damping characteristic will impair the motorcycle's handling characteristics on surfaced roads.

If you have been off-roading, remember to correct spring preload and shock-absorber damping characteristics before you return to surfaced roads.◀

Rims

BMW Motorrad recommends checking the rims for damage after off-roading.

Air filter element



Engine damage due to clogged air filter element.

If you ride in dusty terrain check the air filter element for clogging at shorter intervals; clan or replace as necessary.◀

Operation in very dusty conditions (desert, steppes, or the like) necessitates the use of air filter elements specially designed for conditions of this nature.

a load distribution shift takes

Each time the brakes are applied.

place with the load shifting forward from the rear to the front wheel. The sharper the motorcycle 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 "panic braking situations"

braking force is applied as rap-

that are trained so frequently

idly as possible and with the

rider's full force exerted on 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. Under these circumstances the front wheel can lock up.

with BMW Motorrad ABS^{OE}

BMW Motorrad ABS prevents

Descending mountain passes There is a danger of the

brakes fading if you use only the rear brakes when descending mountain passes. Under extreme conditions, the brakes

damage. Use both front and rear brakes.

could overheat and suffer severe

braking effect as well.◀

and make use of the engine's

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 motorcycle 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 dirt-covered surfaces or off-road.



Wetness and dirt result in poor braking efficiency. Apply the brakes lightly while

5 59

Riding

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.◀

Parking your motorcycle

Side stand

Switch off the engine.

If the ground is soft or un-even, there is no guarantee that the motorcycle will rest firmly on the stand. Always check that the ground under the stand is level and firm.◀

 Extend the side stand and prop the motorcycle on the stand.

The side stand is designed to support only the weight of the motorcycle.

Do not lean or sit on the motorcycle with the side stand extended.◀

- If the camber of the roadway permits, turn the handlebars all the way to the left.
- On a gradient, the motorcycle should always face uphill; select 1st gear.

Centre stand

- with centre stand OE
- Switch off the engine.

If the ground is soft or un-even, there is no guaran-

tee that the motorcycle will rest firmly on the stand.

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

Excessive movements could cause the centre stand to retract, and the

motorcycle would topple in consequence.

Do not lean or sit on the motorcycle with the centre stand extended.◀

 Extend the centre stand and lift the motorcycle onto the stand.

Refuelling



Fuel is highly flammable. A naked flame close to the

fuel tank can cause a fire or explosion.

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



Fuel expands when hot. Fuel escaping from an

overfilled tank could make its way onto the road surface. This could cause a fall.

Do not overfill the fuel tank.◀

Wipe off plastic parts immediately if they come into contact with fuel.◀

Leaded fuel will destroy the catalytic converter.

Use only unleaded fuel.

■ Make sure the ground in

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

The volume of the tank can be utilised to the full only when the motorcycle is propped on its side stand.

Open the protective cap.



 Use the ignition key to unlock the fuel filler cap and pop the cap open.



 Refuel with fuel of the grade stated below; do not fill the When refuelling after running on reserve, make sure that you top up the tank to a level above reserve, as otherwise the sensor will not be able to register the new level. If the sensor cannot register the new level neither the fuel-level read-

tank past the bottom edge of

the filler neck.



updated.◀

Recommended fuel grade

ing nor the range readout can be

- Super unleaded
- 95 ROZ/RON
- 89 AKI
- with regular unleaded (RON 91) OE



Recom grade Recommended fuel

- Regular unleaded (slight power- and consumptionrelated restrictions)
- 91 ROZ/RON
- − 87 AKI

Usable fuel capacity

approx. 16 l



- approx. 4 l
- Press the fuel tank cap down firmly to close.
- · Remove the key and close the protective cap.

Secure the 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.



The motorcycle can topple and fall on its side.

Make sure that the motorcycle cannot topple sideways.◀

• Push the motorcycle onto the transportation flat and hold it in

position: do not place it on the side stand or centre stand



Risk of damaging components.

Take care not to trap components such as brake lines or wires.◀

 At the front, secure the straps to the bottom fork bridge on both sides and tighten the straps.



- At the rear, secure the straps to the rear frame on both sides and tighten the straps.
- Tighten all the straps uniformly; the motorcycle's suspension should be compressed as tightly as possible front and rear.

Engineering details

Brake system with BMW Motorrad	
ABS	66

Brake system with 6 **BMW Motorrad ABS** 66

- with BMW Motorrad ABS OE

How does ABS work?

The amount of braking force that can be transferred to the road depends on factors hat 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, 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 transferrable limit, the wheels start to lock and the motorcycle loses its directional stability; a fall is imminent. Before this situation can occur, ABS intervenes and adapts braking pressure to the maximum transferrable braking

force, so the wheels continue to turn and directional stability is maintained irrespective of the condition of the road surface

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 BMW Motorrad ABS must assume an extremely low coefficient of friction, so that the wheels will continue to rotate under all imaginable circumstances, because this is the precondition for ensuring

directional stability. As soon as is registers the actual circumstances, the system reacts instantly and adjusts braking force accordingly to achieve optimum brakina.

Rear wheel lift

Under very severe and sudden deceleration, however, under certain circumstances it is possible that the BMW Motorrad 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.



Severe braking can cause the rear wheel to lift off the ground.

When you brake, bear in mind that ABS control cannot be relied on in all circumstances to prevent the rear wheel from lifting clear of the ground.◀

What is the design baseline for BMW Motorrad ABS?

Within the limits imposed by physics, BMW Motorrad ABS ensures directional stability on any surface. The system is not optimised for special requirements that apply under extreme competitive situations off-road or on the track.

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 lead to a fault message being issued. **Exceptional riding** conditions:

- Riding for a lengthy period with the front wheel lifted off the around (wheelie).
- Rear wheel rotating with the motorcycle held stationary by applying the front brake (burnout).
- on the centre stand or an auxiliary stand, engine idling or with a gear engaged.

- Heating up with the motorcycle

- Rear wheel locked for a lengthy period, for example while descending off-road.

If a fault message is issued on account of exceptional riding conditions as outlined above, you can reactivate the ABS function by switching the ignition off and on again.

What significance devolves on regular maintenance?



Invariably, a technical sys-Invariably, a technical system cannot perform beyond the abilities dictated by its level of maintenance.

In order to ensure that the BMW Motorrad 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 BMW Motorrad ABS permits must not be used as an excuse for careless riding. ABS is primarily a means of ensuring a safety margin in genuine emergencies.

Take care when cornering. When you apply the brakes on a corner, the motorcycle's weight and



momentum take over and even BMW Motorrad ABS is unable to counteract their effects. 68

Engineering details

Accessories

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Power sockets	70
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Aluminium topcase	79

General instructions

BMW Motorrad recommends the use of parts and accessories for your motorcycle that are approved by BMW for this purpose. Genuine BMW parts and accessories and other products which BMW has approved can be obtained from your authorised BMW Motorrad dealer, together

with expert advice on their install-

ation and use. These parts and products have been tested by BMW for safety, function and suitability. BMW accepts product liability for them. Conversely, BMW is unable to accept any liability whatsoever for parts and accessories which it has not approved.

Also bear in mind the information on the effect of wheel size on suspension-control systems (95).



