



**BMW
MOTORRAD**

RIDER'S MANUAL C 400 GT



MAKE LIFE A RIDE

Vehicle data

Model

Vehicle Identification Number

Colour code

Date of first registration

Registration number

Dealership details

Person to contact in Service department

Ms/Mr

Phone number

Dealership address/phone number (company stamp)

YOUR BMW.

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

About this rider's manual

Read this rider's manual carefully before starting to use your new BMW. It contains important information on how to operate the controls and how to make the best possible use of all your BMW's technical features.

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

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

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

BMW Motorrad.

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GENERAL INSTRUCTIONS

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4 GENERAL INSTRUCTIONS

OVERVIEW

Chapter 2 of this Rider's Manual will provide you with an initial overview of your Scooter. All maintenance and repair work on the vehicle is documented in Chapter 14. The record of the maintenance work you have had performed on your vehicle is a precondition for generous treatment of goodwill claims. When the time comes to sell your Scooter, please remember to hand over this rider's manual to the new owner. It is an important part of the vehicle.

ABBREVIATIONS AND SYMBOLS

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

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

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

 **ATTENTION** Special notes and precautionary measures. Non-compliance can lead to damage to the vehicle or ac-

cessory and, consequently, to voiding of the warranty.

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

• Instruction.

» Result of an activity.

 Reference to a page with more detailed information.

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

 Tightening torque.

 Technical data.

NV National-market version.

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

OA	Optional accessories. You can obtain BMW Motorrad optional accessories through your authorised BMW Motorrad dealer; optional accessories have to be retrofitted to the vehicle.
EWS	Electronic immobiliser.
DWA	Anti-theft alarm.
ABS	Anti-lock brake system.
ASC	Automatic Stability Control.
CVT	Continuously Variable Transmission. Transmission with continuously variable ratio

EQUIPMENT

When you ordered your Scooter, you chose various items of custom equipment. This Rider's Manual describes optional extras (OE) offered by BMW and selected optional accessories (OA). This explains why the manual may also contain descriptions of equipment that you might not have selected. Please note, too, that

on account of country-specific differences, your vehicle might not be exactly as illustrated. If your Scooter was supplied with equipment not described in this Rider's Manual, you will find these features described in separate operating instructions.

TECHNICAL DATA

All dimensions, weights and power ratings stated in the rider's manual are quoted to the standards and comply with the tolerance requirements of the Deutsches Institut für Normung e. V. (DIN). Technical data and specifications in this rider's manual are guide values. The vehicle-specific data may deviate from these, for example as a result of selected optional equipment, the national-market version or country-specific measuring procedures. Detailed values can be taken from the vehicle registration documents, or can be obtained from your authorised BMW Motorrad retailer or another qualified service partner or specialist workshop. The specifications in the vehicle documents always have priority over the information provided in this rider's manual.

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CURRENCY

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

ADDITIONAL SOURCES OF INFORMATION

Authorised BMW Motorrad retailer

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

Internet

The rider's manual for your vehicle, operating and installation instructions for accessories and general information about BMW Motorrad, in relation to technology, for example, are available for download from **bmw-motorrad.com/manuals**.

CERTIFICATES AND OPERATING LICENCES

The certificates for the vehicle and the official operating licences for accessories can be downloaded from **bmw-motorrad.com/certification**.

DATA MEMORY

General

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

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

Personal reference

Each vehicle is identified with a clear vehicle identification number. Depending on the country, the vehicle identification number, the number plate and the corresponding authorities can be referenced to ascertain the vehicle owner. There are also other ways to use data obtained from the vehicle to trace the rider or vehicle owner, for example using the Connected-Drive user account.

Data protection rights

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

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

These entities may include:

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

Vehicle users have the right to request information on what personal data has been stored,

for what purpose the data is used, and where the data comes from. To obtain this information, proof of ownership or use is required.

The right to information also includes information about data that has been shared with other companies or entities. The website of the vehicle manufacturer contains the applicable data protection information. This data protection information includes information on the right to have data deleted or corrected. The manufacturer of the vehicle also provides their contact details and those of the data protection officer on their website.

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

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

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Legal requirements for the disclosure of data

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

Operating data in the vehicle

Control units process data to operate the vehicle.

This includes, for example:

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

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

Electronic components, for example control units, contain components for storing technical information. Information

can be temporarily or permanently stored on the vehicle condition, component loads, incidents or errors.

This information is generally used to document the condition of a component, a module, a system or the surrounding area, for example:

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

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

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

fault memories as required by events.

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

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

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

In addition, the manufacturer has various product monitoring obligations arising from product liability legislation. To meet these obligations, the vehicle manufacturer requires technical data from the vehicle. The data from the vehicle can

also be used to check warranty claims from the customer.

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

Data input and data transfer in the vehicle

General

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

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

Depending on the individual equipment, this includes:

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

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for example smartphone, USB stick, MP3 player. If this data is stored in the vehicle, the data can be deleted at any time.

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

Incorporation of mobile devices

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

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

The type of additional data processing is determined by the provider of the respective app. The scope of the possible set-

tings depends on the corresponding app and the operating system of the mobile device.

Services

General

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

Services of the vehicle manufacturer

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

the IT systems provided by the vehicle manufacturer.

Obtaining, processing and using personal data outside of the normal provision of services requires legal permission, contractual agreement or consent. It is also possible to have the entire data connection activated or deactivated. Statutory functions are excluded from this.

Services from other providers

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

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14 GENERAL VIEWS

GENERAL VIEW, LEFT SIDE



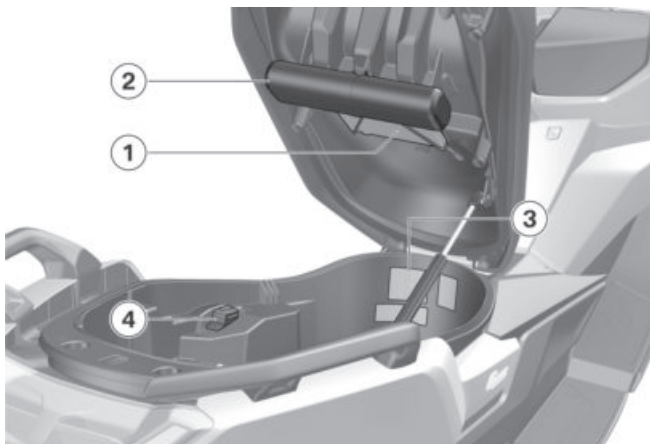
- 1** Brake-fluid reservoir for the rear-wheel brake (➡ 146)
- 2** Under the battery cover:
Battery (➡ 164)
Fuses (➡ 161)
Diagnostic connector (➡ 172)
- 3** Adjustment of spring preload (➡ 114)
- 4** Fuel filler neck (➡ 127)
- 5** Coolant expansion tank (under left fairing side panel) (➡ 147)

GENERAL VIEW, RIGHT SIDE

- 1** Brake-fluid reservoir for the front-wheel brake (➡ 146)
- 2** Coolant-level indicator (➡ 147)
- 3** Type plate (on the right frame tube)
Vehicle identification number (on right frame tube)
- 4** Oil filler opening and oil dipstick (➡ 142)
- 5** Emergency release for seat
Operate the seat (➡ 80).

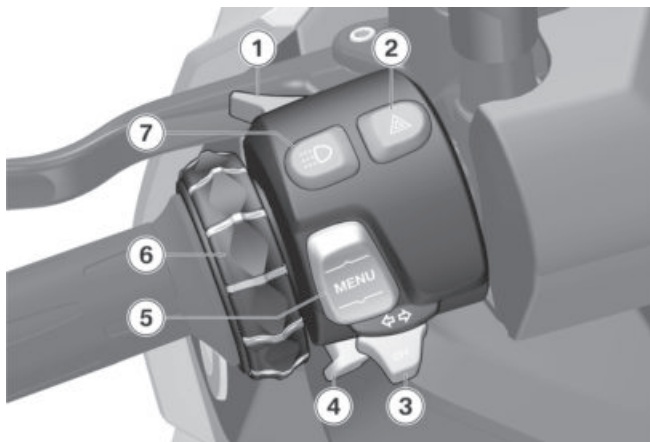
16 GENERAL VIEWS

UNDERNEATH THE SEAT



- 1** Rider's manual
- 2** Toolkit (➡ 140)
- 3** Payload table
Tyre pressures table
Note on use of accessory products
- 4** Unlocking rear storage compartment (BMW flex-case) (➡ 82)

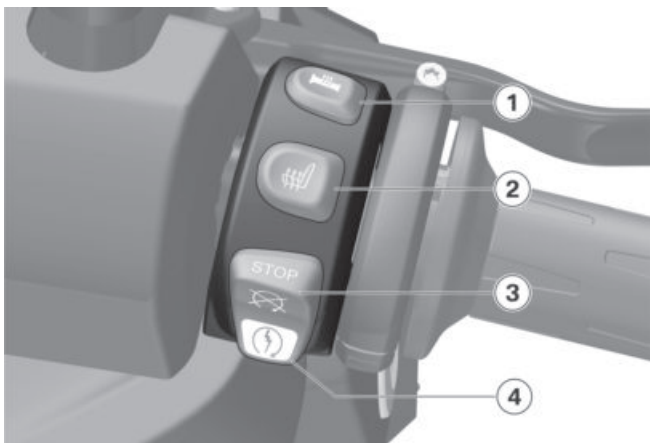
MULTIFUNCTION SWITCH, LEFT



- | | |
|---|---|
| <p>1 High-beam headlight and headlight flasher (➡ 68)</p> <p>2 Hazard warning lights (➡ 72)</p> <p>3 Turn indicators (➡ 73)</p> <p>4 Horn</p> <p>5 MENU rocker button
Select displays. (➡ 74)
Call up SETUP. (➡ 75)
Operate the TFT display. (➡ 87)</p> <p>6 Multi-Controller Controls (➡ 87)</p> | <p>7 Daytime riding light
-with daytime riding light^{OE}
Automatic daytime riding light (➡ 69).</p> |
|---|---|

18 GENERAL VIEWS

MULTIFUNCTION SWITCH, RIGHT



- 1** –with heated grips^{OE}
Operating the heated handlebar grips (➡ 78).
Heated grips
- 2** –with seat heating^{OE}
Operate the rider's seat heating (➡ 79).
Seat heating
- 3** Emergency-off switch (kill switch) (➡ 67)
- 4** Starter button (➡ 121)

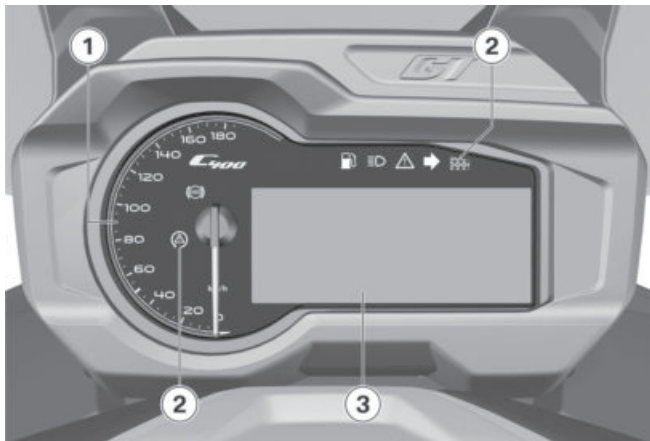
COCKPIT

- 1** Control module for Key-less Ride (►► 62)
- 2** Unlocking storage compartment, right (►► 81)
- 3** Storage compartment, right (►► 81)
Socket (in storage compartment) (►► 176)
USB charging socket (in storage compartment) (►► 177)
- 4** Unlocking seat (►► 80)
- 5** Storage compartment, left (►► 81)
- 6** Unlocking storage compartment, left (►► 81)

20 GENERAL VIEWS

INSTRUMENT CLUSTER

—without Connectivity^{OE}



- 1 Speedometer
- 2 Indicator and warning lights
- 3 Multifunction display

INSTRUMENT CLUSTER WITH CONNECTIVITY

—with Connectivity^{OE}



- | | |
|--|--|
| <p>1 Indicator and warning lights with Connectivity (➡ 38)</p> <p>2 TFT display (➡ 39) (➡ 40)</p> <p>3 Alarm system LED
—with anti-theft alarm (DWA)^{OE}
Alarm signal (➡ 110)
Indicator light for the radio-operated key
Switching on ignition (➡ 63).</p> | <p>4 Photosensor (for adapting the brightness of the instrument lighting)</p> |
|--|--|

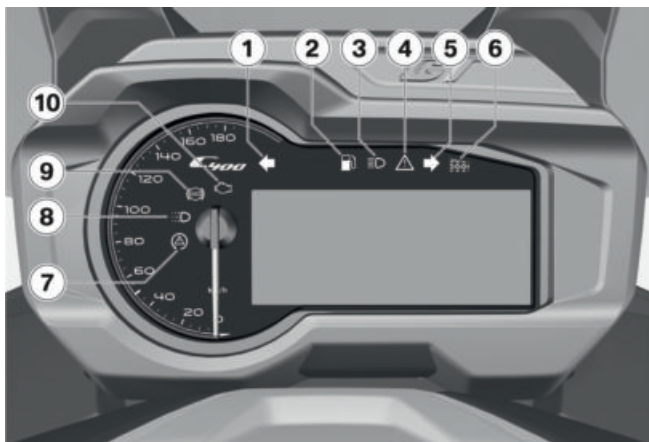
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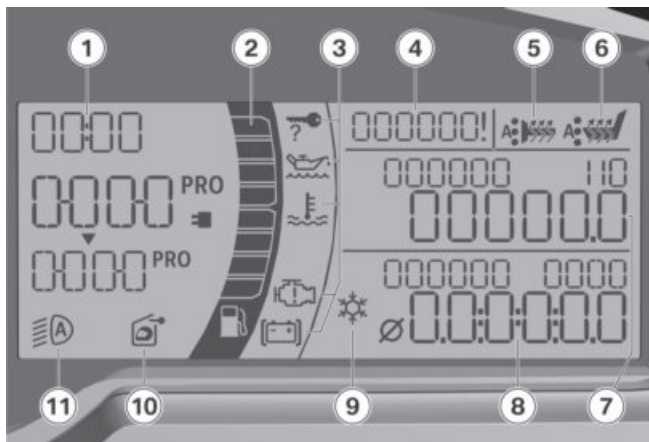
24 STATUS INDICATORS

INDICATOR AND WARNING LIGHTS



- | | |
|---|--|
| 1 Turn indicators, left
(➡ 73) | 10 Warning light, drive mal-
function (➡ 31) |
| 2 Fuel reserve (➡ 35) | |
| 3 High-beam headlight
(➡ 68) | |
| 4 General warning light
(➡ 26) | |
| 5 Turn indicators, right
(➡ 73) | |
| 6 Alarm system LED
(➡ 110) | |
| 7 ASC (➡ 33) | |
| 8 Daytime riding light
(➡ 68) | |
| 9 ABS (➡ 33) | |

MULTIFUNCTION DISPLAY



- 1** Clock (➡ 77)
- 2** Fuel-gauge reading
- 3** Warning symbols (➡ 26)
- 4** Text field for warnings (➡ 26)
- 5** Heated grips (➡ 78)
- 6** Rider's seat heating (➡ 79)
- 7** Tripmeter (➡ 74)
Service display (➡ 35)
- 8** On-board computer readings (➡ 74)
- 9** Outside temperature warning (➡ 29)
- 10** BMW Flexcase (➡ 82)
- 11** Automatic for daytime riding light (➡ 69)

26 STATUS INDICATORS

WARNING INDICATORS

Mode of presentation

Warnings are indicated by the corresponding warning lights.



