

### Motorcycle/Retailer Data

Motorcycle data	Retailer Data
Model	Contact in Service
Vehicle Identification Number	Ms./Mr.
Color number	Phone number
First registration	-
Registration number	Retailer's address/phone number (company stamp)

#### Welcome to BMW

We congratulate you on your choice of a motorcycle from BMW and welcome you to the community of BMW riders. Familiarize vourself with your new motorcycle so that you can ride it safely and confidently in all traffic situations. Please read this Rider's Manual 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.

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

authorized BMW Motorrad retailer will gladly provide advice and assistance.

We wish you many miles of safe and enjoyable riding

BMW Motorrad.

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### **General instructions**

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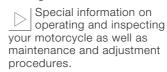
### **Overview**

Chapter 2 of this Rider's Manual will provide you with an initial overview of your motorcycle. All maintenance and repair work carried out on your motorcycle will be documented in Chapter 10. Proof of the maintenance work performed is a prerequisite for generous treatment of claims. Should you want to sell your BMW one day, please also remember to turn over the Rider's Manual to the new owner: it is an important part of your motorcycle.

## Abbreviations and symbols

Indicates warnings you should always observe to ensure your own safety, the safety of others and to

protect your motorcycle from damage.



- Indicates the end of a note.
- Instruction to take action.
- » Results of an action.
- Reference to a page with additional information.
- Indicates the end of accessory or equipment-dependent information.



Tightening torque.



Technical data.

- OE Optional equipment
  The desired BMW optional equipment is
  available only as a factory installed option.
- OA Optional accessories
  BMW optional accessories can be purchased and installed
  at your authorized
  BMW Motorrad retailer
- ABS Anti-Lock Brake System.

### **Equipment**

When you ordered your BMW motorcycle, you chose various items of custom equipment. This Rider's Manual describes optional equipment (OE) offered by BMW and selected optional accessories (OA). This explains why the manual may also contain descriptions of equipment which vou 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 is equipped with options or accessories not described in this Rider's Manual, then this equipment is described in a separate operating manual.

### **Technical data**

All dimensions, weights and outputs in the Rider's Manual refer to the Deutsche Institut für Normung e. V. (DIN) and comply with its tolerance regulations. Versions for individual countries may differ.

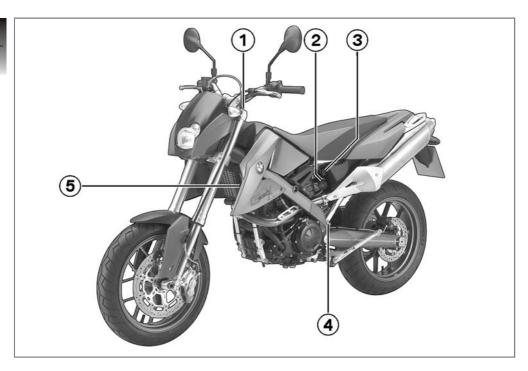
## Currentness of this manual

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. In addition, BMW Motorrad cannot guarantee the total absence of errors. We hope you will appreciate that no claims can be entertained on the basis of

the data, illustrations or descriptions in this manual.

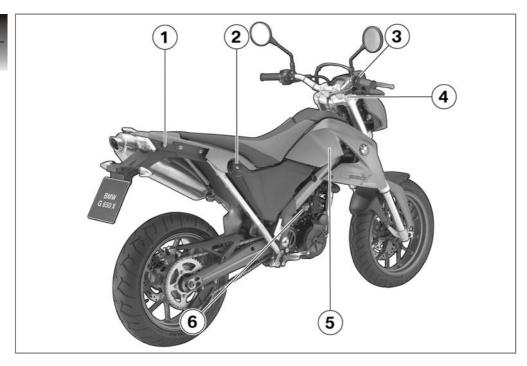
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### General view, left side

- **1** Adjusting front compression (→ 37)
- 2 Adjuster, spring preload, rear ( 36)
- 3 Onboard socket<sup>OE</sup> (→ 56)
- 4 Adjusting rear damping (→ 39)
- 5 Coolant level indicator (→ 67)

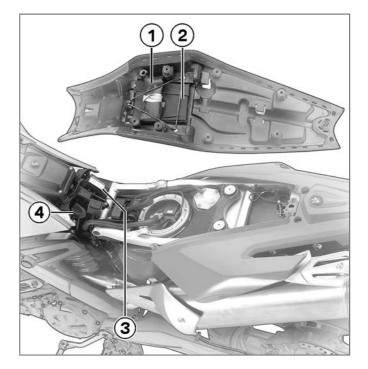


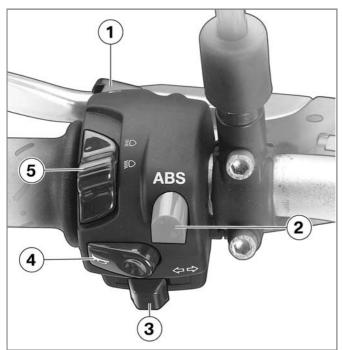
## General view, right side

- **1** Seat lock (→ 33)
- 2 Fill location for fuel (→ 48)
- 3 Brake-fluid reservoir, front (→ 66)
- 4 Adjustment of front rebound (→ 38)
- 5 ABS fuses under side panel<sup>OE</sup> (→ 79)
- 6 Brake-fluid reservoir, rear (→ 67)

### **Underneath seat**

- **1** Toolkit (→ 60)
- 2 Rider's Manual (US Model)
- **3** Fuse box (→ 78)
- 4 Oil dipstick and engineoil fill location (→ 61)



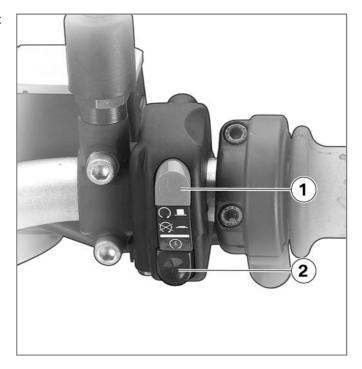


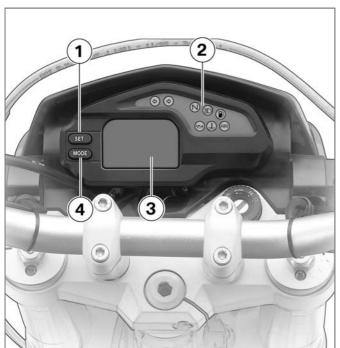
### Left handlebar fitting

- Headlight flasher button
- ABS button<sup>OE</sup> (→ 35)
- Turn indicators (→ 33)
- Horn button
- Light switch (→ 32)

### Handlebar fitting, right

- **1** Emergency ON/OFF switch (→ 31)
- 2 Starter button ( 44)

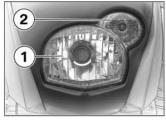




### Instrument cluster

- 1 Setting clock (→ 29) Resetting tripmeter (→ 29)
- 2 Warning and indicator lights (→ 20)
- 3 Multifunction display (→ 20)
- 4 Selecting readings (→ 28)

### Headlight



- 1 Low and high-beam
- 2 Parking lights

### **Status indicators**

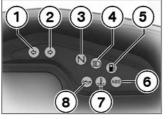
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### Multifunction display



- 1 Speedometer
- 2 Display of odometer, clock or battery voltage (→ 28)

## Warning and indicator lights



- 1 Indicator light, left turn indicator
- 2 Indicator light, right turn indicator
- 3 Indicator light, neutral
- 4 Indicator light, high-beam headlight
- 5 Fuel-reserve warning light ( 22)
- 7 Coolant-temperature warning light (■ 23)

8 Engine oilpressure warning light (\$\infty\$ 22)

# General warning indicators Display

Warnings are indicated by the corresponding warning lights.

Lights up	Fuel down to reserve (> 22)
Lights up	Engine oil pressure insufficient (
Lights up	Coolant temperature too high

Meaning

**Overview of warning indicators** 

#### Fuel down to reserve



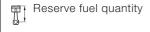
Fuel-reserve warning light lights up.



A fuel shortage can lead to misfiring and to the engine dving unexpectedly. Misfiring can damage the catalytic converter, and the engine dying unexpected can lead to accidents.

Do not drive until the fuel tank is completely empty. ◀

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



- ≥2.1 quarts (≥2 l)

Refueling ( 48)

### Engine oil pressure insufficient



Engine oilpressure warning light lights up.

The oil pressure in the lubricating oil circuit is too low. If the warning light lights up, stop immediately and switch off the engine.

The warning on insufficient engine oil pressure is no substitute for the function of an oil-level indicator. The correct engine oil level can only be checked on the oil dipstick.◀

The cause of the warning on insufficient engine oil pressure can be an insufficient engine oil level.

 Checking engine oil level  $(\implies 61)$ 

If oil level is too low:

 Topping up engine oil 

If the warning on insufficient engine oil pressure appears despite a correct engine oil level:

In addition to an insufficient engine oil level, other problems in the engine can lead to the warning on insufficient engine oil pressure. Continuing to ride in these cases can cause engine damage.

If this warning appears, do not continue to ride even though the engine oil level might be correct.◀

- Do not continue driving.
- Have the malfunction corrected as soon as possible by a specialized workshop, preferably an authorized BMW Motorrad retailer.

#### Coolant temperature too high



Coolant-temperature warning light lights up.

Continued driving with an overheated engine can result in engine damage. Be sure to observe the measures listed below.◀

Coolant level too low.

 Checking coolant level  $(\implies 67)$ 

If coolant level is too low:

Topping up coolant (\$\imp\$ 68)

Radiator fan defective If the radiator fan fails to run with the coolant-temperature warning light switched on:

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

Cooling is insufficient.

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

### **ABS** warning indicators OE

### Display

ABS warnings are indicated by the ABS warning light. The warning light can light up continuously or flash.