BMW Motorrad cannot examine or test each

product of outside origin to ensure that it can be used on

motorcycles without constituting

a safety hazard. Country-specific

official authorisation does not

conducted by these instances

operating conditions experienced

cannot make provision for all

suffice as assurance. Tests

or in connection with BMW

by BMW motorcycles and, consequently, they are not sufficient in some circumstances. Use only parts and accessories approved by BMW for your motorcycle.◀ Whenever you are planning modifications, comply with all the legal requirements. Make sure

that the motorcycle does not

applicable in your country.

infringe the national road-vehicle

construction and use regulations

Power sockets

Notes on use of power sockets:

automatic shutdown

Power sockets are shut down automatically under the following circumstances:

- If battery charge state is too low to maintain the motorcycle's start capability
- If maximum load capability as stated in the technical data is exceeded
- When the engine is being cranked on the starter

Operating electrical accessories

You can start using electrical accessories only when the ignition is switched on. The accessory remains operational if the ignition is subsequently switched off. The power sockets are switched off approximately 15 minutes after the ignition is switched off,

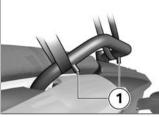
in order to prevent overloading of the on-board electrics.

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 riderDo not restrict the steering
- angle or obstruct handling
- Cannot be trapped

Luggage Lashing luggage



• Loop the luggage straps over the bar between the motorcycle and stops **1**.



- Position luggage strap 2 as shown here with a stuffbag as example.
- Check that the luggage is secure.

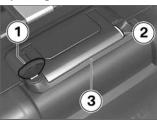
Case

- with case OA

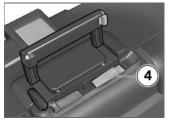


Accessories

Opening cases



- Turn key 1 in the case lock to right angles with the forward direction of travel.
- Press and hold down yellow latch 2 and pull up carry handle 3.



 Push yellow button 4 down and at the same time open the lid of the case.

Closing cases

- Turn the lock with the key until it is at right angles to the forward direction of travel.
- Close the case lid.
- » The lid engages with an audible click.



Closing the carry handle while the case lock is in line with the forward direction of travel can result in damage to the locking tongue.

Make sure that the case lock is at right angles to the forward direction of travel when you close the carry handle.

- Close carry handle 3.
- Turn the key in the case lock in line with the forward direction of travel and remove the key from the lock.

Adjusting case volume

• Open the case and remove all its contents.

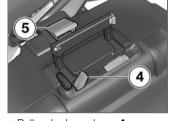


- Engage pivot lever 1 at the top limit position to set the case to minimum volume.
- Engage pivot lever 1 at the bottom limit position to set the case to maximum volume.
- Close the case.

Remove the cases



- Turn key 1 in the case lock to right angles with the forward direction of travel.
- Press and hold down yellow latch 2 and pull up carry handle 3.



- Pull red release lever 4 up.
- » Latching flap **5** pops up.
- Fully open the latching flap.
- Take a firm grip of the handle and lift the case out of the holder.

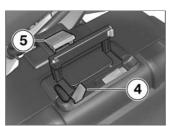
Installing cases



 Fully open latching flap 5, if necessary pulling up red release lever 4.



 Position the case in case carrier 6, then pivot it until it is seated at mount 7.



 Push latching flap 5 down as far as it will go and hold it in this position.

- Push red release lever 4 down.
- » Latching flap **5** engages.
- Close the carry handle.
- Turn the key parallel with the direction of travel and remove.

topcase

with topcase OA

Opening topcase



- Turn key **1** in the topcase lock to the vertical position.
- Press and hold down yellow latch 2 and pull out carry handle 3.

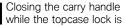


 Push yellow button 4 forward and at the same time push the topcase lid up.

Close the topcase



 Press down firmly on the topcase lid to close.



while the topcase lock is horizontal can result in damage to the locking tongue.

Make sure that the topcase lock is vertical when you close the carry handle.◀

- Close carry handle 3.
- » The handle engages with an audible click.
- Turn the key in the topcase lock to the horizontal position and remove the key from the lock.

Adjusting topcase volume

• Open the topcase and remove all its contents.



- Engage pivot lever 1 at the front limit position to set the case to maximum volume.
- Engage pivot lever 1 at the rear limit position to set the case to minimum volume.
- Close the topcase.

Removing topcase



- Turn key 1 in the topcase lock to the vertical position.
- Hold down yellow latch 2 and push carry handle 3 down.



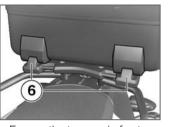
• Pull red lever 4 back as far as it

- will go. » Latching flap 5 pops up.
- Fully open latching flap 5.
- Take a firm grip of the handle and lift the topcase out of the holder.

Installing topcase



• Fully open latching flap 5, if necessary pulling red release lever 4 to the rear.



- Engage the topcase in front holders 6 of the topcase carrier plate.
- Press the topcase onto the topcase carrier plate at the rear.

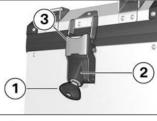


- Push latching flap 5 fully closed and hold it in this position.
- Push red release lever 4 forward.
- » The latching flap engages.
- Close the carry handle.
- Turn the key to the horizontal position and remove.

Aluminium cases

with aluminium case OA

Opening cases



• Turn key 1 counter-clockwise.

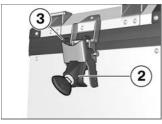


The case lid can be opened at either the left or the right

latch.◀

- Push lock housing 2 up to disengage latch toggle 3.
- Pull latch toggle **3** to the side and open the lid.

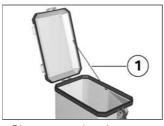
Closing cases



- · Close the case lid.
- Hold latch toggle 3 in position on the lid.
- Push lock housing 2 down, making sure that the latch toggle grips firmly in the lid.
- To secure the lock, turn the key clockwise and remove.

Removing case lid

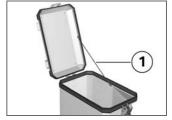
• Open one latch of the case lid.



- Disengage retainer 1.
- · Close the case lid.
- Open the second catch of the case lid.
- Remove the case lid.

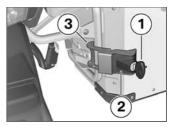
Installing case lid

- Place the case lid on the case.
- Close one latch of the case lid.
- Using the locked side as a hinge, open the case lid.



- Engage retainer 1.
- · Close the case lid.
- Close the second latch of the case lid.

Remove the cases



• Turn key 1 counter-clockwise.

- Push lock housing 2 to one side to disengage latch toggle 3.
- Pull latch toggle 3 to the side. while holding the case in position.



The left case and the case carrier can become hot on long rides.

Allow the case and the case carrier to cool down before removing the case.◀

 Pull the case back as far as it. will go and then out to remove.

Installing cases



 Set the case on the case carrier and push it forward in such a way that mounts on case carrier 5 and on case 4 engage each other.



- Seat latch toggle 3 on the case carrier, while holding the case in position.
- Push lock housing 2 to the side, making sure that the latch togale grips firmly on the carrier.
- Turn the key clockwise and remove.

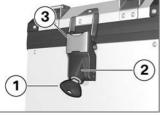
Aluminium topcase

- with aluminium topcase OA

Topcase and off-roading

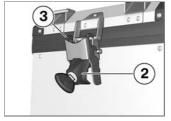
It is advisable to either remove the topcase or fit the backrest cushion available as an optional accessory if you intend off-roading.

Opening topcase



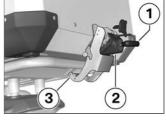
- Turn key 1 counter-clockwise.
- Push lock housing 2 up to disengage latch toggle 3.
- Pull latch toggle 3 back and open the lid.

Closing topcase



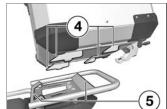
- Close the topcase lid.
- Hold latch toggle 3 in position on the lid.
- Push lock housing 2 down, making sure that the latch toggle grips firmly in the lid.
- To secure the lock, turn the key clockwise and remove.