Warnings that do not have warning lights of their own are indicated by 'general' warning light **1** showing in combination with a text warning at position **2**, such as **LAMPF!** or a warning symbol **3** in the multi-function display.

The 'general' warning light shows red or yellow, depending on the urgency of the warning. If two or more warnings occur at the same time, all the appropriate warning lights and warning symbols appear, text warnings are alternated.

The possible warnings are listed on the following pages.

Warnings, overview

Indicator and warning lights	Display text	Meaning
	 is displayed.	Outside temperature warning (→ 29)
 lights up yellow.	 is displayed.	EWS active (→ 29)
 lights up yellow.	 is displayed.	Radio-operated key out of range (→ 29)
 lights up red.	 is displayed.	Coolant temperature too high (→ 30)
 lights up yellow.	 is displayed.	Engine-oil level too low (→ 30)
	OIL CHECK is displayed.	
 lights up yellow.	 is displayed.	Engine in emergency-operation mode (→ 31)
 shows.		Drive malfunction (→ 31)
 flashes yellow.	 flashes	Serious drive malfunction (→ 31)
 flashes.		
 lights up yellow.	 flashes.	Serious fault in engine control (→ 32)
 lights up yellow.	LAMPF!, LAMPR! or LAMPS! is displayed.	Bulb faulty (→ 32)

28 STATUS INDICATORS

Indicator and warning lights	Display text	Meaning
 flashes.		ABS self-diagnosis not completed (→ 33)
 shows.		ABS fault (→ 33)
 quick-flashes.		ASC intervention (→ 33)
 slow-flashes.		ASC self-diagnosis not completed (→ 33)
 shows.		ASC fault (→ 34)
 lights up yellow.	 is displayed.	BMW flexcase opened (→ 34)
	DWALO! is displayed	Anti-theft alarm battery weak (→ 34)
 lights up yellow.	DWALO! is displayed	Anti-theft alarm battery flat (→ 34)
 lights up red.	 is displayed.	Insufficient battery charge current (→ 35)
 shows.		Fuel down to reserve (→ 35)

Ambient temperature



There is a risk of black ice if the ambient temperature falls below the limit value of approx. 3 °C.

Regardless of the display settings the display automatically switches over to the temperature display when the ambient temperature drops below this threshold for the first time.

Outside temperature warning



is displayed.

Possible cause:



The air temperature measured at the vehicle is lower than:

approx. 3 °C



WARNING

Risk of black ice forming even when temperature is above approx. 3 °C

Risk of accident

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

- Ride carefully and think well ahead.

EWS active



lights up yellow.



is displayed.

Possible cause:

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

- Remove all other vehicle keys from the same ring as the key used for the vehicle.
- Use second ignition key.
- Have the defective vehicle key replaced, preferably by an authorised BMW Motorrad dealer.

Radio-operated key out of range



lights up yellow.



is displayed.

Possible cause:

Communication between R/C key and engine electronics is disrupted.

- Check the battery in the radio-operated key.
- Replacing battery of radio-operated key (➔ 65).

30 STATUS INDICATORS

- Use the reserve key to continue your journey.
- Battery of the radio-operated key is empty or loss of the radio-operated key (► 65).
- Remain calm if the warning symbol appears while you are riding. You can continue your journey; the engine will not switch off.
- Have the defective radio-operated key replaced by an authorised BMW Motorrad Retailer.

Coolant temperature too high



lights up red.



is displayed.



ATTENTION

Riding with overheated engine

Engine damage

- Compliance with the information set out below is essential.

Possible cause:

The coolant level is too low.

- Check the coolant level (► 147).

If the coolant level is too low:

- Have the cooling system checked by a specialist

workshop, preferably an authorised BMW Motorrad Retailer.

Possible cause:

The coolant or engine oil temperature is too high.

- If possible, ride in the part-load range to cool down the engine.
- If the coolant or engine oil temperature is frequently too high, have the fault rectified as soon as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Engine-oil level too low



lights up yellow.



is displayed.

OIL CHECK is displayed.

Possible cause:

The electronic oil-level sensor has registered an excessively low oil level. Check the engine oil level using the oil dipstick at the next refuelling stop:

- Checking engine oil level (► 142).

If the oil level is too low:

- Topping up the engine oil.

Engine in emergency-operation mode



lights up yellow.



is displayed.



WARNING

Unusual ride characteristics when engine running in emergency-operation mode

Risk of accident

- Avoid accelerating sharply and overtaking.

Possible cause:

The engine control unit has diagnosed a fault. The engine is in emergency-operation mode.

- You can continue to ride, but bear in mind that the usual engine performance might not be available.
- » The malfunction indicator lamp lights up as well if pollutant emissions exceed the threshold values.
- » In exceptional cases, the engine stops and refuses to start.
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad retailer.

Drive malfunction



shows.

Possible cause:

The engine control unit has diagnosed a fault.

- Have the fault rectified by a specialist workshop at the next opportunity, preferably an authorised BMW Motorrad Retailer.
- » You can continue riding; pollutant emissions are higher than the threshold values.

Serious drive malfunction



flashes yellow.



flashes.



The engine symbol flashes.

Possible cause:

The engine control unit has diagnosed a fault that can lead to damage to the exhaust system.

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad retailer.
- » It is possible to continue to ride but not recommended.

32 STATUS INDICATORS

Serious fault in engine control



lights up yellow.



flashes.



WARNING

Engine damage when running in emergency-operation mode

Risk of accident

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

Possible cause:

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

- Avoid high load and rpm ranges if possible.
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad retailer.

» It is possible to continue to ride but not recommended.

Bulb faulty



lights up yellow.

LAMP ! is displayed:

- LAMPF !: Low-beam headlight, high-beam headlight, side light or front turn indicator faulty.
- with daytime riding light^{OE}
- LAMPF !: Additionally: daytime riding light faulty.◁
- LAMPR !: Brake light, rear light, rear indicator light or number plate light faulty.
- LAMPS !: More than one light faulty.



WARNING

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

Safety risk

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

Possible cause:

Bulb faulty.

- Visually inspect to ascertain which bulb is faulty.
- Have LED light sources replaced as complete units; consult a specialist work-

shop, preferably an authorised BMW Motorrad retailer.

ABS self-diagnosis not completed



flashes.

Possible cause:

Self-diagnosis did not complete, so the ABS function is not available. The Scooter must be ridden at a speed of at least 5 km/h in order for ABS self-diagnosis to complete.

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

ABS fault



shows.

Possible cause:

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

- Further riding is possible, although allowance must be made for the lack of the ABS function. Take note of the more detailed information on situations that can lead to an ABS fault (135).
- Have the fault rectified as quickly as possible by a specialist workshop, preferably

an authorised BMW Motorrad Retailer.

ASC intervention



quick-flashes.

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

ASC self-diagnosis not completed



slow-flashes.

Possible cause:



ASC self-diagnosis not completed

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

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

34 STATUS INDICATORS

- Consult a specialist workshop, preferably an authorised BMW Motorrad retailer.

ASC fault



shows.

Possible cause:

The ASC control unit has detected a fault.

- You can continue to ride.
Bear in mind that the ASC is not available. Take note of the more detailed information on situations that can lead to an ASC fault (136).
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

BMW flexcase opened



lights up yellow.



is displayed.

Possible cause:

The BMW flexcase is opened.

- Close BMW flexcase.
- Close the rear storage compartment (BMW flexcase) (82).

Anti-theft alarm battery weak

—with anti-theft alarm (DWA)^{OE}

DWALO! is displayed.



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

Possible cause:

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

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

Anti-theft alarm battery flat

—with anti-theft alarm (DWA)^{OE}



lights up yellow.

DWALO! is displayed.



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

Possible cause:

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

alarm will be operational if the vehicle battery is disconnected.

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

Insufficient battery charge current



lights up red.



is displayed.



WARNING

Failure of the vehicle systems

Risk of accident

- Do not continue your journey.

Battery is not being charged. If you continue to ride the motorcycle the on-board electronics will drain the battery.

Possible cause:

Alternator or alternator drive faulty.

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

Fuel down to reserve



shows.



WARNING

Irregular engine operation or engine shutdown due to lack of fuel

Risk of accident, damage to catalytic converter

- Do not run the fuel tank dry.

Possible cause:

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



Reserve volume

approx. 3 l

- Refuelling (127).

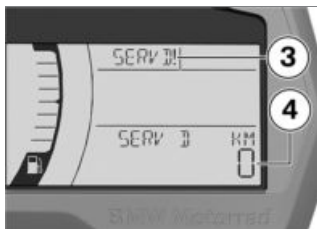
SERVICE-DUE INDICATOR



The **SERV T! 1** message and the service date **2** are displayed if the service is due within the month. This

36 STATUS INDICATORS

information appears briefly after the Pre-Ride-Check completes.



When a service is due within 1000 kilometres, the wording **SERVD!** **3** and countdown distance **4** are displayed and the distance counts down in steps of 100 kilometres. This information appears briefly after the Pre-Ride-Check completes.

 If service is overdue, the due date or the odometer reading at which service was due is accompanied by the 'General' warning light showing yellow. The **SERVD!** or **SERVT!** messages are displayed permanently.

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

OIL LEVEL



The oil-level indicator **1** gives you an indication of the engine oil level. You can call up this reading only when the vehicle is at a standstill.

The preconditions for the oil level check are as follows:

- Engine at operating temperature.
- Engine idling for at least 20 seconds.
- No brake applied.
- Side stand retracted.
- Scooter standing upright.

The possible displays on items **1** and **2** signify:

OILLVL OK: Oil level is correct.

OILLVL CHECK: Check the oil level the next time you stop for fuel.

OILLVL -- -- --: Oil level cannot be measured (conditions as stated above not satisfied).

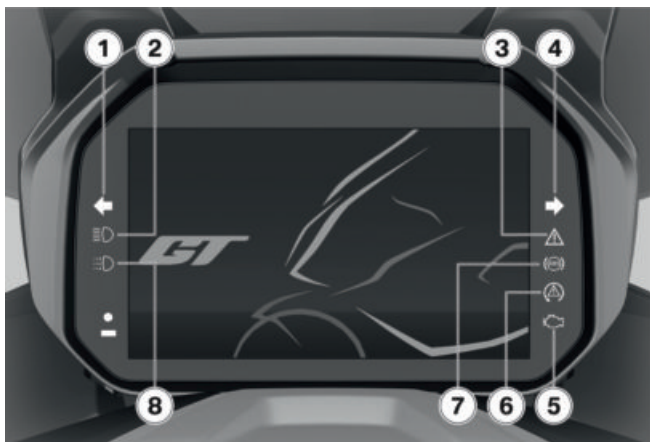


If the oil level is too low, the corresponding warning symbol is displayed.