### Overview of warning indicators

М	eaning
IVI	carming

ABS Flashes	Self-diagnosis not completed (
ABS Lights up	ABS deactivated (→ 25)
ABS Lights up	ABS error (→ 25)

### Selfdiagnosis not completed

ABS warning light flash-

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

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

#### ABS deactivated

ABS warning light lights up.

The ABS system has been deactivated by the driver. with OE BMW Motorrad ABS:

 Switching on ABS function  $(\implies 35)$ 

#### ABS error

ABS warning light lights up.

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

- Continued driving is possible. It must be noted that the ABS function is not available. Observe additional information on situations which can lead to an ABS error (\$\imp\$ 52).
- Have the malfunction corrected as soon as possible by a specialized workshop, preferably an authorized BMW Motorrad retailer.

### Operation

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### Ignition switch and steering lock

### **Keys**

You receive one master key and one spare key. Ignition key and steering lock, seat lock and tank filler cap lock are all operated with the same key.

### Switching on ignition



- Turn key to position 1.
- » Parking lights and all function circuits switched on.
- » Engine can be started.

#### with OE BMW Motorrad ABS:

- Turn key to position 1.
- » In addition to the points named above, the ABS selfdiagnosis is also carried out. (➡ 46)

### Switching off ignition



- Turn key to position 2.
- » Light switched off.
- » Handlebars not locked.
- » Key can be removed.

### **Locking handlebars**



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

### Multifunction display Selecting readings

Switch on ignition.

For longer stays in foreign countries, the display can be switched over from miles to kilometers and vice versa. In this case, consult a specialized workshop, preferably an authorized BMW Motorrad retailer. ◀



• Press button 1.



Each time the button is pressed, the display shows values starting with the current value in the following order:

- Total mileage (ODO)
- Tripmeter 1 (Trip I)
- Tripmeter 2 (Trip II)
- Clock
- Battery voltage

### **Resetting tripmeter**

- Switch on ignition.
- Select desired tripmeter.



- Hold down button 1.
- » Tripmeter is reset.

### Setting clock

• Switch on ignition.

This adjustment can only be carried out with the motorcycle at a standstill.◀

· Select clock.



- Hold down button 1.
- » Hours 3 are indicated.
- Press button 1.
- » Hours increase by one each time button is pressed.
- Press button 2.
- » Hours decrease by one each time button is pressed.



- When desired hours have been set, wait briefly.
- » Minutes 4 are indicated.
- Press button 1.
- » Minutes increase by one each time button is pressed.
- Press button 2.
- » Minutes decrease by one each time button is pressed.
- When desired minutes have been set, wait briefly.
- » End setting; set time is displayed.

» Setting is also ended if speed is greater than zero.

### **Battery voltage**



The battery voltage 1 is displayed together with the battery symbol 2.

## Emergency ON/OFF switch



1 Emergency ON/OFF switch

Actuating the emergency ON/OFF switch while driving can cause the rear wheel to lock up, resulting in a fall.

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

The engine can be switched off easily and quickly using

the emergency ON/OFF switch.



- Switch not actuated: operating position.
- Switch actuated: engine switched off.

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

### Lights

### Parking lights

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

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

### Low-beam headlight

The low-beam headlights switch on automatically when the ignition is switched on.

The low-beam headlight is a strain on the battery. Do not leave the ignition switched on longer than absolutely necessary.◀

### High-beam headlight



- Push high-beam switch 1 upward.
- » High-beam headlight is switched on.
- Push high-beam switch 1 downward.
- » High-beam headlight is switched off.

### **Headlight flasher**



- Press headlight flasher button **1**.
- » The high-beam headlight is switched on for as long as the button is pressed.

# Headlight Adjusting headligh

## Adjusting headlight for RHD/LHD traffic

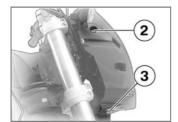
The motorcycle is equipped with a symmetrical low-beam headlight, and can therefore also be used without modification in countries which drive on the opposite side of

the road as in the country of registration.

## Headlight range and spring preload

The headlight range generally remains constant due to the adjustment of the spring preload to the loading state. Spring preload adjustment may only be insufficient when the motorcycle is very heavily loaded. In this case, the headlight range must be adjusted to the weight.

If you are unsure whether the basic headlight setting is correct, consult a specialized workshop, preferably an authorized BMW Motorrad retailer.



The headlight height can be adjusted with the screws **2** on the left and right below the side panels and the screw **3**. To ensure correct adjustment, it should be carried out by a specialized workshop, preferably an authorized BMW Motorrad retailer.

# Turn indicators Operating turn indicators



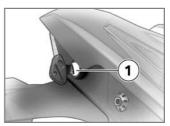
- Press turn indicator button 1 toward left.
- » Left-hand turn indicator is switched on.
- » Indicator light for left-hand turn indicator flashes.
- Press turn indicator button toward right.
- » Right-hand turn indicator is switched on.
- » Indicator light for right-hand turn indicator flashes.

- Press turn indicator button toward front.
- » Turn indicator is switched off.
- » Turn indicator lights in indicator light panel are off.

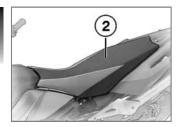
#### Seat

### Removing seat

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

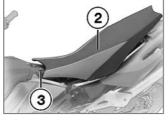


 Turn seat lock 1 counterclockwise with ignition key and hold.



- Raise seat 2 at rear and release key.
- · Remove seat.
- · Place seat on a clean surface with seat surface facing downward.

### Installing seat



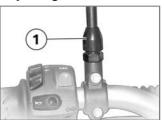
- Push seat 2 forward into mount 3.
- Firmly press down on seat at rear.
- » The seat can be heard to lock into place.
- Check firm seating of seat.

### **Mirrors Adjusting mirrors**



 Move mirror into desired position by twisting.

### Adjusting mirror arm



• Loosen nut 1.

- Turn mirror arm into desired position.
- Tighten nut 1 to specified torque while holding mirror arm in place.



Mirror union nut

- 15 lb/ft (20 Nm)

## **BMW Motorrad ABSOE**

## Switchable ABS function

When driving on a loose road surface, it may be advisable to deactivate the ABS function. For this reason, the ABS function of this motorcycle can be switched off. Observe additional information on the ABS system from (**\*\*** 50).

## Switching off ABS function

• Switch on ignition or bring motorcycle to a stop.



- Hold down ABS button 1.
- ABS Marning light lights up; if selfdiagnosis is not completed, the ABS warning light changes from flashing to being continuously lit.
- · Release ABS button within five seconds after ABS warning light lights up.

- The warning indicators for ABS fault and ABS switched off are identical.◀
- » ABS function is switched off.
- ABS warning light continues to light up.

## Switching on ABS function



Hold down ABS button 1.

ABS ABS warning light goes out; if selfdiagnosis is not completed, the ABS warning light

changes from being continuously lit to flashing.

- Release ABS button within five seconds after ABS warning light goes out.
- » ABS warning light remains off.
- » If the ABS self-diagnosis is not completed, ABS warning light continues to flash.
- » ABS function is switched on.
- As an alternative to pressing the ABS button, the ignition can also be switched off and then on again.

If the ABS light continues to light up after switching the ignition off and then on again, an ABS fault has occurred.

## Chassis settings Spring preload

The spring preload on the rear wheel must be adapted to the load of the motorcycle. Increase spring preload when the motorcycle is heavily loaded and reduce spring preload accordingly when the motorcycle is lightly loaded.

## **Damping**

The damping must be adjusted to the spring preload and the road conditions. An increase in spring preload requires firmer damping, a reduction in spring preload requires softer damping.

## Spring preload

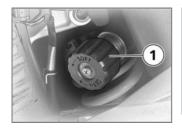
# Adjusting spring preload for rear wheel

Your motorcycle's handling will suffer if you do not match the spring-preload and damping-characteristic settings.

Adjust the damping characteristic to suit the spring preload.◀

Adjusting the spring preload while the motorcycle is being ridden can lead to accidents.
Adjust the spring preload only when the motorcycle is stationary.

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



When adjusting the handwheel, contact with the hot muffler is possible. Allow the muffler to cool down.

- Adjust spring preload with handwheel 1.
- To increase spring preload, turn handwheel in direction HARD.
- To decrease spring preload, turn handwheel in direction SOFT.



Spring-preload basic setting

 Turn adjustment wheel completely to "SOFT", then turn 10 turns toward "HARD" (Full tank of gas, with rider 187 lbs (85 kg))

## **Damping**

# Damping of telescopic forks

Both the rebound and the compression damping of the telescopic forks can be adapted to the road condition.

With the rebound, the damping during rebound is adjusted, and with compression the damping during compression. The stiffer the damping, the greater the compensating movement of the forks is damped when riding on rough

road surfaces. When soft damping is set, the forks react correspondingly faster to rough roads.

# Adjusting compression on telescopic forks

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



Adjust compression via adjusting screw 1.



- To increase damping, turn adjusting screw in + direction with a screwdriver.
- To reduce damping, turn adjusting screw in – direction with a screwdriver.
  - Pressure-stage basic setting
- Turn adjusting screw as far as possible in the direction "+", then 11 clicks in the "-" direction.

# Adjusting rebound on telescopic forks

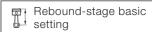
 Make sure ground is level and firm and park the motorcycle.



 Adjust rebound via adjusting screw 1.



- To increase damping, turn adjusting screw in + direction with a screwdriver.
- To reduce damping, turn adjusting screw in direction with a screwdriver.



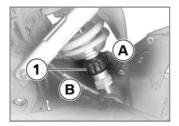
 Turn adjusting screw as far as possible in the direction "+", then 11 clicks in the "-" direction.

## Adjusting damping on rear wheel

The motorcycle's handling will suffer if you do not match the spring-preload and damping-characteristic settings.

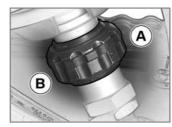
Adjust the damping characteristic to suit the spring preload.◀

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



• Adjust damping with nut 1.