Removing topcase

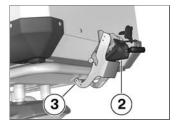


- Turn key 1 counter-clockwise.
- Push lock housing 2 down to engage latch toggle 3.
- Pull latch toggle 3 back.
- Pull the topcase to the rear and then lift it up to remove.

Installing topcase



• Set the topcase on the topcase rack and push it forward in such a way that mounts on topcase rack **5** and on topcase **4** engage each other.



- Hold latch toggle **3** in position on the topcase carrier.
- Push lock housing 2 up, making sure that the latch toggle grips firmly on the carrier.
- To secure the lock, turn the key clockwise and remove.

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General instructions

The "Maintenance" chapter describes straightforward procedures for checking and replacing certain wear parts.

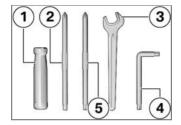
Special tightening torques are listed as applicable. The tightening torques for the threaded fasteners on your motorcycle are listed in the section entitled "Technical data".

You will find information on more extensive maintenance and repair work in the Repair Manual on DVD for your motorcycle, which is available from your authorised BMW Motorrad dealer.

Some of the work calls for special tools and a thorough knowledge of motorcycle technology. If you are in doubt consult a specialist workshop, preferably your authorised BMW Motorrad dealer.

Toolkit

Standard toolkit



- **1** Screwdriver handle
- 2 Reversible screwdriver blade With star-head and plaintip ends
 - Replacing turn indicator bulbs, front and rear (** 107).
 - Replacing number-plate light bulbs (** 109).
 - Removing battery115).

- Open-ended spanner Width across flats 17
- Adjusting mirror arm (44).
- Torx wrench, T40
 - Adjusting headlight beam throw (** 48).
- 5 Reversible screwdriver blade With star-head and Torx T25
 - Remove the centre trim panel (→ 110).

Tools service set

with service toolkit^{OA}



RMW Motorrad has assembled a tools service set that is ideal. for carrying out extended service work (e.g. removing and installing wheels) on this motorcycle. You can obtain the tools set from vour authorised BMW Motorrad dealer.

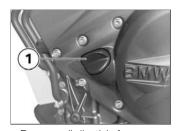
Engine oil Checking engine oil level

The engine can seize if the oil level is low, and this can lead to accidents.

Always make sure that the oil level is correct.◀

The oil level varies with the temperature of the oil. The higher the temperature, the higher the level of oil in the sump. Checking the oil level with the engine cold or after no more than a short ride will lead to misinterpretation: this in turn, means that the engine will be operated with the incorrect quantity of oil. In order to ensure that the engine oil level is read correctly. check the oil level only after a lengthy trip.◀

- Wipe the area around the oil filler neck clean.
- Allow the engine to idle until the fan starts up, then allow it to idle one minute longer.
- Switch off the engine.
- Make sure the engine is at operating temperature and hold the motorcycle upright.
- with centre stand OE
- Check that the engine is at operating temperature, make sure

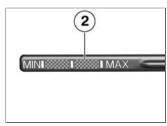


the ground is level and firm

centre stand.⊲

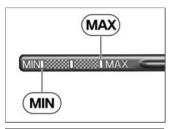
and place the motorcycle on its

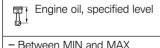
• Remove oil dipstick 1.



 Use a dry cloth to wipe gauge length 2 clean

- Seat the oil dipstick on the oil filler neck, but do not engage the threads.
- Remove the oil dipstick and check the oil level.





If the oil level is below the MIN mark:

marks

• Top up the engine oil (86).

If the oil level is above the MAX mark:

- Have the oil level corrected by a specialist workshop, preferably an authorised BMW Motorrad dealer.
- Install the oil dipstick.

Top up the engine oil

- Make sure the ground is level and firm and place the motorcycle on its stand.
- Wipe the area around the filler neck clean.



Remove oil dipstick 1.

Damage to the engine can result if it is operated without enough oil, but the same also applies if the oil level is too high.

Always make sure that the oil level is correct.◀

- Top up the engine oil to the specified level.
- Checking engine oil level (\$\infty\$ 85).
- Install the oil dipstick.

Brake system Check operation of the brakes

- Pull the handbrake lever.
- » The pressure point must be clearly perceptible.
- Press the footbrake lever.
- » The pressure point must be clearly perceptible.

If pressure points are not clearly perceptible:

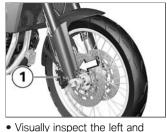
Incorrect working practices endanger the reliability of the brakes.

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.

Check the front brake pad thickness

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



right brake pads to ascertain their thickness. Viewing direction: between wheel and front suspension toward brake calipers 1.



Brake-pad wear limit, front

- min 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:

Brake pads worn past the minimum permissible thickness can cause a reduction in braking efficiency and under certain circumstances they can

8

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Maintenanc

cause damage to the brake system.

In order to ensure the dependability of the brake system, do not permit the brake pads to wear past the minimum permissible thickness.◀

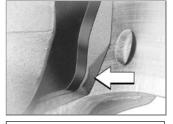
 Have the brake pads replaced by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Checking 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 caliper 1.



Brake-pad wear limit, rear

- min 1.0 mm (Friction pad only, without backing plate. The wear indicators must be clearly visible.)

If the wear indicating mark is no longer visible:

certain circumstances they can



Brake pads worn past the minimum permissible thickness can cause a reduction in braking efficiency and under

cause damage to the brake system

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 the brake-fluid level, front brakes

A low fluid level in the brake reservoir can allow air to penetrate the brake system. This significantly reduces braking efficiency.

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.⊲

 Move the handlebars to the straight-ahead position.



· Check the brake fluid level in front reservoir 1.

Wear of the brake pads causes the brake fluid level in the reservoir to sink.◀



Brake fluid level, front (visual inspection)

DOT4 brake fluid

- It is impermissible for the brake fluid level to drop below the MIN mark.

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 dealer.



Maintenance

Check the brake-fluid level, rear brakes

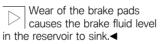
A low fluid level in the brake reservoir can allow air to penetrate the brake system. This significantly reduces braking efficiency.

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 rear reservoir **1**.





Brake fluid level, rear (visual inspection)

DOT4 brake fluid

 It is impermissible for the brake fluid level to drop below the MIN mark.

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 dealer. cycle on its stand.



Check the coolant level in expansion tank 1. Viewing direction: From in front, between windscreen and right side panel.



Coolant, specified level

- Antifreeze
- between MIN and MAX marks on the expansion tank

If the coolant drops below the permitted level:

• Top up the coolant.

Topping up coolant



- Open cap 1 of the expansion tank.
- Using a suitable funnel, top up with coolant until the level is correct.
- Close the cap of the expansion tank.

Clutch

Checking clutch operation

- Pull the clutch lever.
- » The pressure point must be clearly perceptible.

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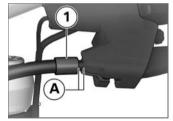
Maintenance

If the pressure point is not clearly perceptible:

 Have the clutch checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Check the clutch play

 Turn the handlebars all the way to left



• Pull clutch cable **1** as far as possible away from the clutch lever.

 Measure clutch play A between the handlebar fitting and the clutch cable.



 3 mm (Handlebars turned fully left, between handlebar fitting and clutch cable)

Clutch play is out of tolerance:

• Adjusting clutch play (92).