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INDICATOR AND WARNING LIGHTS WITH CONNECTIVITY

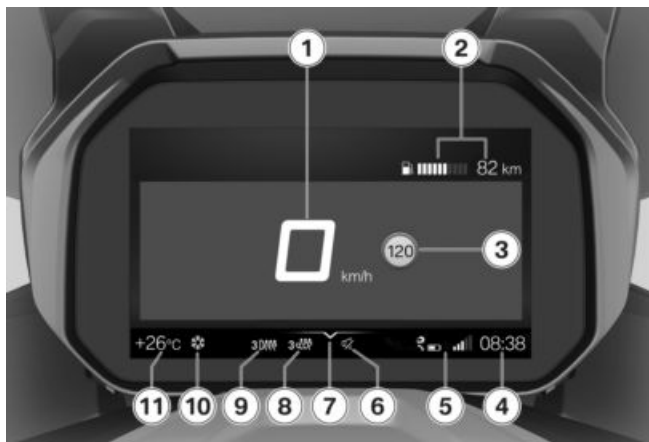
—with Connectivity^{OE}



- | | |
|---|---|
| 1 Turn indicators, left
(73) | 8 —with daytime riding
light ^{OE}
Manual daytime riding
light (71). |
| 2 High-beam headlight
(68) | |
| 3 General warning light
(41) | |
| 4 Turn indicators, right
(73) | |
| 5 Warning light, drive mal-
function
Drive malfunction (53) | |
| 6 ASC (33) | |
| 7 ABS (33) | |

TFT DISPLAY IN PURE VIEW

—with Connectivity^{OE}



- 1** Speedometer
- 2** Rider info. status line
(91)
- 3** Speed Limit Info (92)
- 4** Clock (94)
- 5** Connection status
(96)
- 6** Muting (93)
- 7** Operating help
- 8** Rider's seat heating
(79)
- 9** Heated grips (78)
- 10** Outside temperature
warning (47)
- 11** Ambient temperature

40 STATUS INDICATORS

TFT DISPLAY IN MENU VIEW

—with Connectivity^{OE}



- | | |
|---|--|
| 1 Menu section | 11 Outside temperature warning (▮▮▮ 47) |
| 2 Speedometer | 12 Ambient temperature |
| 3 Speed Limit Info (▮▮▮ 92) | |
| 4 Rider info. status line (▮▮▮ 91) | |
| 5 Clock
Set the clock (▮▮▮ 94). | |
| 6 Connection status
Perform Bluetooth pairing (▮▮▮ 96). | |
| 7 Muting (▮▮▮ 93) | |
| 8 Operating help | |
| 9 Rider's seat heating (▮▮▮ 79) | |
| 10 Heated grips (▮▮▮ 78) | |

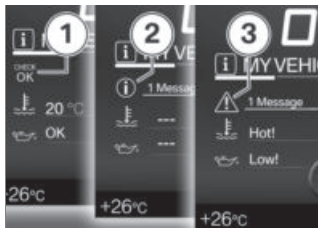
INDICATOR LIGHTS WITH CONNECTIVITY

Mode of presentation

Warnings are indicated by the corresponding warning lights. Warnings are indicated by the 'General' warning light showing in combination with a dialogue in the TFT display. The 'General' warning light shows yellow or red, depending on the urgency of the warning.



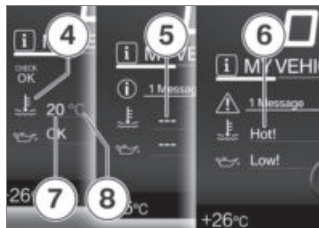
The status of the 'General' warning light matches the most urgent warning. The possible warnings are listed on the next pages.



Check Control display

The messages differ in how they show on the display. Different colours and symbols are used depending on priority:

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



Values display

Symbols **4** differ in how they show on the display. The colours used differ and reflect the urgency of the message. Along with numerical values **7** with units **8**, texts **6** are displayed as well:

Colour of the symbol

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

42 STATUS INDICATORS

- Red: (Hot!/High!) Current temperature or value is too high.
- White: (---) No valid value available. Dashes **5** are displayed instead of a numerical value.

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

- If there are two or more Check Control messages of equal priority, the messages keep changing in the order of their occurrence until they are acknowledged.
- If symbol **2** is actively displayed, it can be acknowledged by tilting the Multi-Controller to the left.
- Check Control messages are attached dynamically to the pages as additional tabs in the *My vehicle* menu ( 89). The message can be called up again as long as the fault persists.



Check Control dialogue

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

Warnings, overview

Indicator and warning lights	Display text	Meaning
	 is displayed.	Outside temperature warning (▮▮▮ 47)
 lights up yellow.	 Remote key not in range.	Radio-operated key out of range (▮▮▮ 47)
 lights up yellow.	 Keyless Ride failure	Keyless Ride failed (▮▮▮ 48)
 lights up yellow.	 Remote key battery at 50%.	Replacing battery of radio-operated key (▮▮▮ 48)
	 Remote key battery weak.	
	 is displayed in yellow.	Voltage of the vehicle electrical system too low (▮▮▮ 48)
	 Vehicle voltage low.	
 lights up red.	 is displayed in red.	Voltage of the vehicle electrical system critical (▮▮▮ 49)
	 Vehicle voltage critical!	
 flashes yellow.	 is displayed in red.	Charging voltage critical (▮▮▮ 49)
	 Battery voltage critical!	
 lights up yellow.	 The faulty bulb is displayed.	Bulb faulty (▮▮▮ 50)
	 Alarm system batt. capacity weak.	Anti-theft alarm battery weak (▮▮▮ 51)

44 STATUS INDICATORS

Indicator and warning lights	Display text	Meaning
	 Alarm system battery empty.	Anti-theft alarm battery flat (▣▣▣▣➔ 51)
	 Alarm system failure	DWA failed (▣▣▣▣➔ 51)
	 Engine oil level. Check engine oil level.	Engine-oil level too low (▣▣▣▣➔ 52)
 lights up red.	 Coolant temperature too high!	Coolant temperature too high (▣▣▣▣➔ 52)
 shows.	 Engine!	Drive malfunction (▣▣▣▣➔ 53)
 flashes red.	 Serious fault in the engine control!	Serious drive malfunction (▣▣▣▣➔ 53)
 flashes.		
 lights up yellow.	 No communication with engine control.	Engine control failed (▣▣▣▣➔ 53)
 lights up yellow.	 Fault in the engine control.	Engine in emergency-operation mode (▣▣▣▣➔ 54)
 flashes yellow.	 Serious fault in the engine control!	Serious fault in engine control (▣▣▣▣➔ 54)
	 Side stand monitoring faulty.	Side stand monitoring is faulty (▣▣▣▣➔ 55)

Indicator and warning lights	Display text	Meaning
 flashes.		ABS self-diagnosis not completed (→ 33)
 lights up yellow.	 Limited ABS availability!	ABS fault (→ 55)
 shows.		
 lights up yellow.	 ABS failure!	ABS failed (→ 56)
 shows.		
 quick-flashes.		ASC intervention (→ 33)
 slow-flashes.		ASC self-diagnosis not completed (→ 33)
	 Traction control deactivated.	
 shows.	 Traction control failure!	ASC fault (→ 57)
	 Engine start not poss. BMW flexcase open. Close BMW flexcase.	BMW flexcase opened (→ 57)
	 Tank reserve level reached. Ride to the next filling station.	Fuel down to reserve (→ 57)

46 STATUS INDICATORS

Indicator and warning lights	Display text	Meaning
 flashes green.		Hazard warning lights system
 flashes green.		is switched on ( 57)
	 is displayed in white. Service due!	Service due ( 58)
 lights up yellow.	 is displayed in yellow. Service over-due!	Service-due date has passed ( 58)

Ambient temperature

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

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



There is a risk of black ice if the ambient temperature falls below the limit value of approx. 3 °C.

The first time the temperature drops below this value, the ambient-temperature reading and the ice crystal symbol flash in the status line of the TFT display.

Outside temperature warning



is displayed.

Possible cause:



The air temperature measured at the vehicle is lower than:

approx. 3 °C



WARNING

Risk of black ice forming even when temperature is above approx. 3 °C

Risk of accident

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

- Ride carefully and think well ahead.

Radio-operated key out of range



lights up yellow.



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

Possible cause:

Communication between R/C key and engine electronics is disrupted.

- Check the battery in the radio-operated key.
- Replacing battery of radio-operated key (→ 65).
- Use the reserve key to continue your journey.

48 STATUS INDICATORS

- Battery of the radio-operated key is empty or loss of the radio-operated key (➡ 65).
- If a check control dialogue box appears during the journey, remain calm. You can continue your journey; the engine will not switch off.
- Have the defective radio-operated key replaced by an authorised BMW Motorrad Retailer.

Keyless Ride failed



lights up yellow.



Keyless Ride failure
Do not stop the engine. It may not be possible to restart the engine.

Possible cause:

The Keyless Ride control unit has diagnosed a communication fault.

- Do not switch off the engine. Proceed as directly as possible to an authorised workshop, preferably an authorised BMW Motorrad retailer.
 - » Engine start with Keyless Ride no longer possible.
 - » DWA can no longer be activated.

Replacing battery of radio-operated key



lights up yellow.



Remote key battery at 50%. No functional impairment.



Remote key battery weak. Function limited. Change battery.

Possible cause:

- The integral battery in the radio-operated key has lost a significant proportion of its original capacity. There is no assurance of how long the R/C key can remain operational.
- Replacing battery of radio-operated key (➡ 65).

Voltage of the vehicle electrical system too low



is displayed in yellow.



Vehicle voltage low. Switch off unnecessary consumers.

The voltage of the vehicle electrical system is too low. If you continue to ride the motorcycle the on-board electronics will drain the battery.

Possible cause:

Consumers with high power consumption are in operation (such as heated body warmers), too many consumers are in operation at one time, or battery faulty.

- Switch off non-essential consumers or disconnect them from the vehicle's electrical system.
- If the fault persists or occurs without consumers connected, have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad retailer.

Voltage of the vehicle electrical system critical



lights up red.



is displayed in red.



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



WARNING

Failure of the vehicle systems

Risk of accident

- Do not continue your journey.

Battery is not being charged. If you continue to ride the motorcycle the on-board electronics will drain the battery.



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

Possible cause:

Alternator or alternator drive faulty.

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

Charging voltage critical



flashes yellow.



is displayed in red.



Battery voltage critical! Accident risk. Stop driving.

50 STATUS INDICATORS



WARNING

Failure of the vehicle systems

Risk of accident

- Do not continue your journey.

Battery is not being charged. If you continue to ride the motor-cycle the on-board electronics will drain the battery.

Possible cause:

Alternator or alternator drive faulty.

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

Bulb faulty



lights up yellow.



The faulty bulb is displayed:



High beam faulty!



Front left turn indicator faulty! or

Front right turn indicator faulty!



Low-beam headlight faulty!



Front side light faulty!

—with daytime riding light^{OE}



Daytime riding light faulty!◁



Tail light faulty!



Brake light faulty!



Rear left turn indicator faulty! or

Rear right turn indicator faulty!

—Have it checked by a specialist workshop.



WARNING

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

Safety risk

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

Possible cause:

Several lights front and rear faulty.

- Please read the fault descriptions listed earlier.

Anti-theft alarm battery weak—with anti-theft alarm (DWA)^{OE}

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

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

Possible cause:

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

- Consult a specialist workshop, preferably an authorised BMW Motorrad retailer.

Anti-theft alarm battery flat—with anti-theft alarm (DWA)^{OE}

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

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

Possible cause:

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

- Consult a specialist workshop, preferably an authorised BMW Motorrad retailer.

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

 Alarm system failure
Have it checked by a specialist workshop.

Possible cause:

The DWA control unit has diagnosed a communication fault.

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

Electronic oil-level check

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

52 STATUS INDICATORS

The following preconditions have to be satisfied for electronic oil-level checking, and several measurements might have to be taken:

- Rider is sitting on the vehicle and vehicle has just been ridden at a speed of at least min 10 km/h.
- Engine idling for at least 20 seconds.
- Engine is at operating temperature.
- Vehicle is standing upright on a smooth, level surface.
- Side stand is retracted and vehicle is not propped on its centre stand.
- The spring strut is appropriately set for the load status, or D-ESA is in Auto load mode.

If measurement is incomplete or if these conditions are not met, the oil level cannot be judged by the system. Dashes (---) appear on the display instead of a reading.

Engine-oil level too low



Engine oil level.
Check engine oil level.

Possible cause:

The electronic oil-level sensor has registered an excessively low oil level. Check the engine oil level using the oil dipstick at the next refuelling stop:

- Checking engine oil level (142).

If the oil level is too low:

- Topping up the engine oil.

Coolant temperature too high



lights up red.



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



ATTENTION

Riding with overheated engine

Engine damage

- Compliance with the information set out below is essential.

Possible cause:

The coolant level is too low.

- Check the coolant level (147).

If the coolant level is too low:

- Have the cooling system checked by a specialist workshop, preferably an

authorised BMW Motorrad Retailer.

Possible cause:

The coolant or engine oil temperature is too high.

- If possible, ride in the part-load range to cool down the engine.
- If the coolant or engine oil temperature is frequently too high, have the fault rectified as soon as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

Drive malfunction



shows.



Engine! Have it checked by a specialist workshop.

Possible cause:

The engine control unit has diagnosed a fault.

- Have the fault rectified by a specialist workshop at the next opportunity, preferably an authorised BMW Motorrad Retailer.
- » You can continue riding; pollutant emissions are higher than the threshold values.

Serious drive malfunction



flashes red.



flashes.



Serious fault in the engine control! Riding at mod. speed pos. Damage possible. Have checked by workshop.

Possible cause:

The engine control unit has diagnosed a fault that can lead to damage to the exhaust system.

- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad retailer.
- » It is possible to continue to ride but not recommended.

Engine control failed



lights up yellow.



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

54 STATUS INDICATORS

Possible cause:

Communication with the engine control unit has failed.

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

Engine in emergency-operation mode



lights up yellow.



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



WARNING

Unusual ride characteristics when engine running in emergency-operation mode

Risk of accident

- Avoid accelerating sharply and overtaking.

Possible cause:

The engine control unit has diagnosed a fault. In exceptional cases, the engine stops and refuses to start. Otherwise, the engine runs in emergency operating mode.

- You can continue to ride, but bear in mind that the usual

engine performance might not be available.

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

Serious fault in engine control



flashes yellow.



Serious fault in the engine control! Riding at mod. speed pos. Damage possible. Have checked by workshop.



WARNING

Engine damage when running in emergency-operation mode

Risk of accident

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

Possible cause:

The engine control unit has diagnosed a fault which may cause severe secondary faults.

The engine is in emergency-operation mode.

- Avoid high load and rpm ranges if possible.
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad retailer.

» It is possible to continue to ride but not recommended.

Side stand monitoring is faulty



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

Possible cause:

The side-stand switch or its wiring are damaged. The engine is shut down when speed drops below 5 km/h. You cannot resume your journey.

- Consult a specialist workshop, preferably an authorised BMW Motorrad retailer.

ABS self-diagnosis not completed



flashes.