- To increase damping, turn nut **1** in direction **A**.
- To decrease damping, turn nut 1 in direction B.





 Turn lower adjustment wheel as far as possible in direction A, then turn 13 clicks in direction B (Full tank of gas, with rider 187 lbs (85 kg))

# Tires Checking tire pressures

Incorrect tire pressures result in poorer handling of the motorcycle and can lead to accidents.

Ensure proper tire pressure.◀

At high road speeds, tire valves have a tendency to open as a result of centrifugal force.

To avoid a sudden loss of tire pressure, use a metal valve cap with a rubber sealing ring on the rear wheel and tighten it securely.◀

Incorrect tire pressure reduces the life of the tires.

Ensure proper tire pressure.◀

 Check tire pressure using following data. Front tire pressure

- 26.1 psi (1.8 bar) (Single rider, with cold tire)

 27.6 psi (1.9 bar) (Driver with passenger and/or load, with cold tire)

Rear tire pressure

 29 psi (2 bar) (Single rider, with cold tire)

 29 psi (2 bar) (Driver with passenger and/or load, with cold tire)

In case of insufficient tire pressure:

• Correct tire pressure.

## Riding

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rad ABS <sup>OE</sup>	50

## Safety instructions Rider's equipment

Do not ride without the correct clothing. Always wear:

- Helmet
- Rider's suit
- Gloves
- Boots

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

## Speed

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

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

## Correct loading



Overloading and uneven loading can diminish the riding stability of the motorcycle.

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

## Alcohol and drugs



Even small amounts of alcohol or drugs will ad-

versely affect your perception and your ability to assess situations and make decisions. and slow down your reflexes.

Medication can exacerbate these effects.

Do not ride vour motorcycle after consuming alcohol. drugs and/or medication. ◀

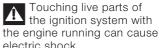
## Risk of poisoning

Exhaust fumes contain carbon monoxide, which is colorless and odorless but highly toxic.

Inhaling 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 closed rooms.◀

## High voltage



Do not touch parts of the ignition system when the engine is running.◀

## 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 run the engine with the spark-plug cap removed
- Stop the engine immediately if it misfires
- Use unleaded fuel only
- Comply with all specified maintenance intervals.

Unburned fuel will destroy the catalytic converter.

Note the points listed for

protection of the catalytic converter.◀

### Risk of fire

Temperatures at the exhaust are high.

| Flammable materials le.g. hav. leaves. grass. clothing and luggage, etc.) could ignite if allowed to come into contact with the hot exhaust pipe.

Make sure that no highly flammable materials can come in contact with the hot exhaust system.◀

Cooling would be inadequate if the engine were allowed to idle for a lengthy period with the motorcycle at a standstill: overheating would result. In extreme cases, the motorcycle could catch fire. Do not allow the engine to

idle unnecessarily. After starting, ride off immediately. ◀

## Tampering with the control unit of the electronic enginemanagement system

Modification of the engine-electronics control

unit can lead to damage to the motorcycle, and therefore to accidents.

Do not modify the engineelectronics control unit.

Tampering with control unit of electronic en-

gine-management system can result in mechanical loads. that the motorcycle's components are not designed to withstand. Damage caused in this way is not covered by the warrantv.

Do not modify the engineelectronics control unit.◀

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

- Brakes
- Front and rear brake fluid levels
- Clutch
- Shock absorber setting and spring preload
- Tread depth and tire pressure
- Secure luggage attachment

At regular intervals:

- Engine oil level (every time you refuel)
- Brake pad wear (during every third stop for refueling)

## Starting

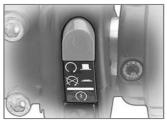
## Side stand

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 transmission in neutral and then engage a gear before retracting the side stand.

### **Transmission**

You can start the engine when the transmission is in neutral or if you pull the clutch with a gear engaged.

## Starting engine



 Emergency ON/OFF switch in operating position.

Transmission lubrication is only ensured when the engine is running.Insufficient lubrication can lead to transmission damage.

Do not allow the motorcycle to roll for longer periods or push it over longer distances with the engine switched off. ◀

- Switch on ignition.

#### with OF BMW Motorrad ABS:

- Switch on ignition.
- » Pre-ride check is performed. ( 45)
- » ABS self-diagnosis is performed. (➡ 46)
- Wait until coolant-temperature warning light no longer flashes if necessary.

After the ignition is switched on, the idling positioner is positioned. If positioning takes longer than the pre-ride check, this is signaled by the coolant-temperature warning light flashing. You should wait for this procedure to be completed to avoid problems during driving.



Press starter button 1.

At extremely low temperatures it may be necessary to operate the throttle twist grip during starting. At ambient temperatures below 32 °F (0 °C), actuate the clutch after switching on the ignition.

If the engine fails to start although the starter turns, insufficient battery voltage may be the reason. Recharge the battery before you start the engine, or use

- » Engine starts.
- » Consult the troubleshooting chart if the engine refuses to start. ( 100)

## Pre-ride check

After the ignition is switched on, the instrument cluster conducts a test of the warning and indicator lights and the display. This is the so-called pre-ride check.

### Phase 1

All warning and indicator lights and all segments of the multifunction display are switched on for a short time.

#### Phase 2

The tire parameters stored in the instrument cluster are displayed for a short time.

Then the instrument cluster assumes normal operation. If one of the specified warning and indicator lights was not switched on, or if not all segments of the multifunction display are switched on:

If it was not possible to switch on the warning lights, possible malfunctions cannot be indicated.
Watch all warning and indica-

tor lights on the display.◀

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

## ABS self-diagnosis OE

The readiness for operation of the BMW Motorrad ABS is checked by the self-diagnosis. Self-diagnosis is performed automatically when you switch on the ignition. To

check the wheel sensors, the motorcycle must be driven a few yards.

#### Phase 1

» Checking the diagnosable system components while stopped.

ABS warning light flashes.

#### Phase 2

» Checking the wheel sensors while starting off.

ABS warning light flashes.

## ABS selfdiagnosis completed

» The ABS warning light goes out.

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

 Continued driving is possible. It must be noted

- that the ABS function is not available.
- Have the malfunction corrected as soon as possible by a specialized workshop, preferably an authorized BMW Motorrad retailer.

## Running in The first 600 miles (1.000 km)

- While running in the motorcycle, vary the throttle opening and engine-speed range frequently.
- 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.

Exceeding the specified engine speeds while running in will lead to increased engine wear.

Adhere to the specified engine run-in speeds.◀

 Do not exceed gear-dependent top speeds during break-in period.

Top speeds during break-in period

- 22 mph (35 km/h) (1st gear)
- 34 mph (55 km/h) (2nd gear)
- 47 mph (75 km/h) (3rd aear)
- 59 mph (95 km/h) (4th gear)
- 68 mph (110 km/h) (5th gear)
- Do not accelerate at full throttle.
- Avoid low engine speeds at full load.

 After 300 – 750 miles (500 - 1,200 km), have the first inspection performed.

## Brake pads

New brake pads must "bed down" and therefore do not achieve their optimum friction levels during the first 300 miles (500 km). This initial reduction in braking efficiency can be compensated for by exerting greater pressure on the levers.

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

### **Tires**

New tires have a smooth surface. This must be roughened by riding in a restrained manner at various heel anales until the tires are run in. This running in procedure is

essential if the tires are to achieve maximum grip.



New tires have not achieved their full adhesion vet. There is a danger of accidents when driving at extreme angles. Avoid extreme angles. ◀

## Parking your motorcycle

## Placing on side stand

If the ground is soft or uneven, 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.◀

- Switch off the engine.
- Pull handbrake lever.
- Hold motorcycle upright and balanced.

 Use your left foot to extend side stand fully.

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.

 Slowly lean the motorcycle to side until its weight is taken by stand and dismount to left.

When you prop the motorcycle on the side stand, the surface of the ground will determine whether it is better to turn the handlebars to the left or right. However, the motorcycle is more stable on a level surface with the handlebars turned to the left than with the handlebars turned to the right.

On level ground, always turn

the handlebars to the left to set the steering lock.◀

- Turn handlebars to full left or right lock position.
- Check that motorcycle is standing firmly.

On a grade, the motorcycle should always face uphill; select 1st gear.◀

## Remove from side stand

- Unlock steering lock.
- Switch on ignition.
- From left, grip handlebars with both hands.
- Pull handbrake lever.
- Swing your right leg over the seat and lift motorcycle to upright position.
- Hold motorcycle upright and balanced.

An extended side stand can catch on the ground when the motorcycle is moving and lead to a fall.

Retract the side stand before moving the vehicle. ◀

 Sit on motorcycle and use your left foot to retract side stand.

## Refueling

Fuel is highly flammable. Fire at the fuel tank can result in fire and explosion. Do not smoke. Never bring a naked flame near the fuel tank.

Fuel expands when exposed to heat. When the tank is overfilled, fuel can escape and get onto the rear wheel. This results in a danger of falling.

Do not fill the tank past the bottom edge of the filler neck.◀

Fuel attacks plastic surfaces, making them cloudy or unattractive.

Wipe off any fuel that gets onto plastic parts immediately. ◀



Leaded fuel will destroy the catalytic converter.

Use only unleaded fuel. ◀

 Make sure ground is level and firm and park the motorcvcle.



- Open fuel tank cap 1 with ignition key by turning counterclockwise.
- Remove fuel tank cap.

 Refuel with quality listed below at most until lower edge of filler neck is reached.



Recommended fuel

- 95 ROZ/RON (Super unleaded)



Usable fuel quantity

- 2.6 gal (10 l)



Reserve fuel quantity

- $\ge 2.1$  quarts ( $\ge 2$  I)
- Mount fuel tank cap.
- Close fuel tank cap with iqnition key by turning clockwise.