Adjusting clutch play



- Slacken nut 3.
- To increase clutch play: screw nut 2 up.

- To reduce clutch play: screw nut 2 down.
- Check the clutch play (92).
- Repeat the steps in this procedure until clutch play is set correctly.
- Tighten nut 3.

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 damaged rims checked and, if necessary, replaced by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Checking spokes

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

- Draw the handle of a screwdriver or a similar instrument across the spokes and listen to the notes of the individual spokes.
- If the notes vary:
- Have the spokes checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Check the tyre tread depth

and grip can be impaired even before the tyres wear to the minimum tyre tread depth permitted by law.

Your motorcycle's handling

Have the tyres changed in good time before they wear to the minimum permissible tread depth.◀

 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. Tyres have wear indicators

integrated into the main tread grooves. The tyre is worn out when the tyre tread has worn

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

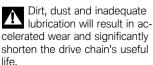
down to the level of the marks.

If the tyre tread is worn to minimum:

 Replace tyre or tyres, as applicable.

Chain

Lubricating chain



 Lubricate the drive chain every 1000 km at the latest. Lubricate the chain more frequently if the motorcycle is ridden in wet, dusty or dirty conditions.⊲

Clean and lubricate the drive

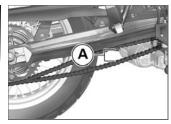
chain at regular intervals.

✓

- Switch the ignition off and select neutral. Clean the drive chain with a
- suitable cleaning product, dry it and apply chain lubricant.
- Wipe off excess lubricant.

Checking chain sag

- Make sure the ground is level and firm and place the motorcycle on its stand.
- Turn the rear wheel until it reaches the position with the lowest amount of chain sag.



 Use a screwdriver to push the chain up and down and measure difference A.

Chain deflection

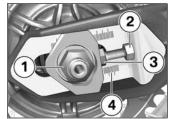
 35...45 mm (Motorcycle with no weight applied, supported on its side stand)

If measured value is outside permitted tolerance:

• Adjusting chain sag (94).

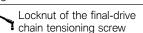
Adjusting chain sag

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



- Slacken quick-release axle nut 1.
- Slacken locknuts 2 on left and right.
- Use adjusting screws **3** on left and right to adjust chain sag.
- Checking chain sag (93).
- Make sure that scale readings 4 are the same on left and right.

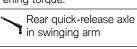
 Tighten locknuts 2 on left and right.



- 19 Nm

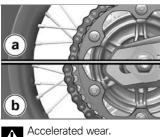
- 100 Nm

• Tighten quick-release axle nut **1** to the specified tightening torque.



Checking chain wear

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



Accelerated wear.

If a component of the sprocket with mounting parts is found to be worn, the entire set has to be replaced.

- Pull the chain back at the rearmost point of the sprocket.
- » The top of the teeth are still between the chain links (a): the chain is OK.
- » The chain is being pulled out over the top of the teeth (b): contact a specialist workshop, preferably an authorised BMW Motorrad dealer.

Wheels

Tyre recommendation

For each size of tyre BMW Motorrad tests certain makes. and approves those that it certifies as roadworthy. If BMW Motorrad has not approved the wheels and tyres, it cannot assess their suitability or provide any quarantee of road safety. Use only wheels and tyres approved by BMW Motorrad for your type of motorcycle. You can obtain detailed information from your authorised BMW Motorrad dealer or on the Internet at www.bmw-motorrad.com.

Effect of wheel size on ABS

Wheel size is very important as a parameter for the ABS. In particular, the diameter and the width of a motorcycle'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 exworks, 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.

Removing front wheel

- Make sure the ground is level and firm and place the motorcycle on its stand.
- with BMW Motorrad ABSOE



 Remove screw 1 and remove the speed sensor from its bore.



Once the calipers have been removed, there is a risk of the brake pads being pressed together to the extent that they cannot be slipped back over the brake disc on reassembly.

Do not operate the handbrake lever when the brake calipers have been removed. ◀

 Remove screws 2 from the right brake caliper.



- Force the brake pads 3 slightly apart by rocking brake caliper 4 back and forth against brake disc 5.
- Mask off the parts of the wheel rim that could be scratched in the process of removing the brake calipers.
- Carefully pull the brake calipers back and out until clear of the brake discs.
- 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.⊲
- Raise front of motorcycle until the front wheel can turn freely. BMW Motorrad recommends the BMW Motorrad front-wheel stand for lifting the motorcycle. Install the front-wheel stand
- (103).



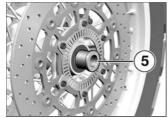
 Slacken right axle clamping screws 1.



- Slacken left axle clamping screws 3.
- Push the axle in as far as it will go.



- ing the wheel.
- Do not remove the grease from the axle.
- Roll the front wheel forward to remove.

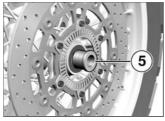


 Remove spacing bushing 5 from the left-hand side of the wheel hub.

Installing front wheel

Threaded fasteners not tightened to the specified torque can work loose or their threads can suffer damage.

Always have the security of the fasteners checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.

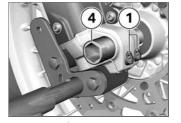


 Slip spacing bushing 5 onto the left-hand side of the wheel hub.

The front wheel must be installed right way round to rotate in the correct direction.

Note the direction-of-rotation arrows on the tyre or the wheel rim.

 Roll the front wheel into position between the forks, making sure that the brake disc passes between the brake pads of the brake caliper on the left.



- Raise the front wheel and insert axle 4 until seated.
- Tighten right axle clamping screws 1 to the specified tightening torque or install a suitable tool to counter-hold for the next step in the assembly procedure.

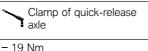


Clamp of quick-release axle

- Tightening sequence: 2x each side, alternately
- 19 Nm



- en to the specified tightening torque.
- Quick-release axle, front, in axle holder
- 30 Nm
- Tighten left axle clamping screws 3 to the specified tightening torque.
 - Clamp of quick-release 🛚 axle
- Tightening sequence: 2x each side, alternately

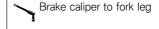




- If fully tightened beforehand, slacken right axle clamping screws 1 again.
- Remove the front-wheel stand.
- with centre stand OE
- Remove the auxiliary stand.
- Ease the right brake caliper onto the brake disc.



 Tighten screws 2 to the specified tightening torque.



- 38 Nm

with BMW Motorrad ABS^{OE}



- Insert the ABS sensor into its bore and install screw 1.⊲
- Remove the adhesive tape from the wheel rim.
- Operate the brake several times until the brake pads are bedded.
- Firmly compress the front forks several times.



• Tighten right axle clamping screws 1 to the specified tight-ening torque.



Clamp of quick-release

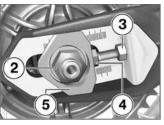
- Tightening sequence: 2x each side, alternately
- 19 Nm

Remove the rear wheel

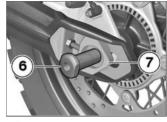
 Make sure the ground is level and firm and place the motorcycle on its stand.



- Remove screw 1 and remove the speed sensor from its bore.
- Make sure the ground is level and firm and 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.



- Remove axle nut 2.
- Slacken locknuts 3 on left and right by turning them counterclockwise.
- Back off adjusting screws 4 on left and right by turning them counter-clockwise.
- Remove adjusting plate 5 and push the axle in as far as it will go.



 Remove quick-release axle 6 and remove adjusting plate 7.



Roll the rear wheel as far forward as possible and disengage chain 8 from the sprocket.