Possible cause:

Self-diagnosis did not complete, so the ABS function is not available. The Scooter must be ridden at a speed of at least 5 km/h in order for ABS self-diagnosis to complete.

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

ABS fault



lights up yellow.



shows.



Limited ABS availability! Onward journey possible. Ride carefully to next specialist workshop.

Possible cause:

The ABS control unit has detected a fault. The ABS function is restricted.

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

56 STATUS INDICATORS

lead to an ABS fault message (135).

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

ABS failed



lights up yellow.



shows.



ABS failure! Onward journey possible.

Ride carefully to next specialist workshop.

Possible cause:

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

- Further riding is possible, although allowance must be made for the lack of the ABS function. Take note of the more detailed information on situations that can lead to an ABS fault (135).
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

ASC intervention



quick-flashes.

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

ASC self-diagnosis not completed



slow-flashes.

Possible cause:



ASC self-diagnosis not completed

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

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

- Consult a specialist workshop, preferably an authorised BMW Motorrad retailer.

ASC fault



shows.



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

Possible cause:

The ASC control unit has detected a fault.

- You can continue to ride.
Bear in mind that the ASC is not available. Take note of the more detailed information on situations that can lead to an ASC fault (► 136).
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

BMW flexcase opened



Engine start not poss. BMW flexcase open. Close BMW flexcase.

Possible cause:

The BMW flexcase is opened.

- Close BMW flexcase.
- Close the rear storage compartment (BMW flexcase) (► 82).

Fuel down to reserve



Tank reserve level reached. Ride to the next filling station.



WARNING

Irregular engine operation or engine shutdown due to lack of fuel

Risk of accident, damage to catalytic converter

- Do not run the fuel tank dry.

Possible cause:

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



Reserve volume

approx. 3 l

- Refuelling (► 127).

Hazard warning lights system is switched on



flashes green.

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flashes green.

Possible cause:

The driver has switched on the hazard warning lights system.

- Operating hazard warning flashers (➡ 72).

Service display



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

If the service is overdue, a yellow Check Control message is displayed. Exclamation marks also draw your attention to the displays for service, service appointment and countdown distance in the MY VEHICLE and SERVICE REQUIREMENTS menu screens.



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

Service due



is displayed in white.

Service due! Have service performed by a specialist workshop.

Possible cause:

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

- Have your motorcycle serviced regularly by a specialist workshop, preferably by an authorised BMW Motorrad Retailer.
- » The operational and road safety of the motorcycle remain intact.
- » The motorcycle's value is maintained as best as possible.

Service-due date has passed



lights up yellow.



is displayed in yellow.

Service overdue! Have service performed by a specialist workshop.

Possible cause:

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

- Have your motorcycle serviced regularly by a specialist workshop, preferably by an authorised BMW Motorrad Retailer.
- » The operational and road safety of the motorcycle remain intact.
- » The motorcycle's value is maintained as best as possible.

OPERATION

04

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62 OPERATION

IGNITION

Keys

 The telltale light for the radio-operated key flashes while the search for the radio-operated key is in progress. The light goes out as soon as the radio-operated key or the emergency key is found. The light goes out briefly if the search times out without the radio-operated key or the emergency key being found.

You receive one radio-operated key and one spare key. If a key is lost or mislaid, consult the notes on the electronic immobiliser (EWS) (► 64).

Ignition, fuel filler cap and anti-theft alarm system all work with the radio-operated key. The seat lock and topcase can be locked and unlocked manually.

 If the range of the radio-operated key is exceeded (e.g. in the topcase) the vehicle cannot be started.

If the radio-operated key remains out of range the ignition is switched off after about 1.5 minutes to protect the battery. Do not store the radio-operated key in the luggage compartment.

In some circumstances, the signal of the radio-operated key cannot be received by the aerial, and the seat can no longer be opened.

It is advisable to keep the radio-operated key on your person (e.g. in a jacket pocket) and to have the spare key with you as an alternative.



Range of the Keyless
Ride radio-operated key

approx. 1 m

Lock the handlebars Requirement

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



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

- Short-press button **1** to disengage the steering lock.

Switching on ignition Requirement

Radio-operated key is within range.



- There are **two** ways of activating the ignition.

Version 1:

- Short-press button **1**.
 - » Side lights and all function circuits are switched on.
 - with daytime riding light^{OE}
 - » Daytime riding light is switched on.◁
 - » Pre-Ride-Check is performed. (▮▮▮ 121)
 - » ABS self-diagnosis is in progress. (▮▮▮ 122)
 - » ASC self-diagnosis is in progress. (▮▮▮ 122)

Version 2:

- Steering lock is engaged; press and hold down button **1**.
 - » The steering lock disengages.
 - » Side lights and all function circuits switched on.
 - with daytime riding light^{OE}
 - » Daytime riding light is switched on.◁
 - » Pre-Ride-Check is performed. (▮▮▮ 121)
 - » ABS self-diagnosis is in progress. (▮▮▮ 122)
 - » ASC self-diagnosis is in progress. (▮▮▮ 122)

Switching off ignition Requirement

Radio-operated key is within range.



- There are **two** ways of deactivating the ignition.

64 OPERATION

Version 1:

- Short-press button 1.
 - » Light is switched off, side light and lighting of the rear storage compartment continue to light up for a short time.
 - » Handlebars (steering lock) are not locked.

Version 2:

- Turn the handlebars all the way to the left.
- Press and hold down button 1.
 - » Light is switched off, side light and lighting of the rear storage compartment continue to light up for a short time.
 - » The steering lock engages.

Electronic immobiliser EWS

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

 A spare key attached to the same ring as the radio-operated key used to start the engine could impair the electronics function, in

which case the enabling signal for starting is not issued. The warning is displayed on the multifunction display with the key symbol.

Always keep the spare key separate from the radio-operated key.

If you lose a radio-operated key, you can have it barred by your authorised BMW Motorrad retailer. If you wish to do this, you will need to bring all other keys for the Scooter with you to the dealership.

The engine cannot be started by a barred radio-operated key, but a radio-operated key that has been barred can subsequently be reactivated.

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

Battery of the radio-operated key is empty or loss of the radio-operated key



- If a key is lost or mislaid, consult the notes on the electronic immobiliser (**EWS**).
- If you happen to lose or mislay the radio-operated key while on a journey, you can start the vehicle with the spare key.
- If the battery of the radio-operated key is empty, the engine can be started by touching the radio-operated key against the battery cover.
- Hold spare key **1** or radio-operated key with empty battery **2** against the battery cover at the location of aerial **3**.

 The spare key or the radio-operated key with the empty battery must be **in contact with** the rear-wheel cover.



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

30 s

- » Pre-Ride-Check is performed.
- Radio-operated key has been recognised.
- Engine can be started.
- Start the engine (➡ 121).

Replacing battery of radio-operated key

If the radio-operated key does not react when you short-press or long-press a button:

- Battery of the radio-operated key is not at full capacity.
- » **KEYLO!** is displayed in the multifunction display.

66 OPERATION

DANGER

Swallowing a battery

Risk of injury or death

- An ignition key contains a button cell as its battery. Batteries or button cells, if swallowed, can cause serious or fatal injury within two hours, for example resulting from internal burns or caustic action.
- Keep ignition keys and batteries out of reach of children.
- If there is any suspicion that a battery or button cell has been swallowed or is inside a part of the body, seek medical assistance immediately.

- Change the battery.

—with Connectivity^{OE}

 Remote key battery weak. Function limited. Change battery.<

- Change the battery.<



- Press button **1**.
» Key bit flips out.
- Push battery cover **2** up.
- Remove battery **3**.
- Dispose of the old battery in accordance with all applicable laws and regulations; do not attempt to dispose of batteries as domestic waste.

ATTENTION

Unsuitable or incorrectly inserted batteries

Component damage

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

	Battery type
For Keyless Ride radio-operated key	
CR 2032	

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

EMERGENCY-OFF SWITCH (KILL SWITCH)



- 1** Emergency-off switch (kill switch)



WARNING

Operation of the kill switch while riding

Risk of fall due to rear wheel locking

- Do not operate the kill switch when riding.

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



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

LIGHTS

Low-beam headlight and sidelights

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

After the ignition is switched off, the side light remains on for a short time.



The side lights place a strain on the battery; leave the ignition switched on for a limited time only.

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

68 OPERATION

—with daytime riding light^{OE}
In daytime the daytime riding light can be switched on as an alternative to the low-beam headlight. (➡ 68)

High-beam headlight and headlight flasher



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

Parking lights

- Switch off the ignition.



- Immediately after switching off the ignition, push button **1** to the left and hold it

in that position until the parking lights come on.

- Switch the ignition on and off again to switch off the parking lights.

DAYTIME RIDING LIGHT

—with daytime riding light^{OE}

Automatic or manual daytime riding light

The daytime riding light is switched on and off either automatically or manually. You can switch the automatic function for the daytime riding light on or off in **SETUP**.

Recommended setting:

—**SETUP A DRL ON** (A DRL: automatic daytime riding light)

You can switch the automatic function for the daytime riding light off temporarily by pressing the button. Pressing the button for the daytime riding light has no effect on the setting in **SETUP**.

—with Connectivity^{OE}

The daytime riding light is switched on and off either automatically or manually. You can switch the automatic function for the daytime riding

light on or off in the Vehicle settings menu.

Recommended setting:

- Auto. daytime light is switched on.

You can switch the automatic function for the daytime riding light off temporarily by pressing the button. Pressing the button for the daytime riding light has no effect on the setting in the Vehicle settings menu.

Automatic daytime riding light



WARNING

The automatic daytime riding light is not a substitute for the rider's personal judgement of the light conditions

Risk of accident

- Switch off the automatic daytime riding light in poor light conditions.

- Start the engine (121).



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



is displayed.

» If the symbol for automatic daytime riding light does not appear, this is because the active setting is **SETUP A DRL OFF**.

- To switch on automatic daytime riding light, proceed as follows:



- Repeatedly short-press MENU rocker button top section **1** until **SETUP ENTER 3** is displayed.
 - Press and hold the top part **1** of the MENU rocker button to start SETUP.
- » **SETUP ASC** is displayed.

70 OPERATION



- Repeatedly short-press MENU rocker button top section **1** until **SETUP A DRL 3** is displayed.
- Press the bottom part **2** of the MENU rocker button briefly to toggle between ON and OFF.
 - » **SETUP A DRL ON** is displayed.
- Press and hold the top part **1** of the MENU rocker button.
 - » **SETUP ENTER** is displayed.



is displayed.

—with Connectivity^{OE}

- Navigate to Settings, Vehicle settings, Lights and switch on the Auto. daytime light function.



shows.<

- If ambient brightness drops below a certain value, the

low-beam headlight is automatically switched on (e.g. in a tunnel). When sufficient ambient brightness is detected, the daytime riding light is switched back on.

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

Automatic daytime riding light is switched on.



- Press button **1** (e.g. when you ride into a tunnel, and the response of the automatic daytime riding light to the change in ambient brightness is delayed).
 - » Automatic daytime riding light is switched off.
 - » The low-beam headlight and the front side light are switched on.
- Press button **1** again.
 - » Automatic daytime riding light is reactivated.

- » The daytime riding light is switched on again once the required ambient brightness is reached.
- » The low-beam headlight and the backlighting of the instrument cluster are switched off.



shows when daytime riding light is active.

Manual daytime riding light Requirement

Automatic for daytime riding light must be switched off.



WARNING

Switching on the daytime riding light in the dark.

Risk of accident

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

- Start the engine (121).



- Repeatedly short-press MENU rocker

button top section **1** until **SETUP ENTER 3** is displayed.

- Press and hold the top part **1** of the MENU rocker button to start **SETUP**.
- » **SETUP ASC** is displayed.



- Repeatedly short-press MENU rocker button top section **1** until **SETUP A DRL 3** is displayed.
- Press the bottom part **2** of the MENU rocker button briefly to toggle between **ON** and **OFF**.
- » **SETUP A DRL OFF** is displayed.
- Press and hold the top part **1** of the MENU rocker button.

—with Connectivity^{OE}

- Navigate to Settings, Vehicle settings, Lights and switch off the Auto. daytime light function.◀

72 OPERATION



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

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

» The low-beam headlight and the front side lights are switched off.

 shows when daytime riding light is active.

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

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

beam headlight and front side light are switched on.

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

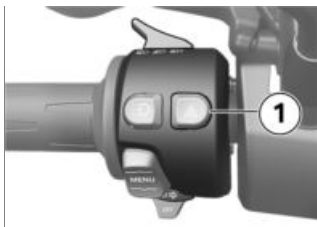
HAZARD WARNING LIGHTS

Operating hazard warning flashers

- Switch on the ignition.

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

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



- Press button **1** to switch on the hazard warning lights system.

» Ignition can be switched off.

- Switch on the ignition and press button **1** again to switch off the hazard warning flashers.

TURN INDICATORS

Operate the turn indicators

- Switch on the ignition.



- Push button **1** to the left to switch on the left turn indicators.
- Push button **1** to the right to switch on the right turn indicators.

- Centre button **1** to cancel the turn indicators.

Operate the turn indicators

—with Connectivity^{OE}

- Switching on ignition (➡ 63).



- Navigate to *Settings*, *Vehicle settings*, *Lights*.
- Switch *Comfort turn indicator* on or off.



- Push button **1** to the left to switch on the left turn indicators.
 - Push button **1** to the right to switch on the right turn indicators.
 - Centre button **1** to cancel the turn indicators.
- » If the comfort turn indicators function is activated, the turn indicators are cancelled automatically when the speed-dependent distance is covered.

74 OPERATION

DISPLAY

Select the reading at the top

- Switch on the ignition.



- Press the top part **1** of the MENU rocker button briefly to select the display in area **3**.