## General brake system **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 could overheat and suffer severe damage. Use both front and rear

brakes, and make use of the engine's braking effect as well.◀

## Wet brakes



Atter me moc. , been washed, ridden After the motorcycle has

through water or ridden in the rain, the brake disks and pads might be wet and the brakes might not take effect immediately.

Brake early until the brakes are dry or braked until dry.◀

### Salt on brakes

The full braking effect can be delayed if the motorcycle is ridden on salt-covered roads and the brakes are not applied for some time. Brake early until the salt layer

of the brake disks and brake

# pads has been braked off.◀ Oil or grease on brakes

Oil and grease on the brake disks and pads considerably diminish braking efficiency.

Especially after repair and maintenance tasks, make sure that the brake disks and brake pads are free of oil and grease.

### Dirt or mud on brakes

When the motorcycle is ridden on loose surfaces or muddy roads, the brakes may fail to take effect immediately because of dirt or moisture on the disks or

Brake early until the brakes are braked clean.◀

brake pads.

Driving on unpaved or dirty roads leads to increased brake pad wear. Check the brake pad thickness more often and replace the brake pads sooner.

# Brake system with BMW Motorrad ABS<sup>OE</sup>

### How does ABS work?

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

If the maximum transferrable braking force is exceeded when the driver increases the brake pressure, the wheels begin to block and driving stability is lost, and a fall can result. Before this situation occurs, ABS intervenes and

adjusts the brake pressure to the maximum transferrable braking force. This enables the wheels to continue to turn and maintains driving stability regardless of the road surface condition.

# What happens when rough roads are encountered?

Bumpy or rough roads can briefly lead to a loss of contact between the tires and the road surface, until the transferrable braking force is reduced to zero. If braking is carried out in this situation, ABS must reduce the brake pressure to ensure driving stability when restoring contact to the road. At this point in time, the BMW Motorrad ABS must assume extremely low friction coefficients (gravel, ice, snow)

so that the running wheels turn in every imaginable case and the driving stability is ensured. After detecting the actual conditions, the system adjusts the optimum brake pressure.

# How is the shortest braking distance achieved?

The dynamic load distribution between the front and rear wheel changes during braking. The heavier you brake, the more the front wheel is loaded. The greater the wheel load, the more braking force can be transferred.

To achieve the shortest braking distance, actuate the front and rear brake. The front brake muss be actuated rapidly and with increasing force to optimally utilize the dynamic load increase on

the front wheel. At the same time, the clutch should also be actuated. With the "forced braking" often practiced in which the brake pressure is generated as quickly as possible and with great force, the dynamic load distribution cannot follow the increased deceleration and the braking force cannot be completely transferred to the road surface. To prevent the front wheel from locking, the ABS system must intervene and reduce the brake pressure: the braking distance increases.

## Reserves for safety

But remember: 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.

### Rear wheel lift

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

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

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

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

The BMW Motorrad ABS ensures driving stability on any surface within the limits of driving physics. The system is not optimized for special requirements resulting under extreme weather conditions offroad or on the racetrack.

## Special situations

To detect the tendency of the wheels to lock up, the speeds of the front and rear wheel are compared. If implausible values are detected over a longer period of time, the ABS

function is deactivated for safety reasons and an ABS fault is indicated. The condition for a fault message is the completed self-diagnosis. In addition to problems on the BMW Motorrad ABS, unusual driving conditions can also lead to a fault message.

## **Unusual driving conditions:**

- Driving on the rear wheel (wheely) for a longer period.
- Rear wheel spinning in place with front brake pulled (burn out).
- Heating up on an auxiliary stand at idle or with gear engaged.
- Locked-up rear wheel for a longer period of time, e.g. when riding downhill offroad.

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

# How important is regular maintenance?

Any technical system is always only as good as its maintenance condition.

To ensure that the BMW Motorrad ABS is in an optimally maintained condition, it is vital that the specified inspection intervals be complied with.

## Accessories

General instructions	56
Onboard socket <sup>OE</sup>	56

## General instructions

BMW Motorrad recommends the use of parts and accessories for your motorcycle that are approved by BMW for this purpose.

Your authorized BMW Motorrad retailer is the right place to go for genuine BMW parts and accessories.other BMW -approved products, and expert advice on their installation and use.

These parts and products have been tested by BMW for safety, function and suitability. BMW accepts product liability for these products.

Conversely. BMW is unable to accept any liability whatsoever for parts and accessories which it has not approved.

BMW Motorrad cannot examine or test each product of outside origin to

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

Whenever you are planning modifications, comply with all the legal requirements. The motorcycle must not infringe on national road-vehicle construction and use regulations.

## Onboard socket<sup>OE</sup> Ratings



The load of the onboard socket 1 may not exceed the value specified in the technical data.

## Operating electrical accessories

The operation of additional devices is a strain on the battery. The starting capacity of the battery must be maintained.

## **Cable routing**

The cables from the onboard socket to the auxiliary device must be routed in such a way that they:

- Do not impede the rider
- Do not restrict or obstruct the steering angle and handling characteristics
- Cannot be trapped

Improperly routed cables can impede the rider.

Route the cables as described above.◀

## Maintenance

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Battery	88
icense-plate carrier	92

## **General instructions**

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

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

Information on additional maintenance and repair work is provided in the Repair Manual for your motorcycle on CD/DVD-ROM (RepROM), which you can obtain from your authorized BMW Motorrad retailer.

### **Toolkit**

## Standard onboard toolkit



## 1 Fuse clip

Replacing fuses

## 2 Open-ended wrench, 8/10 mm

Adjusting chain tension

### 3 Screwdriver handle

- Screwdriver handle

## 4 Screwdriver, small

Replacing turn indicator bulbs

#### 5 Screwdriver blade

- Phillips and straight blade

## 6 Open-ended wrench, 15 mm

- Adjusting mirror arm

## 7 Open-ended wrench, 14 mm

Adjusting mirror arm

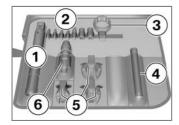
## 8 Allen key, 4 mm

Removing and installing body panels

# Onboard-toolkit service set

Your BMW Motorrad retailer offers the onboard-toolkit service set for additional work.

Information on conducting this work is provided in the Repair Manual on DVD/CD-ROM (RepROM), which is also available from your BMW Motorrad retailer.



#### 1 Pull-out tool holder

 Holding of all tools with adapter

### 2 Bits, 1/4"

- Phillips
- Straight blade
- Adapter 1/4" hexagon to 1/ 4" square
- 2x hexagon socket wrench insert, removing and installing front wheel

- Allen screw 3 mm, replacing headlight bulb
- Allen key, 4 mm, removing and installing fairings
- Allen screw 6 mm, adjusting headlight height

### 3 Box wrench, 27 mm

Removing and installing wheels

## 4 Flashlight

- LED technology

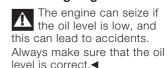
### 5 3x Socket wrench

Adjusting chain tension

## 6 Adapter

- Mounting for 1/4" bits
- 9x12 mm and 3/8" jointed adapter

# Engine oil Checking engine oil level



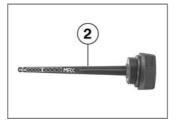
The oil level varies with the temperature of the oil. The higher the temperature, the higher the level of oil in the sump. Checking the oil level with the engine cold or after a short trip leads to misinterpretations and therefore to incorrect oil fill quantities. To ensure that the display of the engine oil level is correct, only check the oil level after a longer trip.

 Make sure the ground is level and firm and hold motorcycle at operating temperature vertically.

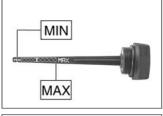
- Allow engine to idle until fan starts up, then allow to continue running for an additional minute
- Switch off the engine.
- Wipe area around oil fill location clean.

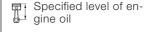


 Remove cap from oil fill location 1 by turning counterclockwise.



- Clean oil dipstick 2 with a dry cloth
- Install oil dipstick.
- · Remove oil dipstick and read off oil level.





- between MIN and MAX marking

If oil level is below MIN mark:

• Topping up engine oil  $(\implies 63)$ 

If the oil level is above the MAX mark:

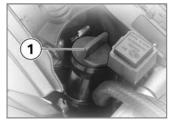
 Have oil level corrected by a specialized workshop, preferably an authorized BMW Motorrad retailer.

## Topping up engine oil

Both too little and too much engine oil can lead

to engine damage. Always make sure that the oil level is correct.◀

 Wipe area around fill location clean.



 Remove cap of oil fill location 1.



- Add engine oil up to marking **A**.
- To check the oil level, screw the oil dipstick in and then out again.
- Install cap of oil fill location.

## General brake system Brake safety

A properly functioning brake system is a basic requirement for the road safety of your motorcycle.

Do not ride the motorcycle if you have any doubts about

the dependability of the brake system.

In this case, have the brake system checked by a specialized workshop, preferably by an authorized BMW Motorrad retailer.



Incorrect working practices endanger the relia-

bility of the brakes.

Have all work on the brake system performed by a specialized workshop, preferably by an authorized BMW Motorrad retailer.◀

## Checking brake operation

- Pull handbrake lever
- » Pressure point must be clearly perceptible.
- Press footbrake lever.
- » Pressure point must be clearly perceptible.

If no clear pressure points are perceptible:

 Have the brakes checked by a certified workshop. preferably an authorized BMW Motorrad retailer.

## Brake pads Checking front brake pad thickness

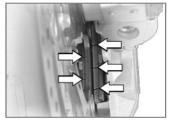
Brake pads worn past the minimum permissible thickness can impair braking efficiency and under certain circumstances they can cause damage to the brake system.

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

 Make sure ground is level and firm and park the motorcvcle.



 Check the brake pad thickness with visual inspection. Direction of view: between wheel and fork tube at brake caliper.





Front brake-pad wear limit

- 0.04 in (1 mm) (Only friction material without carrier plate)
- Wear markings (grooves) must be clearly visible.