The sprocket and the spacer sleeves on left and right are loose fits in the wheel. Make sure that these parts are not damaged or lost on removal.

Roll the rear wheel back until it.

is clear of the swinging arm.

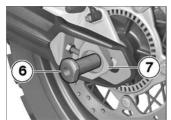
Installing rear wheel

Threaded fasteners not tightened to the specified torque can work loose or their threads can suffer damage. Always have the security of the fasteners checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.

 Roll the rear wheel into the swinging arm, making sure that the brake disc passes between the brake pads.



 Roll the rear wheel as far forward as possible and loop chain 8 over the sprocket.

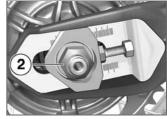


 Seat left adjusting plate 7 in the swinging arm and install quick-release axle 6 in the brake caliper and the rear wheel.

 Make sure that the axle fits into the recess of the adjusting plate.



• Install right adjusting plate 5.



- Install nut **2**, but do not tighten it at this point.
- without centre stand OE
- Remove the auxiliary stand.⊲



 Insert the speed sensor into the bore and install screw 1.

• Adjusting chain sag (••• 94).

Front-wheel stand Install the front-wheel stand

The BMW Motorrad front wheel stand is not designed to support the motorcycle without the assistance of an auxiliary stand. A motorcycle resting only on the front wheel

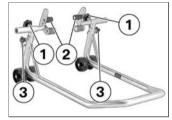
stand and the rear wheel can

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

topple.

 Make sure the ground is level and firm and place the motorcycle on its centre stand. Use basic stand with tool number (0 402 241) in combination with front-wheel adapter (0 402 242).



- Slacken adjusting screws 1.
- Push the two adapters 2 apart until the front forks fit between them. Adjust the adapter studs to suit the front suspension.
- Use locating 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 adjusting screws 1.



- Apply uniform pressure to push the front-wheel stand down and raise the motorcycle.
- with centre stand OE

If the motorcycle is raised too far the centre stand will lift clear of the ground and the motorcycle could topple to one side.

When raising the motorcycle, 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.

Bulbs General instructions

A warning appears in the multifunction display if a bulb is defective.

A defective bulb places your safety at risk because it is easier for other users to oversee the motorcycle.

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

The bulb is pressurised and can cause injury if damaged.

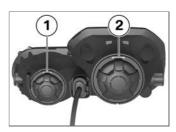
Wear protective goggles and gloves when changing bulbs.◀

The types of bulb fitted to your motorcycle are listed

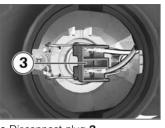
in the section entitled "Technical data".◀

Replacing low-beam and high-beam headlight bulb

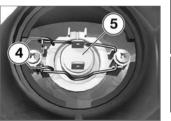
- Make sure the ground is level and firm and place the motorcycle on its stand.
- Switch off the ignition.



 Remove cover 1 for the highbeam headlight or cover 2 for the low-beam headlight.



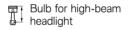
Disconnect plug 3.



- Disengage spring clips 4 from the fastenings and swing them aside.
- Remove bulb 5.

 Replace the defective bulb. Do not touch the glass of new bulbs with your fingers. Use a clean, dry cloth to hold the bulbs when handling them. Dirt deposits, in particular oil and grease, interfere with heat radiation from the bulb. This leads to overheating and shortens the bulb's operating life.

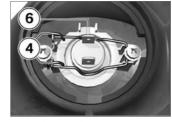
✓



- H7 / 12 V / 55 W

Bulbs for the low-beam headlight

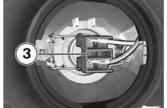
- H7 / 12 V / 55 W

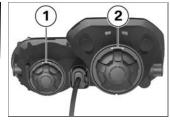


- Install the bulb, making sure that alignment is correct at position 6.
- Close and lock spring clips 4.



Connect plug 3.

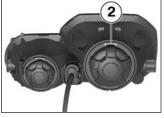




• Install cover **1** or cover **2**, as applicable.

Replacing parking-light bulb

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



Remove cover 2.



 Pull parking-light bulb 3 out of the headlight housing.



Remove the bulb from the bulb.

- holder.
- Replace the defective bulb.

Do not touch the glass of new bulbs with your fingers. Use a clean, dry cloth to hold the bulbs when handling them. Dirt deposits, in particular oil and grease, interfere with heat radiation from the bulb. This leads to overheating and shortens the bulb's operating life.◀

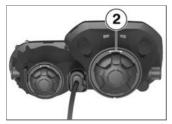
- W5W / 12 V / 5 W



 Push the bulb into the bulb socket.



• Insert parking-light bulb **3** into the headlight housing.



• Install cover 2.

Replacing brake light and rear light bulb

 The LED rear light can be replaced only as a complete unit.
 Consult a specialist workshop, preferably an authorised BMW Motorrad dealer.

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Replacing turn indicator bulbs, front and rear

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



Remove screw 1.





• Pull the glass out of the reflector housing at the threadedfastener side.



 Turn bulb 2 counter-clockwise and remove it from the bulb housing.

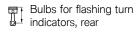
- Replace the defective bulb.
- Do not touch the glass of new bulbs with your fingers. Use a clean, dry cloth to hold the bulbs when handling them.

Dirt deposits, in particular oil and grease, interfere with heat radiation from the bulb. This leads to overheating and shortens the



Bulbs for flashing turn indicators, front

- R10W / 12 V / 10 W
- with white turn indicators OE
- RY10W / 12 V / 10 W⊲
- with LED turn indicators OA
- I FD / 12 V⊲



- R10W / 12 V / 10 W
- with white turn indicators OE



Bulbs for flashing turn indicators, rear

- RY10W / 12 V / 10 W⊲
- with LED turn indicators OA
- LED / 12 V⊲



 Turn bulb 2 clockwise to install. it in the bulb housing.



 Working from the inboard side, insert the glass into the bulb housing and close the housing.



Install screw 1.

Replacing number-plate light bulbs

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



 Remove screw 1 from the mudguard cover and remove the cover.



 Pull bulb holder 2 out of the light carrier.



 Pull the bulb out of the bulb socket. Replace the defective bulb.

Do not touch the glass of new bulbs with your fingers.

Use a clean, dry cloth to hold the bulbs when handling them. Dirt deposits, in particular oil and grease, interfere with heat radiation from the bulb. This leads to overheating and shortens the bulb's operating life.

✓

Bulb for number-plate light

- W5W / 12 V / 5 W



 Insert the bulb into the bulb socket.



 Seat bulb holder 2 in the light carrier.



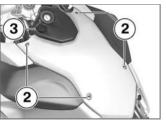
• Hold the mudguard cover in position and install screw 1.

Body panels Remove the centre trim panel

Remove the seat (** 48).



 Remove screws 1 on left and right.



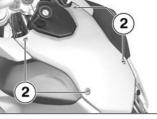
- Remove four screws 2.
- Disconnect the plug from socket **3**.
- Remove the centre trim panel.

Installing centre trim panel

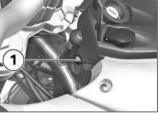
• Connect the plug to the socket.



 Manoeuvre the centre trim panel into position. Make sure that all three tabs 4 on left and right engage the side panels.



• Install four screws 2.



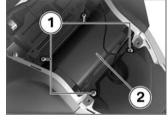
- Install screws 1 on left and right.
- Installing seat (49).



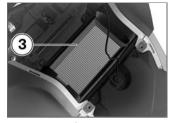
5 12

Air filter Removing air filter

 Remove the centre trim panel (m) 110).