The following values can be displayed:

- Odometer ODO
- Tripmeter 1 TRIP 1
- Tripmeter 2 TRIP 2
- Automatic tripmeter TRIP A is reset automatically 5 hours after the ignition is switched off and the date has changed.
- Call up the settings menu: SETUP ENTER (is only displayed when the Scooter is stationary)

Select on-board computer display

- Switch on the ignition.



- Press the bottom part **2** of the MENU rocker button briefly to select the on-board computer display in area **4**.



If the fuel reserve has been reached, the RANGE display always appears after the ignition is switched on.

The following values can be displayed:

- Range RANGE
- Average consumption CONS 1
- Average consumption CONS 2
- Current consumption CONS C
- Oil level OILLVL
- Outside temperature EXTEMP
- Coolant temperature ENGTMP
- Average speed SPEED Ø
- Battery voltage VOLTGE
- Riding time RDTIME
- Date DATE

Reset the trip distance recorder

- Switch on the ignition.
- Select the tripmeter.

» The tripmeter you want is displayed.



- Press top section **1** of the MENU rocker button and hold it down until tripmeter **3** is reset.

» Trip recorder reading = 0.0

Reset the average values

- Switch on the ignition.
- Press the bottom part of the MENU rocker button repeatedly until the desired average consumption or the average speed is displayed.



- Press the bottom part **2** of the MENU rocker button until

the average value **4** displayed has been reset.

Resetting the riding time

- Switch on the ignition.
- Repeatedly short-press the MENU rocker button at the bottom until the ride time RDTIME is displayed.



- Press and hold down MENU rocker button bottom section **2** until ride time RDTIME **3** is reset.
- » Riding time starts at 00:00:00

SETUP

Selecting SETUP Requirement

The Scooter is stationary.

76 OPERATION

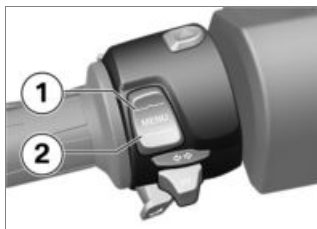


- Repeatedly short-press rocker button MENU top section **1** until **SETUP ENTER 3** is displayed.
- Press and hold the top part **1** of the MENU rocker button to start **SETUP**.
 - » **SETUP ASC** is displayed.
- Press the top part **1** of the MENU rocker button briefly to select the following parameters in the **SETUP**:
 - Switch **ASC** off or on **ASC OFF / ASC ON**.
 - with anti-theft alarm (DWA)^{OE}
 - Automatically activate anti-theft alarm function when the ignition is switched off **DWA ON** or leave the automatic function switched off **DWA OFF**.◀
 - Set the time **CLOCK**.
 - Set the date **DATE**.
 - Adjust the brightness of the backlighting in the instrument cluster **BRIGHT**.

- with daytime riding light^{OE}
- Activate automatic daytime riding light **A DRL ON** or manual daytime riding light **A DRL OFF**.◀
- Set units **UNIT**.
- Reset displays **RESET**.
- Exit **SETUP EXIT**.

Exiting SETUP Requirement

There are four options for exiting **SETUP**.



- Press and hold the top part **1** of the MENU rocker button.
 - » **SETUP ENTER** is displayed.
- Alternatively: Repeatedly short-press rocker button MENU top section **1** until **SETUP EXIT** is displayed.
- Press and hold the bottom part **2** of the MENU rocker button.
 - » **SETUP ENTER** is displayed.
- Alternatively: Switch ignition off and on again.
 - » **SETUP ENTER** is displayed.

- Alternatively: Ride off.

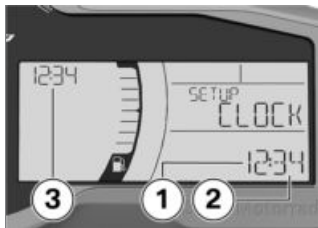
	Speed for operation in SETUP mode
max 10 km/h	

- » SETUP will be quit when the permissible speed for operation is exceeded.
- » ODO is displayed.
- » All settings will be saved whatever method is used to quit SETUP.

Set the clock Requirement

The Scooter is stationary.

- Switch on the ignition.
- Select SETUP (⏏ 75).
- » SETUP CLOCK is displayed.



- Press and hold the bottom part of the MENU rocker button to set the hours.
- » Hours number **1** flashes.
- Press the top part of the MENU rocker button briefly to advance the hours.

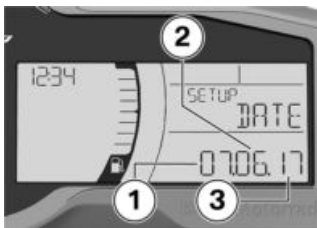
- Press the bottom part of the MENU rocker button briefly to go back an hour.
- Press and hold the bottom part of the MENU rocker button once the desired hour has been set.
- » Minutes number **2** flashes.
- Press the top part of the MENU rocker button briefly to advance the minutes.
- Press the bottom part of the MENU rocker button briefly to go back a minute.
- Press and hold the bottom part of the MENU rocker button once the desired minute has been set.
- » The minutes **2** stop flashing.
- Checking the setting on the time display **3**.
- » This completes the process.
- Press and hold the top part of the MENU rocker button.
- » SETUP ENTER is displayed.

Set the date Requirement

The Scooter is stationary.

- Switch on the ignition.
- Select SETUP (⏏ 75).
- » SETUP DATE is displayed.

78 OPERATION



- Press and hold the bottom part of the MENU rocker button.

» Day **1** flashes.

- Press the top part of the MENU rocker button briefly to advance the day.

- Press the bottom part of the MENU rocker button briefly to go back one day.

- Press the bottom part of the MENU rocker button and hold once the desired day has been set.

» Month **2** flashes.

- Press the top part of the MENU rocker button briefly to advance the month.

- Press the bottom part of the MENU rocker button briefly to go back one month.

- Press the bottom part of the MENU rocker button and hold once the desired month has been set.

» Year **3** flashes.

- Press the top part of the MENU rocker button briefly to advance the year.

- Press the bottom part of the MENU rocker button briefly to go back one year.

- Press the bottom part of the MENU rocker button and hold once the desired year has been set.

» Year **3** no longer flashes.

» This completes the process.

- Press and hold the top part of the MENU rocker button.

» **SETUP ENTER** is displayed.

HEATED GRIPS

—with heated grips^{OE}

Operating the heated handlebar grips

- Start the engine.



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



- Repeatedly press button **1** until the heating stage you want to use is displayed. The grips can be heated to three levels. Stage three is for heating the grips quickly: it is advisable to switch back to stage one or two as soon as the grips are warm. The following can be displayed:



high heating power



medium heating power



low heating power

—with Connectivity^{OE}



- Repeatedly press button **1** until the heating stage you want to use is displayed. The grips can be heated to three levels. Stage three is for heating the grips quickly: it is advisable to switch back to stage one or two as soon as the grips are warm. The following can be displayed:



high heating power



medium heating power



low heating power

SEAT HEATING

—with seat heating^{OE}

Operate the rider's seat heating

- Start the engine.



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

80 OPERATION



- Repeatedly press button **1** until the heating stage you want to use is displayed. The rider's seat can be heated in three stages. Stage three is intended to quickly heat up the seat, subsequently switch to the second or first stage. The following can be displayed:



high heating power



medium heating power



low heating power

—with Connectivity^{OE}



- Repeatedly press button **1** until the heating stage you want to use is displayed. The rider's seat can be heated in three stages. Stage three is intended to quickly heat up the seat, subsequently switch to the second or first stage. The following can be displayed:



high heating power



medium heating power



low heating power

SEAT

Operating seat

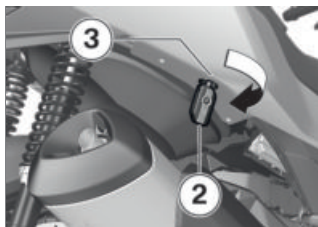
- Switch on the ignition.



- Press button **1**.
» Seat is unlocked.



- Lift seat **4** at the rear and swing it up.



- The seat can also be unlocked without the ignition being switched on. To do so, insert extended radio-operated key **2** into lock **3** at the right-hand side trim panel and turn the key clockwise.
» Seat is unlocked.



- To close, push the motorcycle seat **4** into the lock at the rear.

STORAGE COMPARTMENTS

Using the front storage compartments

- Switch on the ignition.

82 OPERATION



- To open a storage compartment, press the corresponding button **1**.
- To close a storage compartment, push the corresponding flap into the lock.
- After the ignition has been switched off and a waiting period has expired, both storage compartments are locked.



After-running period
for opening the storage
compartments

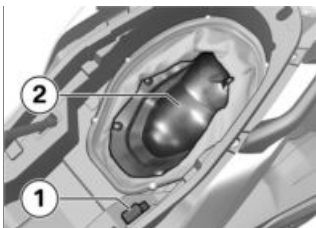
10 s

Operating rear storage compartment (BMW flexcase)

- Operate the seat (→ 80).



The stowage compartment light switches on when switching on the ignition. After switching off the ignition the stowage compartment light remains illuminated briefly.



- Pull release lever **1** forward to increase the size of the storage compartment, for example to accommodate a helmet.
 - » Base **2** moves lower.
 - » It is not possible to start the vehicle with the base lowered.

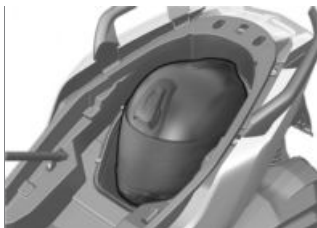


When the ignition is switched on, the storage compartment symbol is displayed.

» - with Connectivity



When the ignition is switched on, Engine start not poss. BMW flexcase open. Close BMW flexcase. appears on the display.



flexcase open. Close BMW flexcase. disappears from the display.

- Close the seat.

» The journey can now be continued.

- The BMW flexcase can accommodate one integral helmet.
- Close the seat.



- To resume your journey, open the seat.
- Empty the storage compartment.
- Pull base **2** up by lever **3** until it latches.



When the ignition is switched on, the storage compartment symbol goes out.

» - with Connectivity



When the ignition is switched on, Engine start not poss. BMW

TFT DISPLAY

05

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GENERAL NOTES

Warnings



WARNING

Operation of a smartphone while riding the vehicle

Risk of accident

- Always comply with the road traffic regulations in force where you are riding.
- Do not use a smartphone while riding. This applies with the exception of applications without operation, such as hands-free telephony.



WARNING

Distraction from the road and loss of control

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

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

Connectivity functions

Connectivity functions include media, telephony and navigation. Connectivity functions can be used if the TFT display is connected to a mobile end device and helmet (► 95). For more information on the Connectivity functions go to **bmw-motorrad.com**



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



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

BMW Motorrad Connected App

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

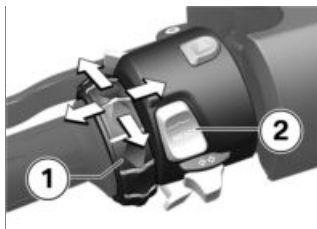
 On some mobile devices, e.g. those with iOS operating systems, the BMW Motorrad Connected App must be opened before use.

Actuality

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

PRINCIPLE

Controls



All display content is controlled by means of Multi-Controller **1** and MENU rocker button **2**. Depending on the context, the following functions are possible.

Functions of the Multi-Controller

Turn the Multi-Controller up:

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

Turn the Multi-Controller down:

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

Tilt the Multi-Controller to the left:

- Activate the function in accordance with the operation feedback.
- Activate the function to the left or back.
- Go back to the Menu view after making the settings.
- In Menu view: Change up one level.
- In the My vehicle menu: Advance one menu screen.

Tilt the Multi-Controller to the right:

- Activate the function in accordance with the operation feedback.
- Confirm selection.
- Confirm settings.
- Advance a menu step.
- Scroll to the right in lists.

88 TFT DISPLAY

–In the My vehicle menu: Advance one menu screen.

MENU rocker button functions

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

Short-press the top section of the MENU button:

- In Menu view: Change up one level.
- In Pure view: Change the display for rider info. status line.

Long-press the top section of the MENU button:

- In Menu view: Open the Pure view.

Short-press the bottom section of the MENU button:

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

Long-press the bottom section of the MENU button:

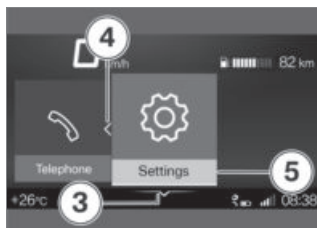
- Change back to the last menu after a previous menu change effected by long-pressing

the top section of the MENU rocker button.

Operating pointers in the main menu



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



Meaning of the operating pointers:

- Operating pointer 1: Left end reached.
- Operating pointer 2: You can scroll to the right.
- Operating pointer 3: You can scroll down.
- Operating pointer 4: You can scroll to the left.

- Operating pointer **5**: Right end reached.

Operating pointers in submenus

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



Meaning of the operating pointers:

- Operating pointer **1**: The current display is in a hierarchical menu. One symbol represents one submenu level. Two symbols represent two or more submenu levels. The colour of the symbol changes, depending on whether you can return to a higher level.
- Operating pointer **2**: One more submenu level can be accessed.
- Operating pointer **3**: There are more entries than can be displayed.

Display Pure view

- Press and hold the top part of the MENU rocker button.

Switching functions on and off



Some menu items have a check box in front of them. The check box shows whether the function is on or off. Action symbols after the menu items indicate what action you can trigger by short-tilting the Multi-Controller to the right.

Examples for switching on and off:

- Symbol **1** shows that the function is switched off.
- Symbol **2** shows that the function is switched on.
- Symbol **3** shows that the function can be switched on.
- Symbol **4** shows that the function can be switched off.

90 TFT DISPLAY

Calling up menu



- Display Pure view (➡ 89).
- Short-press the bottom section of button **2**.

The following menus can be called up:

-My vehicle
-Navigation
-Media
-Telephone
-Settings

- Repeatedly short-push Multi-Controller **1** to the right until the menu item you want is highlighted.
- Short-press the bottom section of button **2**.