If the wear indicating marks are no longer clearly visible:

 Have the brake pads replaced by a specialized workshop, preferably an authorized BMW Motorrad retailer.

## Checking rear brake pad thickness

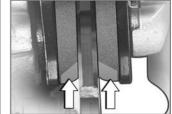
Brake pads worn past the minimum permissible thickness can impair braking efficiency and under certain circumstances they can cause damage to the brake system.

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

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



 Check thickness of rear brake pads 1 with visual inspection from behind.



Rear brake-pad wear limit

- 0.04 in (1 mm) (Only friction material without carrier plate)
- Wear indicators must be clearly visible.

If the wear indicating marks are no longer visible:

 Have brake pads replaced by a specialized workshop, preferably an authorized BMW Motorrad retailer.

## **Brake fluid** Checking front brake fluid level

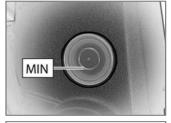
A low fluid level in the brake reservoir can allow air to penetrate the brake system. This significantly reduces braking efficiency. Check brake fluid level regularly.◀

- Make sure the ground is level and firm and hold the motorcycle vertically.
- Move handlebars into straight-ahead position.



· Read off brake fluid level at front brake-fluid reservoir 1.

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



Front brake fluid level

- Brake fluid DOT4
- The brake fluid level must not fall below the MIN mark. (Brake-fluid reservoir horizontal)

If brake fluid level drops below permissible level:

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

## Checking rear brake fluid level

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

 Make sure the ground is level and firm and hold the motorcycle vertically.



 Read off brake fluid level at rear brake-fluid reservoir 1. The brake fluid level in the brake-fluid reservoir drops due to brake pad wear.



Rear brake fluid level

- Brake fluid DOT4
- The brake fluid level must not fall below the MIN mark. (Brake-fluid reservoir horizontal)

If brake fluid level drops below permissible level:

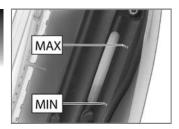
 Have defect corrected as soon as possible by a specialized workshop, preferably an authorized BMW Motorrad retailer.

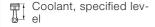
# Coolant Checking coolant level

 Make sure the ground is level and firm and hold the motorcycle vertically.



 Check coolant level on scale 1 of coolant expansion tank.





between MIN and MAX marks on expansion tank

If coolant level is too low:

· Add coolant.

If coolant level is too high:

 Contact a specialized workshop, preferably an authorized BMW Motorrad retailer.

## Topping up coolant

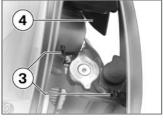


 Pull out radiator cap cover 1 toward front.



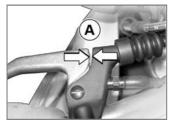
Open cap of coolant expansion tank 2.

- Pour in coolant up to specified level.
- Close cap of coolant expansion tank.



 Insert radiator cap cover in holders 3. When doing so, guide the upper edge of the cover behind the lower edge of the center fairing panel 4.

# Clutch Checking clutch lever play



- Pull clutch lever until resistance is felt.
- Measure clutch lever play A.

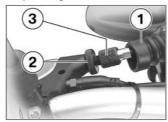


- 0.04...0.08 in (1...2 mm)

If clutch lever play is outside tolerance:

• Adjusting clutch ( 69)

## **Adjusting clutch**



- Push back bellows 1.
- Loosen lock nut 2.
- Adjust clutch lever play to setpoint setting with adjusting screw 3.
- » Turn clockwise: clearance is increased.
- » Turn counterclockwise: clearance is reduced.
- Checking clutch lever play (\$\inf\$ 69)
- Tighten lock nut 2.
- Pull bellows 1 over adjusting screw.

# Tires Checking tire tread

depth

The handling of your motorcycle can already change for the worse before the legally prescribed minimum tread depth is reached. Have tires replaced even before the minimum tread depth is reached.

- Make sure ground is level and firm and park the motorcycle.
- Measure tire tread depth in main tread grooves with wear indicating marks.

Tires have wear indicators integrated into the main tread grooves. If the tire tread has worn down to the level of the marks, the tire is completely worn. The locations of the marks are indi-

cated on the edge of the tire, e.g. by the letters TI, TWI or by an arrow.◀

If the tire tread depth no longer complies with the legally required minimum tread depth:

· Replace tire.

### Rims

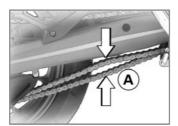
## **Checking rims**

- Make sure ground is level and firm and park the motorcycle.
- Visually inspect rims for defects.
- Have damaged rims checked and, if necessary, replaced by a specialized workshop, preferably an authorized BMW Motorrad retailer.

## Chain

## Checking chain tension

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



 Press chain upward and downward using a screwdriver and measure difference A.

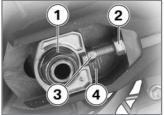


 1 in (25 mm) (Motorcycle unladen on auxiliary stand) If the measured value is outside the permissible tolerance:

 Adjusting chain tension ( 70)

## Adjusting chain tension

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



- Loosen quick-release axle nut 1.
- Loosen lock nuts 2 on left and right by turning counterclockwise.

- Adjust chain tension with adjusting screws 3 on left and right.
- » Turning clockwise: chain tension is reduced.
- » Turning counterclockwise: chain tension is increased.
- Checking chain tension
   70)
- Make sure that the same scale value 4 is set on the left and right.
- Tighten lock nuts 2 on left and right by turning clockwise.



Locknut of drive-chain tensioning screw

- 18 lb/ft (25 Nm)
- Tighten quick-release axle nut **1** with specified torque.



Nut on rear quickrelease axle

- 59 lb/ft (80 Nm)

### Checking chain wear

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



- Pull chain toward rear at rear-most point of chain sprocket.
- » The tooth tips must still be within the chain links.

If the chain can be pulled off beyond the tooth tips:

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

### Wheels

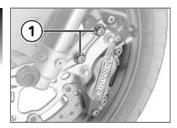
### Recommended tires

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

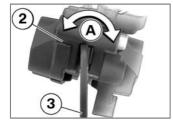
BMW Motorrad recommends only using the tires tested and approved by BMW Motorrad. Extensive information is available at your authorized BMW Motorrad retailer or on the Internet at www.bmw-motorrad.com.

### Removing front wheel

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



 Remove securing screws 1 of brake caliper.



 Press brake pads in brake caliper 2 apart slightly by rocking back and forth A in relation to brake disks 3.

 Mask off parts of wheel rim that could be scratched when removing brake caliper.

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 disk on reassembly. Do not operate the handbrake lever when the brake calipers

• Carefully pull brake caliper back and out until clear of brake disks.

have been removed.

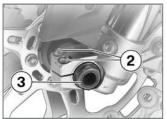
with OE BMW Motorrad ABS:

 When pulling off left brake caliper, make sure that ABS sensor cable is not damaged.⊲

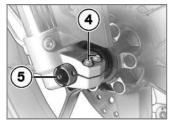
 Place motorcycle on suitable auxiliary stand. with OE BMW Motorrad ABS:



 Remove screw 1 of ABS sensor and take ABS sensor out of holder.⊲



- Unscrew left-hand axle clamping screws 2.
- Remove axle screw 3.



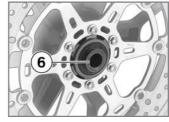
- Unscrew right-hand axle clamping screws 4.
- Press axle **5** inward from left until it protrudes from

- clamping on right-hand side.
- Pull out axle using a screwdriver.
- Do not remove grease on axle.

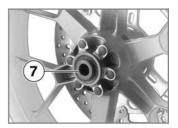
Once the calipers have been removed, there is a risk of the brake pads being pressed together to the extent that they cannot be slipped back over the brake disk on reassembly.

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

 Roll front wheel out of the forks.



• Remove left-hand spacer sleeve **6**.



 Remove right-hand spacer sleeve 7.

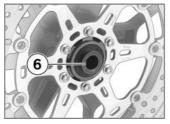
### Installing front wheel

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

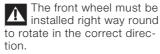
Always have the tightening torques checked by a specialized workshop, preferably an authorized BMW Motorrad retailer.◀



• Install right-hand spacer sleeve **7**.

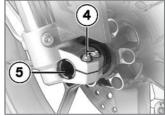


 Install left-hand spacer sleeve 6.



Observe the direction of rotation arrows on the tires or on the rim.◀

• Roll front wheel into forks.

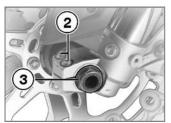


- Insert axle **5** as far as possible.
- Tighten axle clamping screw **4** with specified torque.



Front axle clamping

- 7 lb/ft (10 Nm)

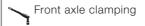


 Install the axis screw 3 with torque.

Nut on front quickrelease axle

- 59 lb/ft (80 Nm)

- Without actuating brake: firmly compress spring forks several times.
- Tighten the left-hand axle clamping screws 2 with specified torque.



- 7 lb/ft (10 Nm)

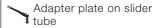
with OE BMW Motorrad ABS:



- Mount ABS sensor in holder and install screw 1 of ABS sensor.
- Remove auxiliary stand.
- Place brake caliper on brake disk.



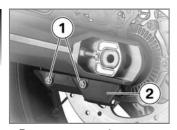
Install mounting screws 1 with appropriate torque.



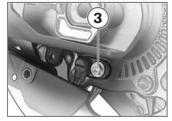
- 37 lb/ft (50 Nm)
- Remove adhesive tape from wheel rim.
- Operate brakes several times until brake pads contact brake disk.

### Removing rear wheel

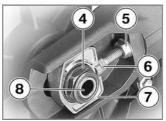
Place motorcycle on suitable auxiliary stand.



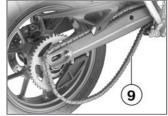
• Remove screws 1.



 Remove screw 3 of speed sensor and take speed sensor out of holder.