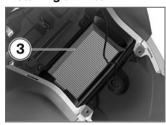


- Remove screws 1.
- Remove air-filter cover 2.

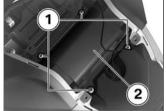


Remove air filter 3.

Installing air filter



• Install air filter 3.



- Hold air-filter cover 2 in position.
- Install screws 1.
- Installing centre trim panel
 111).

Jump starting

The wires leading to the power socket do not have a load-capacity rating adequate for jump-starting the engine. Excessively high current can lead to a cable fire or damage to the vehicle electronics.

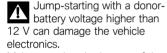
Do not use the on-board socket

to jump-start the engine of the

A short-circuit can result if the crocodile clips of the jump leads are accidentally brought into contact with the motorcycle.

motorcycle.◀

Use only jump leads fitted with fully insulated crocodile clips at both ends.◀



Make sure that the battery of the donor vehicle has a voltage rating of 12 V.◀

- Remove the centre trim panel (**1**10).
- When jump-starting the engine, do not disconnect the battery from the on-board electrical system.



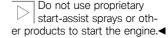
- of the red jump lead to the positive terminal of the discharged battery and the other end to the positive terminal of the donor battery (positive on this vehicle: position 2). Then connect one end of the
 - black jump lead to the negative terminal of the donor battery and the other end to the negative terminal of the discharged battery (negative on this vehicle: position 1).

the battery's negative terminal. ◀ Run the engine of the donor

The spring-strut screw can

be used as an alternative to

- 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.



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 Installing centre trim panel (**+** 111).

Batterv

Maintenance instructions

Correct upkeep, recharging and storage will prolong the life of the battery and are essential if warranty claims are to be considered.

low is important in order to maximise battery life:

Compliance with the points be-

- 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

If the battery is not disconnected, the on-board electronics (e.g. clock, etc.) gradually drain the battery. This can cause the battery to run flat. If this happens, warranty claims will not be accepted.

If the motorcycle is to be out of use for more than four weeks, disconnect the battery or connect a suitable trickle charger to the battery.◀

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 vour authorised BMW Motorrad dealer.◀

Charge the battery when connected



Charging the connected Charging the connected battery directly at the battery terminals can damage the vehicle electronics.

Always disconnect the battery from the on-board circuits before recharging it with a charger connected directly to the battery posts.◀



Only chargers suitable for this mode of charging can be used to recharge the battery via the on-board socket. Unsuitable chargers could cause damage to the motorcycle's on-board

electrics. Use BMW chargers with the part numbers 71 60 7 688 864 (220 V) or, as applicable. 71 60 7 688 865 (110 V). If you are in doubt, disconnect the battery from the on-board

If you are unable to charge before restoring it to use◀ the battery through the on-

- Removing battery
- Make sure the ground is level and firm and place the motorcycle on its stand.
- with anti-theft alarm OE
- If applicable, switch off the antitheft alarm.<☐
- Switch off the ignition.
- Remove the centre trim panel (****** 110).

If you switch on the ignition and the multifunction display and telltale lights fail to

directly to the battery.◀

light up, the battery is completely flat. Attempting to charge a completely flat battery via the on-

systems and connect the charger

board socket can cause damage to the motorcycle's electronics. If a battery has discharged to the extent that it is completely flat, it

has to be disconnected from the on-board circuits and charged with the charger connected directly to the battery posts.◀

Charge via the power sock-

et, with the battery connected

to the motorcycle's on-board electrical system. The motorcycle's on-board electronics know when the battery is fully charged. The on-board socket is switched off

when this happens.◀

The battery has to be recharged at regular intervals in the course of a lengthy period

structions of the charger.

board socket, you may be using

a charger that is not compatible

with your motorcycle's electron-

ics. If this happens, disconnect

systems and connect the charger

the battery from the on-board

Charging battery when

Charge the battery using a

structions of the charger.

charged, disconnect the

Once the battery is fully

the battery terminals.

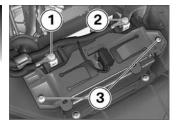
Comply with the operating in-

charger's terminal clips from

directly to the battery.◀<

disconnected

suitable charger.



Disconnection in the wrong sequence increases the risk of short-circuits.

Always proceed in the correct sequence.◀

- Disconnect negative lead 1 first.
- Then disconnect positive lead 2.
- Remove screws 3 on left and right and remove the battery holder.
- Lift the battery up and out; work it slightly back and forth if it is difficult to remove.

Installing battery

If the battery was disconnected from the motorcycle for a prolonged period of time it will be necessary to enter the current date in the instrument panel, in order to ensure that the service-due indicator functions correctly.

If you want to have the date set consult a specialist workshop, preferably an authorised BMW Motorrad dealer.◀

- Switch off the ignition.
- Insert the battery into the battery compartment, with the positive terminal on the right in the direction of travel.



- Place the battery holder in position, making sure that the leads are correctly routed at position 4.
- Install screws 3 on left and right.



Connection in the wrong sequence increases the risk of short-circuits.

Always proceed in the correct seauence.

- Connect positive lead 2 to the battery's positive terminal.
- Connect negative lead 1 to the battery's negative terminal.



Care

Care products	120
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Protective wax coating	122
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Restoring motorcycle to use	122

9 119

Care

Care products

BMW Motorrad recommends that you use the cleaning and care products you can obtain from your authorised BMW Motorrad dealer. 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.

The use of unsuitable cleaning and care products can damage vehicle components. Do not use solvents such as cellulose thinners, cold cleaners. fuel or the like, and do not use cleaning products that contain alcohol.◀

Washing motorcycle

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 motorcycle.

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

Make sure that the motorcycle is washed frequently, especially during the winter months.

To remove road salt, clean the motorcycle with cold water immediately after every trip.

After the motorcycle been washed, ridden After the motorcycle has through water or ridden in the rain, the brake discs and pads might be wet and the brakes might not take effect immediately.

Apply the brakes in good time until the brake discs and brake pads have dried out.◀



Warm water intensifies the effect of salt.

Use only cold water to wash off road salt.◀

The high pressure of steam cleaners can damage seals, the hydraulic brake system, the electrical system, and the seat. Do not use a steam jet or highpressure cleaning equipment.◀

Cleaning easily damaged components **Plastics**

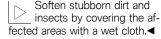
Clean plastic parts with water and BMW plastic care emulsion. This includes in particular:

- Windscreen and slipstream deflectors
- Headlight lens made of plastic
- Glass of the instrument panel
- Black, unpainted parts

Do not use cleaning agents that

contain alcohol, solvents or abrasives to clean plastic parts. Even fly-remover pads or cleaning pads with hard surfaces can produce scratches.

✓



Chrome

Use plenty of water and BMW shampoo to clean chrome, particularly if it has been exposed to road salt. Use chrome polish for additional treatment.

Radiator

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



Cooling fins can be bent easily.

Take care not to bend the fins. when cleaning the radiator.◀

Rubber

Treat rubber components with water or BMW rubber-care products.



Using silicone sprays for the care of rubber seals can cause damage.

Do not use silicone sprays or other care products that contain silicon.◀

Paint care

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

Remove particularly aggressive substances immediately, however, as otherwise the paint can be affected or become discoloured. Substances of this nature include spilt fuel, oil, grease, brake fluid and bird droppings. We recommend BMW vehicle polish or BMW paint cleaner for this purpose.