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

Move the cursor in lists



- Calling up menu (➡ 90).
- To move the cursor down in lists, turn the multi-controller **1** down until the desired entry is highlighted.
- To move the cursor up in lists, turn the multi-controller **1** up until the desired entry is highlighted.

Confirm selection



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

Call up the last menu used

- In Pure view: press and hold the MENU rocker button.
- » The last menu used is called up. The last entry highlighted is selected.

Changing display for rider info. status line

Requirement

The vehicle is at a standstill.
The Pure view is displayed.

- Switching on ignition (III 63).
- » All the information necessary for riding on public roads is presented in the TFT display by the on-board computer. The information can be displayed in the top status line.
- Select the content of the driver info. status line (III 91).



- Long-press button 1 to obtain the Pure view.
- Repeatedly short-press button 1 to select the value in the top status line 2.

The following values can be displayed:

– Total distance Total

 Current distance 1

 Current distance 2

 Consumption 1 (Average)

 Consumption 2 (Average)

 Riding time 1

 Riding time 2

 Break 1

 Break 2

 Speed 1 (Average)

 Speed 2 (Average)

 Range

 Fuel tank level

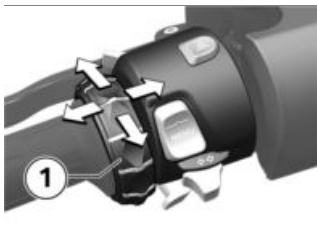
Select the content of the driver info. status line

- Navigate to Settings, Display, Status line content.

92 TFT DISPLAY

- Switch on the desired displays.
- » You can switch between the selected displays in the rider info. status line. If no displays are selected, only the range will be displayed.

Adjust settings



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

Switch Speed Limit Info on or off

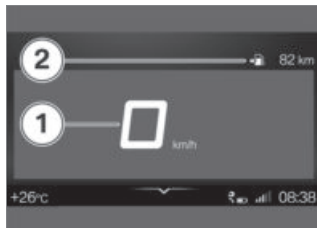
Requirement

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

- Speed Limit Info displays the maximum speed currently permitted.
- Navigate to Settings, Display.
- Switch Speed Limit Info on or off.

PURE AND URBAN VIEWS

Pure view



In the Pure view, all important information for riding on public roads is provided.

The speed indicator **1** displays the current driving speed. Press the top of the rocker button MENU briefly to display

the range instead of the fuel gauge **2**.

Range readout **2** indicates how far you can ride with the fuel remaining in the tank. This distance is calculated on the basis of average consumption and the quantity of fuel on board.

- When the vehicle is propped on its side stand the slight angle of inclination means that the sensor cannot register the fuel level correctly. This is the reason why the range is recalculated only when the side stand is in the retracted position.
- The range is shown together with a warning once the fuel reserve has been reached.
- After a refuelling stop, range is recalculated if the amount of fuel in the tank is greater than the reserve quantity.
- The calculated range is only an approximate figure.

Urban view



The Urban view also displays the engine speed with a numerical display **1** and a bar display **2** as additional information.

This can be called up via the main menu.

GENERAL SETTINGS

Adjust the volume

- Connect rider's and passenger's helmet (🔊 97).
- Increase volume: turn the multi-controller upwards.
- Decrease volume: turn the multi-controller downwards.
- Mute: turn the multi-controller all the way down.

Setting the date

- Switching on ignition (🔊 63).
- Call up the Settings, System settings, Date and time, Set date menu.
- Adjust Day, Month and Year.
- Confirm setting.

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

» Existing Bluetooth connections are not deleted.

BLUETOOTH

Short-range wireless technology

The Bluetooth function might not be available in certain countries.

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

Although Bluetooth is designed to establish and sustain robust connections over short distances, as with every other wireless technology disruptions are possible. Interference can affect connections or connections can sometimes fail. Particularly when multiple devices operate in a Bluetooth network, with wireless technology of this

nature it is not possible to ensure fault-free communications in every situation.

Possible sources of interference:

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

Bluetooth coupling

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



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

During the Bluetooth pairing process, the TFT display searches for other Bluetooth-compatible devices within its reception range. The conditions that have to be

satisfied before the audio system can recognise another device are as follows:

- The device's Bluetooth function must be active
- The device must be "visible" to others
- The device must support the A2DP profile
- Other Bluetooth-compatible devices must be OFF (e.g. mobile phones and navigation systems).

Please consult the operating instructions for your communication system.

Perform Bluetooth pairing

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

Connect mobile end device

- Perform Bluetooth pairing (→ 96).
- Activate the mobile end device's Bluetooth function (see mobile end device's operating instructions).
- Select **Mobile device** and confirm.
- Select **PAIR NEW MOBILE DEVICE** and confirm.

Mobile end devices are being searched for.



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

Mobile end devices found are displayed.

- Select and confirm mobile end device.
 - Follow the instructions on the mobile end device.
 - Confirm that the code matches.
- » The connection is established and the connection status updated.
- » If the connection is not established, consult the troubleshooting chart in the section entitled "Technical data". (➡ 190)
- » Depending on the mobile end device, telephone data

is transferred to the vehicle automatically.

- » Telephone data (104)
- » If the telephone book is not displayed, consult the troubleshooting chart in the section entitled "Technical data". (191)
- » If the Bluetooth connection is not working as expected, consult the troubleshooting chart in the section entitled "Technical data". (191)

Connect rider's and passenger's helmet

- Perform Bluetooth pairing (96).
- Select Rider's helmet or Passenger helm. and confirm.
- Make the helmet's communication system visible.
- Select PAIR NEW RIDER'S HELMET or PAIR NEW PASSENGER HELMET and confirm.

Helmets are searched for.



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

Helmets found are displayed.

- Select and confirm helmet.

» The connection is established and the connection status updated.

- » If the connection is not established, consult the troubleshooting chart in the section entitled "Technical data". (190)
- » If the Bluetooth connection is not working as expected, consult the troubleshooting chart in the section entitled "Technical data". (191)

Deleting connections

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

98 TFT DISPLAY

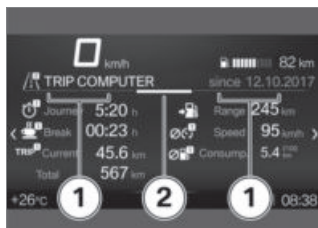
MY VEHICLE

START SCREEN



- 1 Check Control display
Mode of presentation
(➡ 41)
- 2 Coolant temperature
(➡ 52)
- 3 Range (➡ 92)
- 4 Service display (➡ 58)
- 5 Vehicle mileage/km
- 6 On-board voltage
(➡ 164)
- 7 Oil-level check (➡ 51)

Operating pointers



- Operating pointer **1**: Indicators showing how far you can scroll to the left or right.
- Operating pointer **2**: Indicator showing the position of the current menu screen.

Scrolling through menu screens



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

- To scroll to the left, briefly press Multi-Controller **1** to the left.

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

- MY VEHICLE**
- Check Control messages (if any)
- ON-BOARD COMPUTER**
- TRIP COMPUTER**
- SERVICE REQUIREMENTS**
- For more information on tyre pressure and Check Control messages, see the "Displays" section.

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

On-board computer and trip computer

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

Calling up on-board computer

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

100 TFT DISPLAY

Reset the on-board computer

- Call up the on-board computer (▣ 99).
- Press down the MENU rocker button.
- Select Reset all values or Reset individual values and confirm.

The following values can be reset:

- Break
- Journey
- Current (TRIP 1)
- Speed
- Consump.

Call up the trip computer

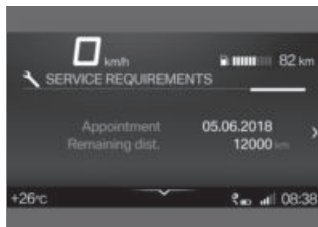
- Call up the on-board computer (▣ 99).
- Scroll to the right until the TRIP COMPUTER menu screen is displayed.

Reset the trip computer

- Call up the trip computer (▣ 100).
 - Press down the MENU rocker button.
 - Select Autom. reset or Reset all values and confirm.
- » If Autom. reset is selected, the trip computer is automatically reset when a minimum of 6 hours have passed and

the date has changed since the ignition was switched off.

Service requirements



When the next service is due within less than a month or within 1000 km, a white Check Control message is displayed.

NAVIGATION

Warnings



WARNING

Operation of a smartphone while riding the vehicle

Risk of accident

- Always comply with the road traffic regulations in force where you are riding.
- Do not use a smartphone while riding. This applies with the exception of applications without operation, such as hands-free telephone.



WARNING

Distraction from the road and loss of control

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

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

Precondition

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

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



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

Entering destination address

- Connect mobile end device (➡ 96).
- Call up the BMW Motorrad Connected App and start the route guidance.
- Call up the **Navigation** menu in the TFT display.
 - » Active route guidance is displayed.
 - » If the active route guidance is not displayed, consult the troubleshooting chart in the section entitled "Technical data". (➡ 191)

Selecting destination from recent destinations

- Call up the **Navigation**, **Recent destinations** menu.

102 TFT DISPLAY

- Select and confirm destination.
- Select Start route guidance.

Selecting destination from favourites

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

Entering special destinations

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

The following locations can be selected:

- At current location
- At destination
- Along the route
- Select where the special destinations should be looked for. e.g. the following special destination can be selected:
 - Filling station

- Select and confirm the special destination.
- Select Start route guidance and confirm.

Setting route criteria

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

The number of avoidances activated is displayed in brackets.

Ending route guidance

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

Switching spoken instructions on or off

- Connect rider's and passenger's helmet (📞 97).
- The navigation can be read out by a computer voice. For this purpose, Spoken instruction must be switched on.
- Call up the Navigation, Active route guidance menu.

- Switch Spoken instruction on or off.

Repeating last spoken instruction

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

MEDIA

Precondition

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

Control music playback



- Call up the Media menu.

 BMW Motorrad recommends setting the volume on the mobile end device for media and calls to maximum before setting off.

- Adjust the volume (▮▮▮ 93).
- Next track: briefly tilt Multi-Controller **1** to the right.

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

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

» The following functions can be used in the context menu:

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

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

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

104 TFT DISPLAY

TELEPHONE

Precondition

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

Telephone calls



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

Muting

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

Phone calls with multiple participants

A second call can be accepted while you are on a call. The first phone call is put on hold. The number of active telephone calls is shown in the

Telephone menu. It is possible to switch between two phone calls.

Telephone data

Depending on the mobile end device, telephone data may be transmitted to the vehicle automatically once the Bluetooth connection has been established (► 95).

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

Call list: list of calls with the mobile end device

Favourites: list of favourites saved on the mobile end device

DISPLAY SOFTWARE VERSION

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

DISPLAY LICENCE INFORMATION

- Call up the Settings, Information, Licences menu.

ANTI-THEFT ALARM

06

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108 ANTI-THEFT ALARM

OVERVIEW

—with anti-theft alarm (DWA)^{OE}

General information about the anti-theft alarm (DWA)

Any attempt to move the vehicle, change its position, disconnect the vehicle battery or unauthorised starts will activate the alarm. The sensitivity of the system is parameterised so that slight vibrations will not trigger the alarm. Once the system has been activated, any attempt to tamper with the vehicle is indicated acoustically by the siren and visually by all four turn indicators flashing in unison.

You can change some of your DWA alarm system's parameters to suit your personal preferences.

Conserving power in the vehicle's starter battery

In order to conserve the power of the starter battery and ensure that the vehicle will start, the DWA anti-theft alarm automatically switches off the alarm function a few days after being activated. In most cases, however, the system will remain active for at least 10 days.

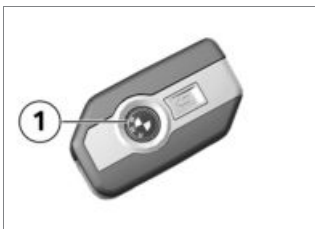
Radio interference

Radio systems or devices transmitting on the same frequency as the remote control of the DWA anti-theft alarm can interfere with operation of the system. If problems of this nature occur, point the remote control toward the vehicle from another direction.

ACTIVATION

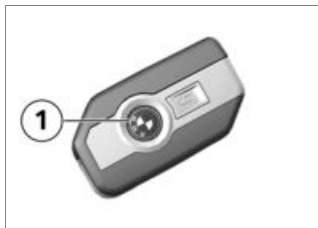
—with anti-theft alarm (DWA)^{OE}

Activation



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

Deactivating the motion sensor



- Press button **1** on the radio-operated key again during the activation phase.
- » Turn indicators flash three times.
- » Confirmation tone sounds three times (if programmed).
- » Motion sensor has been deactivated.

Adjusting DWA Requirement

The Scooter is stationary.

- Switch on the ignition.
- Select SETUP (🔑➡ 75).
- Repeatedly short-press the top section of the MENU rocker button until SETUP DWA is displayed.



- Short-press MENU rocker button bottom section **2** to toggle between DWA ON **3** and DWA OFF.

The following settings are available:

- DWA ON: The DWA anti-theft alarm is active and will be armed automatically when the ignition is switched off.
- DWA OFF: The DWA anti-theft alarm is deactivated.

- Long-press MENU rocker button top section **1** to exit SETUP.

» SETUP ENTER is displayed.

-with Connectivity^{OE}

- Switch on the ignition.
- Navigate to Settings, Vehicle settings, Alarm system.

» The following settings are available:

- Adapting Warning signal
- Switch Tilt sensor on or off

110 ANTI-THEFT ALARM

- Switch Arming tone on or off
- Switch Arm automatically on or off
- » Programming options
( 111)<

ALARM FUNCTION

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

Alarm signal

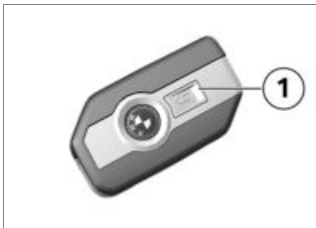
A DWA alarm can be triggered by:

- Motion sensor
- an attempt to use an unauthorised vehicle key to switch on the ignition
- Disconnection of the DWA anti-theft alarm from the motorcycle's battery (DWA internal battery in the anti-theft alarm provides power - acoustic alarm only, the turn indicators do not flash)

 When the radio-operated key is within range, an alarm triggered by the tilt sensor is suppressed.