- Remove quick-release axle nut 4.
- Loosen lock nuts 5 on left and right by turning counterclockwise.
- Loosen adjusting screws 6
   on left and right by turning
   clockwise so that adjusting
   plate 7 can be removed.
- Remove quick-release axle 8.



- Roll rear wheel as far forward as possible and remove chain 9 from chain sprocket.
- Roll rear wheel toward rear out of swinging arm.

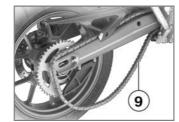
The chain sprocket and the spacer sleeves on the left and right are loosely inserted in the wheel. When removing, make sure that these parts are not damaged or lost.◀

### Installing rear wheel

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

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

 Roll rear wheel into swinging arm while guiding brake disk between brake pads.



 Roll rear wheel as far forward as possible and lay chain 9 on chain sprocket.



Mount quick-release axle 8 with adjusting plate 7 in

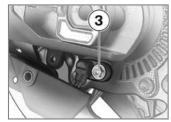
- swinging arm, brake caliper and rear wheel.
- Turn quick-release axle so that it fits into recess of adjusting plate.



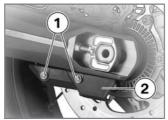
• Insert adjusting plate 7.



 Install quick-release axle nut 4, however do not tighten yet.



 Mount speed sensor in holder and install screw 3 of speed sensor.



- Lay on cover 2.
- Install 2 screws 1.
- Adjusting chain tension ( 70)
- Remove auxiliary stand.

# Fuses Removing fuses

There is a danger of fire if defective fuses are bypassed.

Always replace defective fuses with new fuses. ◀

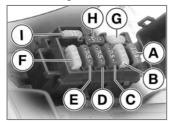
If the fuses are frequently defective, have the electrical system checked by a specialized workshop, preferably an authorized BMW Motorrad retailer.

- Removing seat ( 33)
- Switch off ignition.



- Press locking lever 1 and fold open fuse cover.
- Pull defective fuse out of fuse box as shown in assignment diagram.

### Fuse assignment



- **A** ABS (OE) (10 A)
- **B** Engine management system (15 A)
- C Low-beam headlight (7.5 A)
- **D** Brake light, horn, instrument cluster, diagnosis plug (7.5 A)
- E Parking lights, license plate light, head-light flasher, highbeam headlight (7.5 A)
- F Starter relay, turn indicators, diagnosis plug (15 A)

- **G** Spare fuse (15 A or 10 A with OE)
- H Spare fuse (7.5 A)
- Spare fuse (15 A)

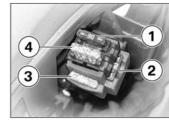
### Installing fuses

- Replace defective fuse with fuse with required amperage.
- · Close fuse cover.
- » Latch audibly engages.
- Installing seat ( 34)

### Removing ABS fuses OE

- Removing right fairing side panel (\*\* 90)
- Switch off ignition.
- Pull defective fuse out of fuse box as shown in assignment diagram.

### ABS fuse assignment<sup>OE</sup>



- **1** ABS (30 A)
  - 2 Spare fuse (30 A)
  - 3 Spare fuse (20 A)
  - 4 ABS (20 A)

## Installing ABS fuses OE

- Replace defective fuse with fuse with required amperage.
- Installing right fairing side panel ( 91)

# Lamps General instructions

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

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

The bulb is pressurized and can cause injury if damaged.

Wear eye and hand protection when replacing bulbs.◀

An overview of the bulb types installed in your motorcycle is provided in the chapter "Technical Data".

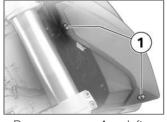
Do not touch the glass of new bulbs with your fingers. For installation, use a clean, dry cloth. Dirt de-

posits, in particular oil and grease, interfere with heat radiation from the bulb. Overheating and therefore short service life of the bulbs are the consequence.◀

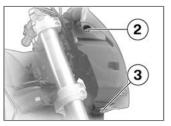
### Removing headlight

If it is not standing firmly, the motorcycle could topple in the course of the operations described below. Make sure that the motorcycle is steady on its stand.

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



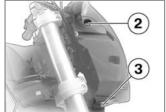
- Remove screws 1 on left and right.
- Remove left and right-hand side panel.



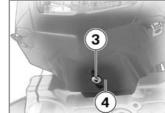
 Remove screws 2 on left and right and screw 3. • Take off headlight housing toward front and upward.

# Installing headlight housing

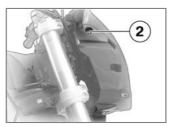
• Mount headlight housing.



 Install screws 2 on left and right and screw 3, however do not tighten yet.



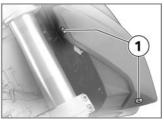
- Align headlight housing so that center of screw 3 is aligned with line 4.
- Tighten screw 3.



• Tighten screws **2** on left and right.



• Mount fairing on left and right, making sure that lug engages in mount **5**.



 Install screws 1 on left and right.

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### Replacing lowbeam and highbeam bulb

- Removing headlight ( 80)
- Switch off ignition.



• Disconnect plug 1.



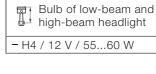
• Remove rubber cap 2.



 Remove spring strap 3 from detents and fold up.



- Remove bulb 4.
- Replace defective bulb.





• Install bulb 4.



 Fold closed spring strap 3 and insert in detents.



• Install rubber cap 2.



- Connect plug 1.
- Installing headlight housing ( 81)

# Replacing parking light bulb

If it is not standing firmly, the motorcycle could topple in the course of the operations described below. Make sure that the motorcycle is steady on its stand.

- Make sure ground is level and firm and park the motorcycle.
- Removing headlight ( 80)
- Switch off ignition.



 Pull bulb socket 1 out of headlight housing.



- Pull the bulb 2 out of the socket 3.
- Replace defective bulb.

Parking-light bulb

- W5W / 12 V / 5 W



• Insert bulb 2 into socket 3.



- Insert bulb socket **1** into headlight housing.
- Installing headlight housing ( 81)

# Replacing front and rear turn indicator bulbs

If it is not standing firmly, the motorcycle could topple in the course of the operations described below. Make sure that the motorcycle is steady on its stand.

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



• Remove screw 1.

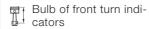


• Pull glass on screw connection side out of mirror housing.

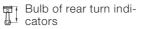


• Remove bulb 2 from light housing by turning it counterclockwise.

• Replace defective bulb.



-RY10W / 12 V / 10 W



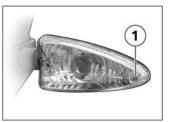
- RY10W / 12 V / 10 W



• Install bulb 2 by turning clockwise in light housing.



 Insert inside end of lens into light housing and close.

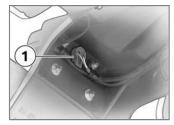


Install screw 1.

# Replacing license plate light

If it is not standing firmly, the motorcycle could topple in the course of the operations described below. Make sure that the motorcycle is steady on its stand.

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



 Pull bulb socket 1 out of bulb holder.



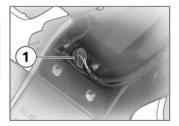
- Pull the bulb 2 out of the socket 3.
- Replace defective bulb.

Bulb of license plate light

- W5W / 12 V / 5 W



• Insert bulb 2 into socket 3.



 Insert bulb socket 1 into bulb holder.

### **Jump-starting**

The wires leading to the onboard 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 motorcycle electronics.

Do not use the onboard socket to jumpstart the motorcycle.◀

Touching live parts of the ignition system with the engine running can cause electric shock.

Do not touch parts of the ignition system when the engine is running.◀

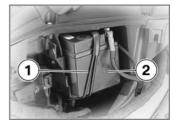
A short-circuit can result if the crocodile clips of the jump leads are accidentally brought into contact with the motorcycle.

Use only jump leads fitted

with fully insulated crocodile clips at both ends.◀

Jump-starting with a donor-battery voltage higher than 12 V can damage the motorcycle electronics. The battery of the donor vehicle must have a voltage of 12 V.

- Removing right fairing side panel (=> 90)
- When jump-starting the engine, do not disconnect the battery from the onboard electrical system.



- Remove rubber tensioning strap 1 from holder at bottom and pull out battery 2 somewhat.
- Run engine of donor vehicle during jump-starting.



- Begin by connecting one end of the red jump lead to the positive terminal 3 of the discharged battery and the other end to the positive terminal of the donor battery.
- Connect the black jumper cable to the negative terminal of the supporting battery and then to a suitable grounding point of this motorcycle.
- Start engine of motorcycle with discharged battery in usual way; if engine refuses to start, wait a few minutes

before repeating attempt to protect starter and supporting battery.

- Allow both engines to idle for a few minutes before disconnecting jump leads.
- First disconnect jumper cables from negative terminal and from grounding point respectively, then from positive terminal 3.

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

 Installing right fairing side panel ( 91)

# Battery

### **Maintenance instructions**

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

Compliance with the points below is important in order to maximize battery life:

- Keep the surface of the battery clean and dry
- Do not open the battery
- Do not top up with water
- Be sure to read and comply with the instructions for charging the battery on the following pages
- Do not turn the battery upside down

If the battery is not disconnected, the onboard electronics (clock etc.) will drain the battery. This can cause the battery to run flat. If this happens, warranty claims will not be accepted.

During periods when the motorcycle is not being used, of more than four weeks, disconnect the battery from the

motorcycle or connect a trickle charger to the battery. ◀

# Charging connected battery

Charging the connected battery directly at the battery terminals can damage the motorcycle electronics. To charge the battery via the battery terminals, disconnect the battery first.

If you switch on the ignition and the multifunction display and indicator lights fail to light up, the battery is completely flat. Attempting to charge a completely flat battery via the onboard socket can cause damage to the motorcycle's electronics.

Always charge a completely drained battery directly at the

terminals of the disconnected battery.◀

- Charge connected battery via onboard socket (OE).
- Comply with operating instructions of charger.