Marks on the paintwork are particularly easy to see after the motorcycle has been washed. Remove stains of this kind immediately, using cleaning-grade benzene or petroleum spirit on a clean cloth or ball of cotton wool. 9

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BMW tar remover for removing specks of tar. Remember to wax the parts treated in this way.

Protective wax coating

BMW Motorrad recommends

BMW Motorrad recommends applying only BMW car wax or products containing carnauba wax or synthetic wax.

It is time to rewax the paintwork when water "puddles" on the surface, instead of forming beads.

Laying up motorcycle

- Clean the motorcycle.
- Removing battery (- 115).
- Spray the brake and clutch lever pivots, the side stand pivots and the centre stand pivots (if the motorcycle is fitted with a centre stand) with a suitable lubricant.

- Coat bright metal and chromeplated 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.

Before laying the vehicle up out of use, have the engine oil and the oil filter element changed by a specialist workshop, preferably an authorised BMW Motorrad dealer. Combine work for laying up/restoring to use with a BMW service or inspection.

Restoring motorcycle to use

- Remove the protective wax coating.
- Clean the motorcycle.
- Install a charged battery.
- Before starting: work through the checklist.

Technical data

Technical data		
troubleshooting chart	124	Riding specifications
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troubleshooting chart Engine does not start at all or is difficult to start. 124 Possible cause Rectification Emergency off switch (kill switch) Kill switch in operating position (run). Side stand Retract the side stand (\$\infty\$ 54). Select neutral or pull the clutch lever (\$\infty\$ 54). Gear engaged and clutch not disengaged. data Clutch pulled before ignition was switched on Switch on the ignition, then pull the clutch lever. echnical No fuel in tank Refuelling (60). Battery flat Charge the battery when connected (114).

Threaded fasteners		
Front wheel	Value	Valid
Brake caliper to fork leg		
ASA screw with washer, M10 x 40	38 Nm	
Clamp of quick-release axle		
M8 x 25	2x each side, alternately	
	19 Nm	
Quick-release axle, front, in axle holder		
M14 x 1.5	30 Nm	
Rear wheel	Value	Valid
Locknut of the final-drive chain tensioning screw		
M8	19 Nm	
Rear quick-release axle in swinging arm		
M16 x 1.5	100 Nm	

10	Mirror arm	Value	Valid
126	Locknut (mirror) to clamp adapter		
	M14 x 1	20 Nm	
	Clamp adapter (mirror) to clamping block		
data	M10	30 Nm	
Technical d			

82 mm

12:1

75.6 mm

max 9000 min-1

1250+50 min-1

63 kW, at engine speed: 7500 min⁻¹

61 kW, at engine speed: 7500 min⁻¹

83 Nm, at engine speed: 5750 min⁻¹

81 Nm. at engine speed: 5750 min⁻¹

Cylinder bore

Piston stroke

Compression ratio

Maximum engine speed

- with regular unleaded (RON 91)^{OE}

with regular unleaded (RON 91)^{OE}

Nominal output

Torque

Idle speed

Recommended fuel grade	Super unleaded 95 ROZ/RON 89 AKI
– with regular unleaded (RON 91) ^{OE}	Regular unleaded (slight power- and consumption-related restrictions) 91 ROZ/RON 87 AKI
Usable fuel capacity	approx. 16 l
Reserve fuel	approx. 4 l

suitable engine oil for your motorcycle.

BMW recommends (Castrol

10	Clutch	
130	clutch type	Multiplate clutch running in oil bath
100	Transmission	
Ø	gearbox type	Claw-shift 6-speed gearbox, integrated into engine block
Technical data	Gearbox transmission ratios	1.943 (35/68 teeth), Primary transmission ratio 1:2.462 (13/32 teeth), 1st gear 1:1.750 (16/28 teeth), 2nd gear 1:1.381 (21/29 teeth), 3rd gear 1:1.174 (23/27 teeth), 4th gear 1:1.042 (24/25 teeth), 5th gear 1:0.960 (25/24 teeth), 6th gear

Brakes Front wheel

Type of front brake

Brake-pad material, front

Rear wheel

Type of rear brake

Brake-pad material, rear

Wheels and tyres Recommended tyre sets

Front wheel

Tyre designation, front

front wheel type front wheel rim size

Spoked wheel, MT H2 2.15" x 21"

Sintered metal

Organic material

floating caliper and fixed disc

90 / 90 - 21

Hydraulically operated twin disc brake with 2-piston floating calipers and floating brake discs

Hydraulically operated disc brake with 1-piston

You can obtain an up-to-date list of approved tyres from your authorised BMW Motorrad dealer or on the Internet at "www.bmw-motorrad.com".

Rear wheel		10
rear-wheel type	Spoked wheel, MT H2	
rear wheel rim size	4.25" x 17"	133
Tyre designation, rear	150 / 70 - 17	
Tyre pressure		-
Tyre pressure, front	2.2 bar, one-up, at tyre temperature: 20 °C 2.4 bar, two-up and/or with luggage, at tyre temperature: 20 °C	l data
Tyre pressure, rear	2.4 bar, one-up, at tyre temperature: 20 °C 2.8 bar, two-up and/or with luggage, at tyre temperature: 20 °C	echnica

Electrical rating of on-board socket	5 A
Fuses	Electronic fuses protect all the circuits. If an electronic fuse trips and de-energises a circuit, the circuit is active as soon as the ignition is switched on after the fault has been rectified.
Battery	
pattery type	AGM (Absorbent Glass Mat) battery
oattery rated voltage	12 V
battery rated capacity	14 Ah
Spark plugs	

battery rated capacity	14 Ah
Spark plugs	
Spark plugs, manufacturer and designation	NGK DCPR 8 E
Electrode gap of spark plug	0.80.9 mm, When new
Lighting	
Dulle for letale to a see to a alltate.	117 / 10 / / / 55 / M

battery rated capacity	14 Ah
Spark plugs	
Spark plugs, manufacturer and designation	NGK DCPR 8 E
Electrode gap of spark plug	0.80.9 mm, When new
Lighting	
Bulb for high-beam headlight	H7 / 12 V / 55 W
Bulbs for the low-beam headlight	H7 / 12 V / 55 W
Bulb for parking light	W5W / 12 V / 5 W
Bulb for tail light/brake light	LED / 12 V

Bulb for number-plate light W5W / 12 V / 5 W

R10W / 12 V / 10 W

 with white turn indicators OE 	RY10W / 12 V / 10 W	10
- with LED turn indicators OA	LED / 12 V	10
Bulbs for flashing turn indicators, rear	R10W / 12 V / 10 W	135
- with white turn indicators ^{OE}	RY10W / 12 V / 10 W	
– with LED turn indicators OA	LED / 12 V	
Frame		data
Frame type	tubular spaceframe	
type plate location	Steering head, front top	Ji.
VIN location	Steering head, right	ech
	•	<u> </u>

10	Dimensions	
Technical data	Length of motorcycle	2320 mm, across front wheel to number-plate carrier
	Height of motorcycle	1350 mm, without rider at DIN unladen weight
	Width of motorcycle	870 mm, across mirrors without mirrors
	Front-seat height	880 mm, Without rider at unladen weight
	- with dual seat, low OE	850 mm, Without rider at unladen weight
	rider's inside-leg arc, heel to heel	1940 mm
	– with dual seat, low ^{OE}	1900 mm, Without rider at unladen weight
	Weights	
	Unladen weight	207 kg, DIN unladen weight, ready for road, 90 % load of fuel, without optional extras
	Permissible gross weight	443 kg
	Maximum payload	236 kg

Top speed

>200 km/h

137

Service

BMW Motorrad service

Confirmation of service 147

11

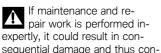
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Service

11 140

BMW Motorrad service

Advanced technology requires specially adapted methods of maintenance and repair.



stitute a safety risk.