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

An alarm lasts for approximately 26 seconds. While an alarm is in progress an alarm tone sounds and the turn indicators flash. The type of acoustic alarm tone can be set by an authorised BMW Motorrad retailer.



You can cancel an alarm at any time by pressing button **1** on the radio-operated key; this does not deactivate the alarm system.

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

Light signals issued by the DWA LED:

- Flashes 1x: Motion sensor 1
- Flashes 2x: Motion sensor 2
- Flashes 3x: Ignition switched on with unauthorised vehicle key
- Flashes 4x: Disconnection of the anti-theft alarm from the vehicle's battery
- Flashes 5x: Motion sensor 3

DEACTIVATION

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

Deactivating the alarm function

- Switch on the ignition using an authorised ignition key.



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

 If the alarm function is deactivated by the radio-operated key and the ignition is not subsequently switched on, the alarm function is automatically reactivated after approx.

30 seconds if Arm automatically is switched on.

- » Turn indicators flash once.
- » Alarm tone sounds once (if programmed).
- » Alarm function is deactivated.

PROGRAMMING

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

Programming options

The alarm system can be adapted to your particular needs in the following respects by your authorised BMW Motorrad Retailer:

- Confirmation alarm tone after having activated/deactivated the DWA in addition to flashing turn indicators.
- Rising and falling or intermittent alarm tone.

- with Connectivity^{OE}

The DWA can be adjusted in the Settings, Vehicle settings, Alarm system menu.

Default settings

The anti-theft alarm ships with the following default settings:

- Confirmation alarm tone after having activated/deactivated the DWA: no.
- Alarm tone: intermittent.

ADJUSTMENT

07

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114 ADJUSTMENT

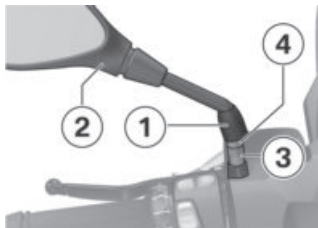
MIRRORS

Adjusting mirrors



- Pivot the mirror to the correct position by pressing gently at the edge.

Adjusting mirror arm



- Push rubber cap **1** up.
- If necessary, slacken lock nut **4** (left-hand thread), adjust mirror **2** and secure with lock nut **4**, while counter-holding adapter **3**.



Left mirror (lock nut) to adapter

M10

22 Nm (Left-hand thread)

- Push rubber cap **1** down.

HEADLIGHT

Headlight adjustment for right-hand or left-hand traffic

This vehicle has a symmetric-beam low-beam headlight. When riding in countries which drive on the other side of the road to that of the Scooter's country of registration, no further measures are required.

Headlight beam throw and spring preload

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

Consult a specialist workshop, preferably an authorised BMW Motorrad retailer, if you are unsure whether the headlight beam-throw setting is correct.

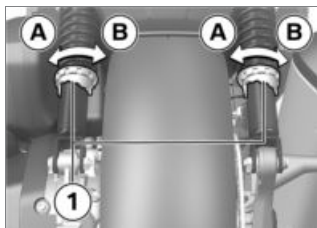
SPRING PRELOAD

Adjustment

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

Adjusting spring preload for rear wheel

- Place the Scooter on its stand on firm, even ground.



- To increase the spring preload, rotate the adjustment rings **1** using the toolkit in the direction of arrow **A**.
- To reduce the spring preload, rotate the adjustment rings **1** using the toolkit in the direction of arrow **B**.



Basic setting of the rear spring preload

Level 1 (filled up, with driver's weight 85 kg)

Level 1 (One-up without luggage)

Level 3 (One-up with luggage)

Level 5 (Two-up with luggage)

- Make sure that the same values are set on both spring struts.

RIDING

08

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SAFETY INFORMATION

Rider's equipment

Do not ride without the correct clothing:

- Helmet
- Suit
- Gloves
- Boots

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



WARNING

Loose textiles, items of luggage or straps snagged by open rotating parts of the vehicle (wheels, drive shaft)

Risk of accident

- Make sure that loosely worn or carried textiles cannot be snagged by openly rotating parts of the vehicle.
- Keep all items of luggage and straps well clear of openly rotating parts of the vehicle.

Load



WARNING

Handling adversely affected by overloading and imbalanced loads

Risk of falling

- Do not exceed the permissible gross weight and be sure to comply with the instructions on loading.

- Adjust the setting of the spring preload to the total weight.
- Note the maximum permissible payload of the luggage carrier.



Payload of luggage carrier

max 9 kg

- Note the maximum permissible payload of the topcase.



Payload of topcase

max 5 kg

Speed

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

- Setting the spring system
- Imbalanced load
- Loose clothing
- Insufficient tyre pressure
- Poor tyre tread

Risk of poisoning

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



WARNING

Exhaust gases adversely affecting health

Risk of asphyxiation

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



WARNING

Inhalation of harmful vapours

Health hazard

- Do not inhale vapours from operating fluid and plastics.
- Use the vehicle only out-doors.

Risk of burning



CAUTION

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

Risk of burn injury

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



WARNING

Opening radiator cap

Risk of burning

- Do not open the radiator cap when the system is hot.
- Check and, if necessary, top up the coolant in the expansion tank only.

Catalytic converter

If misfiring causes unburned fuel to enter the catalytic converter, there is a danger of overheating and damage. The following guidelines must be observed:

- Do not run the fuel tank dry.
- Do not operate the engine over a longer period of time with the speed limiter activated.

120 RIDING

- Stop the engine immediately if it misfires.
- Use only unleaded fuel.
- Comply with all specified maintenance intervals.



ATTENTION

Unburned fuel in catalytic converter

Damage to catalytic converter

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

Risk of overheating



ATTENTION

Engine running for prolonged period with vehicle at standstill

Overheating due to insufficient cooling; in extreme cases vehicle fire

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

Tampering



ATTENTION

Tampering with the Scooter (e.g. engine control unit, throttle valves, clutch)

Damage to the affected parts, failure of safety-relevant functions. Damage due to tampering is not covered by the warranty.

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

COMPLY WITH CHECKLIST

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

Requirement

Always before riding off:

- Check operation of the brake system.
- Check operation of the lights and signalling equipment.
- Checking tyre tread depth (▮▮▮▮ 149).
- Checking tyre pressure (▮▮▮▮ 148).
- Check that topcase and luggage are securely fastened.

Requirement

Every 3rd refuelling stop:

- Adjusting spring preload for rear wheel (▮▮▮ 115).
- Check the engine oil level (▮▮▮ 142).
- Checking brake pad thickness, front brakes (▮▮▮ 143).
- Checking brake pad thickness, rear brakes (▮▮▮ 144).
- Check the brake-fluid level, front and rear wheel brakes (▮▮▮ 146).
- Check the coolant level (▮▮▮ 147).

STARTING

Starting engine

- Switch on the ignition.
 - » Pre-Ride-Check is performed. (▮▮▮ 121)
 - » ABS self-diagnosis is in progress. (▮▮▮ 122)
 - » ASC self-diagnosis is in progress. (▮▮▮ 122)
- Apply the brake.

 The vehicle cannot be started while the side stand is extended. Extending the side stand while the engine is running kills the engine.



- Press starter button **1**.
 - » The engine starts.
 - » Consult the troubleshooting chart below if the engine refuses to start. (▮▮▮ 190)

Pre-Ride-Check

The instrument cluster runs a test of the instrument dials and the warning and indicator lights when the ignition is switched on: this is the so-called "Pre-Ride-Check". The test is aborted if you start the engine before it completes.

Phase 1

The needle of the speed indicator is moved to the end stop. The warning and indicator lights are switched on.

Phase 2

The needle of the speed indicator is returned to the starting position. The activated warning and indicator lights are switched off.

122 RIDING

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



WARNING

Faulty warning lights

No indication of malfunctions

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

ABS self-diagnosis

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

Phase 1

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



flashes.

Phase 2

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



flashes.

ABS self-diagnosis completed

- » The ABS indicator and warning light goes out.

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

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

ASC self-diagnosis

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

Phase 1

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



slow-flashes.

Phase 2

- » Drive off test of the system components with diagnostic capability.



slow-flashes.

ASC self-diagnosis completed

- » The ASC symbol no longer shows.
- Check all the warning and indicator lights.



ASC self-diagnosis not completed

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

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

- You can continue to ride.
Bear in mind that the ASC is not available.
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad Retailer.
- » If the ASC is making adjustments where not required,

too often or too early, the troubleshooting chart can help further. (➡ 192)

RIDING

At engine speeds below approx. 1500 rpm, the centrifugal clutch remains open; the Scooter is in idle. If the engine speed is increased, the clutch closes and the Scooter drives off.

In the approx. 50...approx. 120 km/h speed range, with the throttle valve fully open engine rpm increases slightly to accelerate the vehicle in the maximum engine-torque band. The change in speed is achieved by the CVT. Consequently, engine noise changes only slightly within this speed range.

Speeds higher than approx. 120 km/h are achieved by an increase in engine rpm.

RUNNING IN

Engine

- Up to the running-in check, ride in frequently changing load ranges.
- Try to do most of your riding during this initial period on twisting, fairly hilly roads,

124 RIDING

avoiding high-speed main roads and highways if possible.

- Comply with the running-in speeds.



Running-in speed

max 7000 min⁻¹ (on the first 1000 km)

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



Mileage until the running-in check

500...1200 km

Brake pads

New brake pads have to be run in before they can achieve their optimum friction levels. The reduced braking effect can be compensated for by greater pressure on the brake lever.



WARNING

New brake pads

Longer stopping distance, risk of accident

- Apply the brakes in good time.

Tyres

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



WARNING

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

Risk of accident

- Ride carefully and avoid extremely sharp inclines.

BRAKES

How can stopping distance be minimised?

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

To optimise stopping distance, apply the front brakes rapidly and keep on increasing the

force you apply to the brake lever. This makes the best possible use of the dynamic increase in load at the front wheel. In the "emergency braking situations" that are trained so frequently, braking force is applied as rapidly as possible and with the rider's full force applied to the brake levers; under these circumstances the dynamic shift in load distribution cannot keep pace with the increase in deceleration and the tyres cannot transmit the full braking force to the surface of the road. Under these circumstances, the front wheel would lock up.

BMW Motorrad ABS prevents the front wheel from locking up.

Emergency braking

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

If you brake until your speed is less than 15 km/h, the hazard warning lights start to flash as well. The hazard warning lights switch off automatically as soon as you start to acceler-

ate and vehicle speed reaches 20 km/h.

Descending mountain passes



WARNING

Braking mostly with the rear brake on mountain descents

Brake fade, destruction of the brakes due to overheating

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

Wet and dirty brakes

Wetness and dirt on the brake discs and the brake pads diminish braking efficiency. Delayed braking action or poor braking efficiency must be reckoned with in the following situations:

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



WARNING

Wetness and dirt result in diminished braking efficiency

Risk of accident

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



ATTENTION

Additional weight placing strain on the side stand

Risk of damage to parts if vehicle topples

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

- If the camber of the roadway permits, turn the handlebars all the way to the left.

Centre stand

- Switch off the engine.

PARKING YOUR SCOOTER

Side stand

- Switch off the engine.



ATTENTION

Poor ground underneath the stand

Risk of damage to parts if vehicle topples

- Always check that the ground under the stand is level and firm.
- Extend the side stand and prop the Scooter on the stand.



ATTENTION

Poor ground underneath the stand

Risk of damage to parts if vehicle topples

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



ATTENTION

Centre stand retracts due to severe movements

Risk of damage to parts if vehicle topples

- Do not lean or sit on the vehicle with the centre stand extended.

- Extend the centre stand and lift the Scooter on to the stand.

REFUELLING

Fuel grade

Requirement

For optimum fuel consumption, fuel should be sulphur-free or as low-sulphur as possible.



ATTENTION

Engine operation with leaded fuel

Damage to catalytic converter

- Do not attempt to run the vehicle on leaded fuel or fuel with metallic additives (e.g. manganese or iron).

- Observe the maximum ethanol content of the fuel.



Fuel additives clean the fuel injection system and the combustion zone. It is advisable to use fuel additives when the engine is operated with low-grade fuel or if the vehicle is to be out of use for a lengthy period of time. More information is available from your authorised BMW Motorrad retailer.



Recommended fuel grade

Premium unleaded (maximum 15 % ethanol, E15)
95 ROZ/RON
min 90 AKI



Regular unleaded (maximum 15 % ethanol, E15)
91 ROZ/RON
min 87 AKI



» Look for these symbols on the fuel filler cap and on the fuel pump:



Refuelling Requirement

The steering lock is disengaged.



WARNING

Fuel is highly flammable

Risk of fire and explosion

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



WARNING

Escape of fuel due to heat-induced expansion if fuel tank is overfilled

Risk of falling

- Do not overfill the fuel tank.



ATTENTION

Wetting of plastic surfaces by fuel

Damage to the surfaces (surfaces become unsightly or dull)

- Clean plastic surfaces immediately after contact with fuel.

- Make sure the ground is level and firm and place the Scooter on its centre stand.
- Switching off ignition (➡ 63).



The fuel filler cap can be opened within the defined waiting time after the ignition has been switched off, without the radio-operated key being within range.



Waiting time for opening the fuel filler cap

2 min

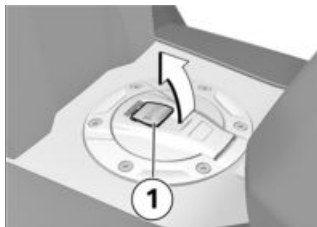
- » There are **two variant ways** of opening the fuel filler cap:

- Within the waiting time.
- After the waiting time has expired.