# Charging disconnected battery

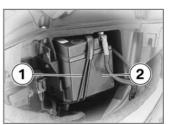
- Charge battery using a suitable charger.
- Comply with operating instructions of charger.
- Once battery is fully charged, disconnect charger terminal clips from battery terminals.

In the case of longer periods when the motorcycle is not being used, the battery must be recharged regularly. See the instructions for caring for your battery. Always fully recharge the

battery before returning it to use. ◀

### **Removing battery**

- Make sure ground is level and firm and park the motorcycle.
- Removing right fairing side panel ( 90)



- Unhook clamping strap 1.
- Pull out battery 2.

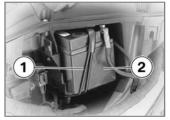


- An incorrect disconnection sequence increase the risk of short-circuiting. Always observe the proper sequence.◀
- Remove battery ground wire 4 first.
- Then remove positive battery cable 3.

### Installing battery



- An incorrect installation sequence increases the risk of short-circuiting. Always observe the proper sequence.
- First install the positive battery cable 3.
- Then install negative battery cable 4.



- Insert battery 2 with negative terminal first.
- Hook in clamping strap 1.
- Installing right fairing side panel ( 91)
- Setting clock ( 29)

### Removing right fairing side panel

- Make sure ground is level and firm and park the motorcycle.
- Removing seat ( 33)



 Remove screw 1 at front right.



- Remove screws 2.
- First pull fairing side panel out of holder **3**, then toward rear out of holder **4**.

• Take off fairing side panel.

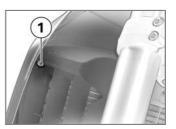
# Installing right fairing side panel



• First insert fairing side panel into holder **4**, then into holder **3**.



• Install screws 2.

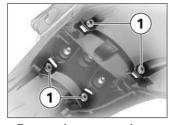


- Install screw 1 at front right.
- Installing seat (➡ 34)

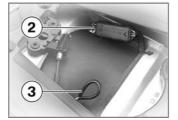
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## License-plate carrier Removing licenseplate carrier

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

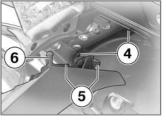


• Remove four screws 1.

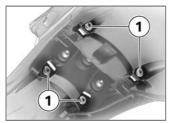


- Disconnect connector 2.
- Unlock license-plate carrier with wire loop 3 and remove while threading out connector 2 with cable.

### Installing licenseplate carrier



- Thread in cable, insert license-plate carrier with holders 5 in mounts 4 and press upward.
- » Pin 6 audibly engages.



• Install four screws 1.



• Close connector 2.

### Care

Care products	96
Washing your motorcycle	96
Cleaning sensitive motorcycle parts	97
Paint care	97
Protective wax coating	98
Storing motorcycle	98
Returning motorcycle to use	98

## Care products

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

The use of unsuitable cleaning and care products can damage motorcycle components.

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

## Washing your motorcycle

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

To prevent stains, do not wash the motorcycle immediately after it has been exposed to bright sunlight and do not wash it in the sun. Make sure that the motorcycle is washed frequently. especially during the winter months

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

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

Brake early until the brakes are dry or braked until dry. ◀

Warm water intensifies the effect of salt.

Only use cold water to remove 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 iet or highpressure cleaning equipment.

### Cleaning sensitive motorcycle parts

### **Plastics**

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

- Windshields and wind deflectors
- Headlight lens made of plastic
- Covering glass of the instrument cluster
- Black, unpainted parts

If plastic parts are cleaned using unsuitable cleaning agents, the surfaces can be damaged.

Do not use cleaning agents that contain alcohol, solvents or abrasives to clean plastic parts.

'Fly sponges' or sponges with hard surfaces can also lead to scratches.◀



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

#### Chrome

Especially in the case of road salt, carefully clean chrome parts with plenty of water and BMW auto shampoo. Use chrome polish for additional treatment.

### Radiator

Clean the radiator regularly to prevent overheating of the engine due to inadequate coolina.

For example, use a garden hose with low water pressure.



Cooling fins can be bent easily.

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

### Rubber

Treat rubber components with water or BMW rubber protection coating agent.



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

Do not use silicon 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, e.g. tree resin or pollen.

However, remove particularly aggressive materials immediately; otherwise changes in the paint or discoloration can occur. These include spilled fuel, oil, grease, brake fluid as well as bird droppings. BMW Car Polish or BMW Paint Cleaner are recommended for this.

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

# Protective wax coating

To preserve the finish of your motorcycle, BMW Motorrad recommends using BMW Car Wax or agents that contain carnauba or synthetic waxes. A sure sign that the paint must be protected, is the fact that water no longer pearls up on it.

### Storing motorcycle

- Clean the motorcycle.
- Remove the battery.
- Spray the brake and clutch lever, the side stand pivot and, if necessary, the main stand pivot with a suitable lubricant.
- Coat bare metal and chrome-plated parts with an acid-free grease (e.g. Vaseline).

 Park the motorcycle in a dry room so that both wheels are unloaded.

Before storing the vehicle, have the engine oil and the oil filter element changed by a specialized workshop, preferably an authorized BMW Motorrad retailer.Combine work for storing/returning to use with maintenance service or an inspection.

# Returning motorcycle to use

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

## **Technical data**

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## **Troubleshooting chart**

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

Possible cause	Remedy
Emergency ON/OFF switch activated.	Emergency ON/OFF switch in operating position.
Side stand extended and gear engaged.	Retract side stand (■ 44).
Gear engaged and clutch not operated.	Place transmission in neutral or disengage clutch ( 44).
No fuel in tank.	Refueling (→ 48)
Battery not adequately charged.	Charging connected battery (→ 89)

## **Threaded fasteners**

Front wheel	Value	Valid
Nut on front quick-release axle		
M20 x 1.25	59 lb/ft (80 Nm)	
Front axle clamping		
M6	7 lb/ft (10 Nm)	
Adapter plate on slider tube		
	37 lb/ft (50 Nm)	
Rear wheel	Value	Valid
Nut on rear quick-release axle		
M20 x 1.25	59 lb/ft (80 Nm)	
Locknut of drive-chain tension- ing screw		
M8	18 lb/ft (25 Nm)	

Mirror arm	Value	Valid
Mirror union nut		
	15 lb/ft (20 Nm)	
Mirror clamping screw on han- dlebar		
	15 lb/ft (21 Nm)	

# **Engine**

	1
Engine design	Single-cylinder, four-stroke engine, DOHC control with bush roller-chain drive, 4 valves actuated by bucket tappets, compensating shaft, liquid cooling for cylinders and cylinder head. Integrated water pump, 5-speed transmission and dry-sump lubrication
Effective displacement	652 cc (652 cm <sup>3</sup> )
Cylinder bore diameter	3.9 in (100 mm)
Piston stroke	3.3 in (83 mm)
Compression ratio	11.5:1
Rated output	53 hp (39 kW), - at engine speed: 7500 min-1
Maximum torque	44 lb/ft (60 Nm), - at engine speed: 5250 min <sup>-1</sup>
Maximum engine speed	7500 min <sup>-1</sup>
Idle speed	1480 min <sup>-1</sup>
Fuel	
Recommended fuel type	95 ROZ/RON, Super unleaded
Usable fuel quantity	2.6 gal (10 l)
Reserve fuel quantity	≥2.1 quarts (≥2 I)

Engine oil	
Engine oil capacity - total	2.4 quarts (2.3 l), with filter change
Engine oil top-up quantity	0.3 quarts (0.25 I), Difference between MIN and MAX
Oil grades	Mineral engine oils with the API classification SF to SH. BMW Motorrad does not recommend using oil additives, as these can worsen the operation of the clutch. BMW Motorrad recommends not using synthetic oils for the first 6,000 miles (10,000 km). Ask your BMW Motorrad retailer for engine oils suitable for your motorcycle.
Permissible viscosity classes	
SAE 10 W-40	≥-4 °F (≥-20 °C), Operation at low temperatures
SAE 15 W-40	>14 °F (>-10 °C)

## **Riding specifications**

Top speed 104 mph (167 km/h)
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## Clutch

Clutch design	Multi-disk oil-bath clutch

# **Transmission**

Transmission design	Claw-shifted 5-speed transmission
Transmission gear ratios	1.946 (37:72 teeth), Primary gear ratio 2.750 (12:33 teeth), 1st gear 1.750 (16:28 teeth), 2nd gear 1.313 (16:21 teeth), 3rd gear 1.045 (22:23 teeth), 4th gear 0.875 (24:21 teeth), 5th gear

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# Rear-wheel drive

Rear-wheel drive design	Chain drive
Rear suspension design	2-arm cast aluminum swinging arm
Secondary gear ratio	2.9 (16:47 teeth)

# Running gear

Front suspension design	Upside-down telescopic forks
Front-suspension spring travel	10.6 in (270 mm), On wheel
Rear-wheel suspension design	Directly linked central spring strut with coil pressure spring and single-tube gas-filled shock absorber
Total spring travel on rear wheel	8.3 in (210 mm), On wheel

#### **Brakes**

Front-wheel brake design	Hydraulically operated single-rotor disk brake with 4-piston fixed calipers and floating brake disk
Front brake-pad material	Sintered metal
Rear-wheel brake design	Hydraulic single-rotor disk brake with 1-piston floating caliper and fixed brake disk
Rear brake lining material	Organic

## Wheels and tires

Front wheel design	Cast aluminum, MT H2	
Front-wheel rim size	3.50" x 17"	
Front tire designation	120 / 70 - 17	
Rear wheel design	Cast aluminum, MT H2	
Rear-wheel rim size	4.50" x 17"	
Rear tire designation	160 / 60 -17	
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Tire pairs approved by copy deadline	front: Pirelli Diabolo, 120/70 R 17 (58H) rear: Pirelli Diabolo, 160/60 R 17 (69H)
	You can obtain an overview of the current tire approvals from your authorized BMW motorcycle retailer or on the Internet at www.bmw-motorrad.com.
Tire pressures	
Front tire pressure	26.1 psi (1.8 bar), Single rider, with cold tire 27.6 psi (1.9 bar), Driver with passenger and/or load, with cold tire
Rear tire pressure	29 psi (2 bar), Single rider, with cold tire 29 psi (2 bar), Driver with passenger and/or load, with cold tire