BMW Motorrad recommends you to have all the associated work on your motorcycle carried out by a specialist workshop, preferably an authorised BMW Motorrad dealer.

Your authorised BMW Motorrad dealer can provide information on BMW services and the work undertaken as part of each service. Have all maintenance and repair work carried out confirmed in the "Service" chapter in this manual. Authorised BMW Motorrad dealers are supplied with the latest technical information and have

the necessary technical knowhow. BMW Motorrad recommends that you contact your authorised BMW Motorrad dealer if you have questions regarding your motorcycle.

BMW Motorrad service quality

Along with its reputation for en-

gineering quality and high reliability, BMW Motorrad is a byword for excellent quality of service. To ensure that your BMW is always in optimum condition, BMW Motorrad recommends that you have the maintenance work required for your motorcycle carried out regularly, preferably by your authorised BMW Motorrad dealer. For generous treatment of claims submitted after the warranty period has expired, evidence of regular maintenance is essential.

may otherwise not be noticed until it is too late to put them right at moderate cost. Your authorised BMW Motorrad dealer's mechanics know every detail of your motorcycle and can take remedial action if necessary before minor faults develop into serious problems. By having the necessary repairs done properly and in good time, you save time and money in the long run.

Certain signs of wear, moreover,

BMW Motorrad mobility services - roadside assistance

In the event of a breakdown, the BMW Motorrad mobility services available for each new BMW motorcycle enable you to access an extensive range of services such as breakdown assistance, motorcycle transportation etc. (details can differ from country to country). In the event of a breakdown,

"Service Contact Europe" or "Service Contact Africa, America, Asia, Australia, Oceania".

contact the Mobile Service or-

ganisation of BMW Motorrad.

The specialists will provide the

You will find important countryspecific contact addresses and

the after-sales service organisa-

tion phone numbers in the "Ser-

vice Kontakt / Service Contact"

brochures, along with informa-

tion on Mobile Service and the

BMW Motorrad service

BMW Motorrad has an extens-

ive after-sales service network in

place to look after you and your

countries. In Germany alone, you

motorcycle in more than 100

have the best possible access

BMW Motorrad dealers.

to approximately 200 authorised

All information concerning the international dealership network

can be found in the brochure

dealership network.

network

necessary advice and assistance.

Maintenance work **BMW Pre-delivery Check**

Your authorised BMW Motorrad dealer conducts the BMW predelivery check before handing over the motorcycle to you.

to be performed when the motorcycle has covered between 500 km and 1500 km.<

BMW Running-in Check

The BMW running-in check has

BMW Service

The BMW Service is carried out once a year; the extent of servicing can vary, depending on the age of the motorcycle and the distance it has covered. Your authorised BMW Motorrad dealer confirms that the service work has been carried out and enters

will be due. Riders who cover long distances 141 in a year might have to bring in

their motorcycles for service before the next scheduled date. It is to allow for these cases that a maximum odometer reading is entered as well in the confirma-

tion of service. Servicing has to

be brought forward if this odo-

meter reading is reached before

the next scheduled date for the

service.

the date when the next service

The service-due indicator in the multifunction 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.⊲

11
142

Confirmation of maintenance work

BMW Pre-delivery Check

Completed

ed

BMW Running-in Check

Completed

Completed

Odometer reading_

Next service at the latest

l<u>.</u>

or, if logged beforehand,

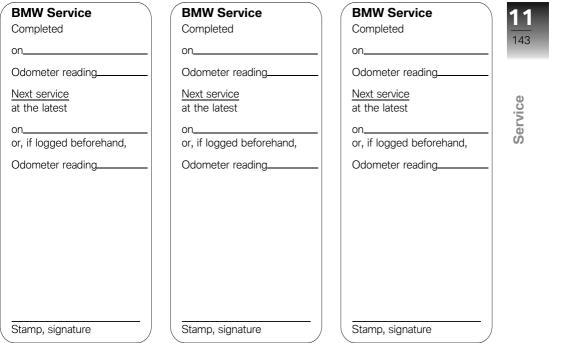
Odometer reading_____

Odo

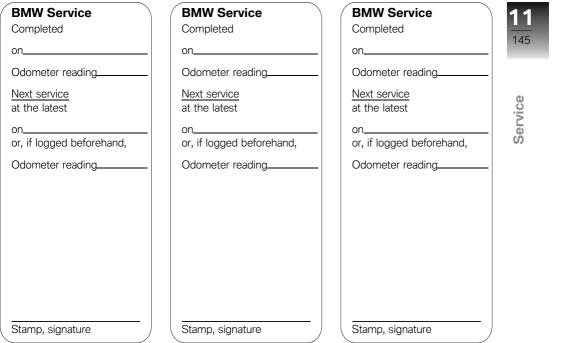
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Servic

Stamp, signature



11	BMW Service	BMW Service	BMW Service
144	Completed	Completed	Completed
144	on	on	on
	Odometer reading	Odometer reading	Odometer reading
/ice	Next service at the latest	Next service at the latest	Next service at the latest
Service	on or, if logged beforehand,	on or, if logged beforehand,	on or, if logged beforehand,
	Odometer reading	Odometer reading	Odometer reading
	Stamp, signature	Stamp, signature	Stamp, signature



11	BMW Service	BMW Service	BMW Service
146	Completed	Completed	Completed
140	on	on	on
	Odometer reading	Odometer reading	Odometer reading
/ice	Next service at the latest	Next service at the latest	Next service at the latest
Service	on or, if logged beforehand,	on or, if logged beforehand,	on or, if logged beforehand,
	Odometer reading	Odometer reading	Odometer reading
	Stamp, signature	Stamp, signature	Stamp, signature

Confirmation of service

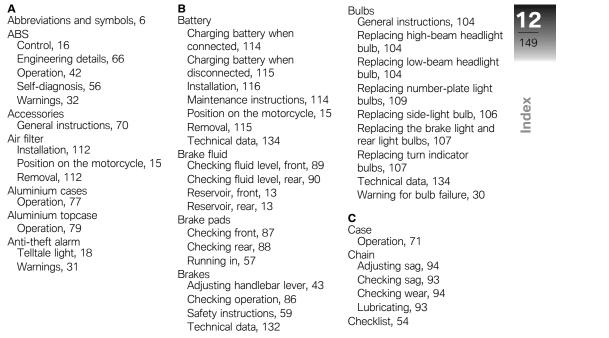
The table is intended as a record of maintenance and repair work, the installation of optional accessories and if appropriate special campaign (recall) work

Item	Odometer reading	Date	

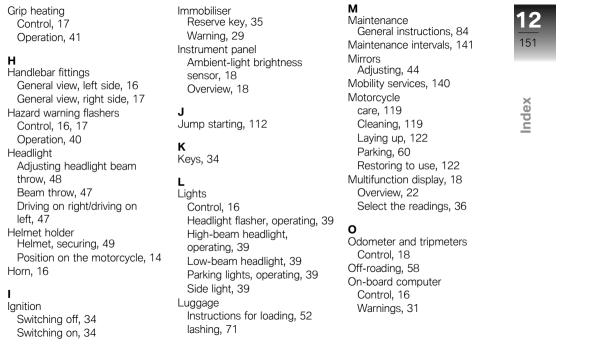
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Service

11	Item	Odometer reading	Date
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ice			
Service			



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