# **Electrical system**

Capacity of onboard socket	
with OE BMW Motorrad ABS:	5 A
Fuses	"Minifuse" blade-type fuses with 7.5 A and 15 A
with OE BMW Motorrad ABS:	"Minifuse" blade-type fuses with 10 A, 20 A and 30 A
Battery	
Battery designation	ETZ 10 S
Battery design	AGM (Absorptive Glass Matt) battery
Battery voltage	12 V
Battery capacity	10 Ah
Spark plugs	
Spark plug manufacturer and designation	NGK DR8 EB
Spark-plug electrode gap	0.020.03 in (0.60.7 mm), New 0.04 in (0.9 mm), Wear limit

H4 / 12 V / 5560 W
W5W / 12 V / 5 W
RY10W / 12 V / 10 W
RY10W / 12 V / 10 W
W5W / 12 V / 5 W

# Frame

Frame design	Steel bridge frame, carrying drive unit and bolted-on rear frame
Location of type plate	On front frame at right
Location of vehicle identification number	On front frame at right
_	-

## **Dimensions**

Motorcycle length	85.8 in (2180 mm)
Maximum height in normal-load position	46.6 in (1184 mm), Without mirrors 56.5 in (1435 mm), With mirrors
Motorcycle width	35.7 in (907 mm), Across mirrors
Driver's seat height	36.2 in (920 mm), Without driver at unladen weight

# Weights

s (159 kg), DIN unladen weight, ready d, 90 % full tank of gas, without OE
s (335 kg)
s (176 kg)

## Service

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# <u>10</u>

#### BMW Motorrad Service

Advanced technology requires specially adapted methods of maintenance and repair.

If this maintenance and repair work is performed inexpertly, there is a danger of damage and associated safety risks.

BMW Motorrad recommends having corresponding work on your motorcycle carried out by a specialized workshop, preferably by an authorized BMW Motorrad retailer.

You can contact your authorized BMW Motorrad retailer for information on the procedures included in BMW service, inspections and the annual inspection.

Have all maintenance and repair work carried out con-

firmed in the "Service" chapter in this manual.

Your authorized BMW Motorrad retailer is supplied with all the latest technical information and therefore possesses the necessary technical know –how. BMW Motorrad recommends that you refer any questions about your motorcycle to your authorized BMW Motorrad retailer.

# BMW Motorrad Service Quality

BMW Motorrad means not only quality workmanship and high reliability, but also an outstanding quality of service. To ensure that your BMW is always in optimum condition, BMW Motorrad recommends that you adhere to the regular maintenance schedule for your motorcycle, preferably having the work done by your

authorized BMW Motorrad retailer. For generous treatment of claims submitted after the warranty period has expired. evidence of regular maintenance is essential. Certain signs of wear, moreover, may otherwise not be noticed until it is too late to correct them at moderate cost. The workshop personnel at BMW Motorrad retailers have thorough knowledge of your motorcycle and can take action before minor problems can turn into major trouble. By having the necessary repairs done properly and in

good time, you save time and

money in the long run.

### BMW Motorrad Service Card - Onthe-spot breakdown assistance

With all new BMW motorcycles, the BMW Motorrad Service Card protects you in the event of a breakdown with an extensive range of services such as breakdown assistance, motorcycle transportation etc. (differing regulations are possible in individual countries). In the case of a breakdown, contact the Mobile Service of BMW Motorrad. Here you will find our specialists ready to help with both advice and action. Important country-specific contact addresses and the relevant after-sales service organization phone numbers as well as information on Mobile Service and the retail network can be found in the "Service Kontakt/Service Contact" brochures.

#### BMW Motorrad Service Network

With its worldwide service network, BMW Motorrad can attend to you and your motorcycle in over 100 countries around the globe. In Germany alone, there are approximately 200 authorized BMW Motorrad retailers ready to assist you.

All information on the international retail network is contained in the "Service Contact Europe" brochure and "Service Contact Africa, America, Asia, Australia and Oceania".

# Maintenance work

Some maintenance tasks must be performed after a certain time, others depend on the distance covered by the motorcycle.

#### BMW Runningin Check

The BMW running-in check has to be performed when the motorcycle has covered between 300 miles (500 km) and 750 miles (1,200 km).

#### **BMW Annual Inspection**

Some maintenance work must be carried out at least once a year. Other tasks depend on the distance the motorcycle has covered.

#### BMW Service

After the first 6,000 miles (10,000 km) and every additional 12,000 miles (20,000 km) (18,000 miles, 30,000 miles, 42,000 miles etc. (30 000 km, 50 000 km. 70 000 km etc.)) if this distance is covered within a year.

#### **BMW Inspection**

After the first 12,000 mi/ 20,000 km and every additional 12.000 mi/20.000 km (24.000 mi/40.000 km. 36,000 mi/60,000 km, 48,000 mi/80,000 km etc.), if this distance is covered within a year.

### Maintenance schedule

The maintenance schedule for your motorcycle depends on the equipment installed, and on the motorcycle's age and the distance it has covered. Your authorized BMW Motorrad retailer will be happy to supply a copy of the current maintenance schedule for your motorcycle on request.

#### Confirmation of maintenance work

#### BMW Pre-Delivery Check

Carried out properly in accordance with workshop specifications.

#### BMW Running-In Check

Carried out properly in accordance with workshop specifications.

Odometer reading.

Brake fluid changed

Date, stamp, signature

Date, stamp, signature

BMW Service  BMW Annual Inspection  BMW Service BMW Inspection	BMW Service  BMW Annual Inspection  BMW Service BMW Inspection	BMW Service  BMW Annual Inspection BMW Service BMW Inspection
Carried out properly in accordance with workshop specifications.	Carried out properly in accordance with workshop specifications.	Carried out properly in accordance with workshop specifications.
Odometer reading	Odometer reading	Odometer reading
☐ Brake fluid changed	☐ Brake fluid changed	☐ Brake fluid changed
Date, stamp, signature	Date, stamp, signature	Date, stamp, signature

BMW Service	BMW Service	BMW Service
<ul><li>□ BMW Annual Inspection</li><li>□ BMW Service</li><li>□ BMW Inspection</li></ul>	<ul><li>□ BMW Annual Inspection</li><li>□ BMW Service</li><li>□ BMW Inspection</li></ul>	<ul><li>□ BMW Annual Inspection</li><li>□ BMW Service</li><li>□ BMW Inspection</li></ul>
Carried out properly in accordance with workshop specifications.	Carried out properly in accordance with workshop specifications.	Carried out properly in accordance with workshop specifications.
Odometer reading	Odometer reading	Odometer reading
☐ Brake fluid changed	☐ Brake fluid changed	☐ Brake fluid changed
Date, stamp, signature	Date, stamp, signature	Date, stamp, signature

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Service

BMW Service	BMW Service	BMW Service
<ul><li>□ BMW Annual Inspection</li><li>□ BMW Service</li><li>□ BMW Inspection</li></ul>	<ul><li>☐ BMW Annual Inspection</li><li>☐ BMW Service</li><li>☐ BMW Inspection</li></ul>	<ul><li>□ BMW Annual Inspection</li><li>□ BMW Service</li><li>□ BMW Inspection</li></ul>
Carried out properly in accordance with workshop specifications.	Carried out properly in accordance with workshop specifications.	Carried out properly in accordance with workshop specifications.
Odometer reading	Odometer reading	Odometer reading
☐ Brake fluid changed	☐ Brake fluid changed	☐ Brake fluid changed
Date, stamp, signature	Date, stamp, signature	Date, stamp, signature

BMW Service	BMW Service	BMW Service
<ul><li>□ BMW Annual Inspection</li><li>□ BMW Service</li><li>□ BMW Inspection</li></ul>	<ul><li>□ BMW Annual Inspection</li><li>□ BMW Service</li><li>□ BMW Inspection</li></ul>	<ul><li>□ BMW Annual Inspection</li><li>□ BMW Service</li><li>□ BMW Inspection</li></ul>
Carried out properly in accordance with workshop specifications.	Carried out properly in accordance with workshop specifications.	Carried out properly in accordance with workshop specifications.
Odometer reading	Odometer reading	Odometer reading
☐ Brake fluid changed	☐ Brake fluid changed	☐ Brake fluid changed
Date, stamp, signature	Date, stamp, signature	Date, stamp, signature



#### **Confirmation of service**

The table is intended as proof of maintenance, warranty and repair work, the installed optional accessories and any special campaign (recall) work carried out.

Work carried out	Odometer reading	Date	

Work carried out	Odometer reading	Date

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# Reporting Safety Defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying BMW of North America, LLC.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or BMW of North America, LCC.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. You can also obtain other information about motor vehicle safety from

http://www.safercar.gov.

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 discrepan-

cies.

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fuel consumption and performance data are quoted to the customary tolerances. The right to modify designs, equipment and accessories is reserved. Errors and omissions except-

Dimensions, weights,

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#### Important data for refueling

Fuel		
Recommended fuel type	95 ROZ/RON, Super unleaded	
Usable fuel quantity	2.6 gal (10 l)	
Reserve fuel quantity	≥2.1 quarts (≥2 l)	
Tire pressures		
Front tire pressure	26.1 psi (1.8 bar), Single rider, with cold tire 27.6 psi (1.9 bar), Driver with passenger and/or load, with cold tire	
Rear tire pressure	29 psi (2 bar), Single rider, with cold tire 29 psi (2 bar), Driver with pas- senger and/or load, with cold tire	



Order No.: 01 47 7 708 197

10.2006, 1st Edition