Variant 1

Requirement

Within the waiting time



- Slowly pull tab **1** on the fuel filler cap up.
- » Fuel filler cap unlocks.
- Fully open the fuel filler cap.

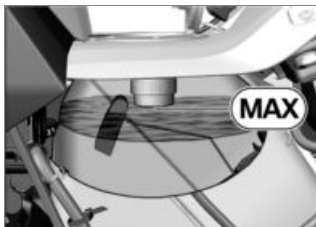
Version 2

Requirement

After the waiting time has expired

- Bring the radio-operated key into range.
- Slowly pull the tab **1** upwards and then release again.
- » The telltale light for the radio-operated key flashes while the search for the radio-operated key is in progress.
- Slowly pull tab **1** on the fuel filler cap up again.
- » Fuel filler cap unlocks.

- Fully open the fuel filler cap.



- Refuel with fuel of the grade stated above; do not fill the tank past the bottom edge of the filler neck.

 When refuelling after running on reserve, make sure that you top up the tank to a level above reserve, so that the new level is detected and the fuel reserve indicator light is switched off.

 The "usable fuel capacity" specified in the technical data is the quantity that the fuel tank could hold if refilled after it had been run dry and the engine had cut out due to a lack of fuel.



Usable fuel capacity

approx. 12.8 l



Reserve volume

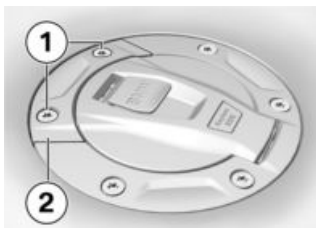
approx. 3 l

- Pull tab on the fuel filler cap up.
- Push fuel filler cap down firmly.
- » The fuel filler cap engages with an audible click.
- » The fuel filler cap locks automatically when the waiting time expires.
- » The engaged fuel filler cap locks immediately when you secure the steering lock or switch on the ignition.

Opening fuel filler cap emergency release

Fuel filler cap cannot be opened.

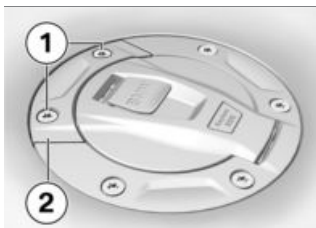
- Have the fault rectified as quickly as possible by a specialist workshop, preferably an authorised BMW Motorrad retailer.



- Remove screws **1**.
- Remove emergency release **2**.
» Fuel filler cap unlocks.
- Fully open the fuel filler cap.
- Refuelling (➡ 127).
- Close the fuel filler cap emergency release (➡ 130).

Closing fuel filler cap emergency release Requirement

Fuel filler cap is in closed position.



- Hold emergency release **2** in position.
- Install screws **1**.

SECURE THE VEHICLE FOR TRANSPORTATION

- Make sure that all components that might come into contact with straps used to secure the vehicle are adequately protected against scratching. Use adhesive tape or soft cloths, for example, for this purpose.



ATTENTION

Vehicle toppling sideways

Risk of damage to parts if vehicle topples

- Secure the vehicle, preferably with the assistance of a second person, so that it cannot topple sideways.
- Push the vehicle on to the transportation flat and hold it in position: do not place it on the side stand or centre stand.

**ATTENTION****Trapping of components**

Component damage

- Do not trap components such as brake lines or cable legs.
- At the front, loop a strap round the fork bridge on each side, cross the straps and tighten them down.
- Make sure that no pressure is applied to the brake lines.
- Protect the front-wheel cover with soft cloths.



- At the rear, loop tensioning straps round the rear grab

handles and tighten them down.

- Tighten all the straps uniformly; the vehicle's suspension should be compressed as tightly as possible front and rear.

ENGINEERING DETAILS

09

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GENERAL NOTES

To find out more about engineering, go to:

bmw-motorrad.com/technik

ANTILOCK BRAKE SYSTEM (ABS)

How does ABS work?

The amount of braking force that can be transferred to the road depends on factors that include the coefficient of friction of the road surface. Loose stones, ice and snow or a wet road all have much lower coefficients of friction than a clean, dry asphalt surface. The lower the coefficient of friction, the longer the braking distance. If the rider increases brake pressure to the extent that brake force exceeds the maximum transferable limit, the wheels start to lock and the Scooter loses its riding stability. A fall is imminent. Before this situation can occur, ABS intervenes and adapts brake pressure to the maximum transferable brake force, so the wheels continue to turn and riding stability is maintained irrespective of the condition of the road surface.

What are the effects of surface irregularities?

Humps and surface irregularities can cause the wheels to lose contact temporarily with the road surface; if this happens the braking force that can be transmitted to the road can drop to zero. If the brakes are applied under these circumstances the ABS reduces braking force to ensure that riding stability is maintained when the wheels regain road contact. At this instant the BMW Motorrad ABS assumes an extremely low coefficient of friction (gravel, ice, snow), so that the wheels will continue to rotate under all imaginable circumstances, because this is the precondition for ensuring riding stability. As soon as it registers the actual circumstances, the system reacts instantly and adjusts braking force accordingly to achieve optimum braking.

Rear wheel lift

Where there is a high level of adhesion between the tyres and road, the front wheel is only blocked very late or not at all even when the brakes are applied forcefully. Accordingly, the ABS control must be applied very late or not at all. In

this case, the rear wheel can lift off the ground, which can cause the Scooter to roll over.



WARNING

Rear wheel lift due to severe braking

Risk of falling

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

How is the BMW Motorrad ABS designed?

BMW Motorrad ABS ensures driving stability on any surface within the possibilities of the physics of riding. The system is not optimised for special requirements that apply under extreme competitive situations off-road or on the track.

Special situations

The speeds of the front and rear wheels are compared as one means of detecting a wheel's incipient tendency to lock. If the system registers implausible values for a lengthy period the ABS function is deactivated for safety reasons and an ABS fault message

is issued. Self-diagnosis has to complete before fault messages can be issued.

In addition to problems with the BMW Motorrad ABS, exceptional riding conditions can lead to a fault message being issued.

Exceptional riding conditions

- Rear wheel rotating with the vehicle held stationary by applying the front brake (burn-out).
- Sustained slipping of the rear wheel on a slippery surface, e.g. when slowing down with the braking effect of the engine.

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

What is the role of regular servicing?



WARNING

Brake system not regularly serviced

Risk of accident

- In order to ensure that the BMW Motorrad ABS is always maintained in optimum condition, it is essential for you to comply strictly with the specified inspection intervals.

Safety reserves

BMW Motorrad ABS may not mislead the rider into a care-less riding style because they can rely on shorter stopping distances. It is primarily there to provide a safety reserve for emergency situations.

Take care in bends! Braking in bends is subject to particular laws relating to the physics of riding which even BMW Motorrad ABS cannot evade.

AUTOMATIC STABILITY CONTROL (ASC)

How does ASC work?

BMW Motorrad ASC compares the wheel speeds at the front and rear wheel. The differential is used to compute slip as a measure of the reserves of stability available at the rear wheel. If slip exceeds a certain limit, the engine management system intervenes and adapts engine torque accordingly.

Special situations

In accordance with the laws of physics, the ability to accelerate is restricted more and more as the angle of heel increases. Consequently, there can be a perceptible reduction in acceleration out of very tight bends.

The speeds of the front and rear wheels are compared as one means of detecting the rear wheel's incipient tendency to spin or slip sideways. If the system registers implausible values for a lengthy period the ASC function is deactivated for safety reasons and an ASC fault message is issued. Self-diagnosis has to complete before fault messages can be issued.

If the front wheel lifts clear of the ground under severe acceleration, the ASC reduces engine torque until the front wheel regains contact with the ground.

Under these circumstances, BMW Motorrad recommends rolling the throttle slightly closed so as to restore stability with the least possible delay.

Never turn the throttle grip all the way back suddenly when on slippery road surfaces. Engine braking torque can cause the rear wheel to lock, with a corresponding loss of stability. The BMW Motorrad ASC is unable to control a situation of this nature.

MAINTENANCE

10

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GENERAL NOTES

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

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

Microencapsulated screws

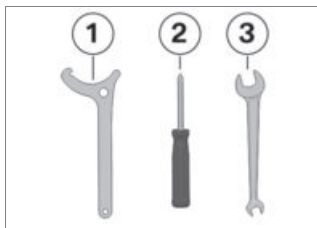
The microencapsulation is a chemical thread-locker. An adhesive compound creates a secure connection between bolt and nut or between screw and component. Consequently, microencapsulated screws are for once-only use and are not intended for re-installation after being slackened.

After removal of the screw, clean the internal thread to remove all traces of thread-locking compound. Always use new microencapsulated screws when re-assembling. Consequently, prior to disassembly make sure that you have suitable tools for cleaning the threads and a new replacement for each screw to be removed. If the job is not done correctly there is no guaran-

tee that the screw will remain secure, which means that you would be putting yourself at risk!

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

STANDARD TOOL KIT



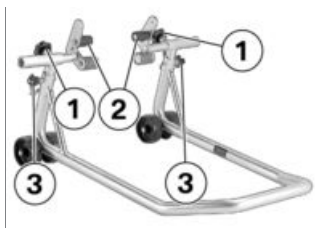
- 1** Hook wrench
–Adjusting spring preload for rear wheel (▮▮▮ 115).
- 2** Reversible screwdriver blade
Phillips PH1 and Torx T25
–Removing body panels.
–Removing battery cover (▮▮▮ 170).
- 3** Open-ended spanner
Width across flats 10/16 mm

- 3 –Removing battery
( 168).

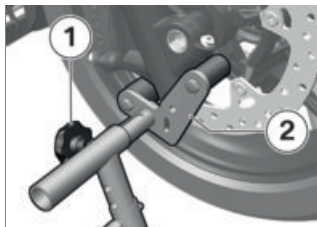
FRONT-WHEEL STAND

Installing front-wheel stand

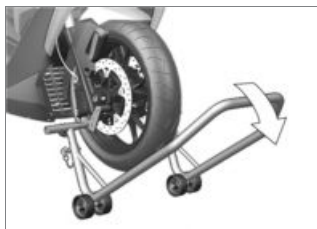
- Make sure the ground is level and firm and place the Scooter on its centre stand.
- Use basic stand with front-wheel adapter. The basic stand and its accessory components are available from your BMW Motorrad authorised dealer.



- Slacken screws 1.
- Push the two adapters 2 apart until the front forks fit between them.
- Use locating pins 3 to set the front-wheel stand to the desired height.
- Centre the front-wheel stand relative to the front wheel and push it into position at the front axle.



- Align the mountings 3 on the left and right so that the front suspension is securely seated.
- Tighten securing screws 2 on left and right.



ATTENTION

Centre stand lifts clear if the vehicle is lifted too high

Risk of damage to parts if vehicle topples

- When lifting, make sure that the centre stand remains in contact with the ground.
- If necessary, adjust the height of the front-wheel stand.

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- Apply uniform pressure to push the front-wheel stand down and raise the Scooter.
- Make sure the Scooter is standing firmly.

ENGINE OIL

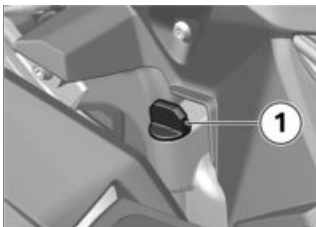
Checking engine oil level

ATTENTION

Misinterpretation of oil level reading, because oil level is temperature-dependent (the higher the temperature, the higher the oil level)

Engine damage

- Check the oil level only after a lengthy ride or when the engine is at operating temperature.
- After switching off the engine, you must wait for 1 minute before checking the oil level.
- Make sure the ground is level and firm and with the engine at operating temperature, place the Scooter on its centre stand.
- Wipe the area around the oil filler opening clean.

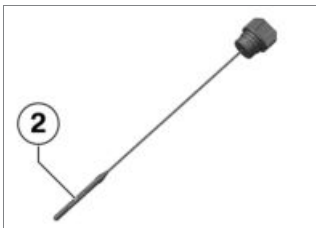


ATTENTION

Vehicle toppling sideways

Risk of damage to parts if vehicle topples

- Secure the vehicle, preferably with the assistance of a second person, so that it cannot topple sideways.
- Remove the oil dipstick **1**.



- Wipe the oil off MIN-MAX part of dipstick **2** with a clean, dry cloth.

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



Engine oil, specified level

between **MIN** and **MAX** mark (Engine at operating temperature, insert oil dipstick until resting on edge of oil filler neck, **do not engage the threads.**)

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

- Top up the engine oil to the specified level.



Engine oil, quantity for topping up

max 0.4 l (Difference between **MIN** and **MAX**)

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

- Have the oil level corrected by a specialist workshop, preferably an authorised BMW Motorrad retailer.
- Insert the oil dipstick and tighten it by hand.

BRAKE SYSTEM

Checking function of brakes

- Operate right brake lever.
 - » The pressure point must be clearly perceptible.
- Operate left brake lever.
 - » The pressure point must be clearly perceptible.

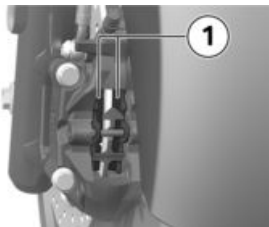
If pressure points are not clearly perceptible:

- Have the brakes checked by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

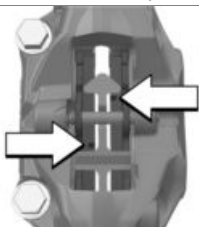
Checking brake pad thickness, front brakes

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

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- Visually inspect the brake pads to ascertain their thickness. Turn the handlebars to the right.
- Viewing direction: from the rear toward brake pads **1**.
- Turn the handlebars to the left and check the brake pad thickness on the right-hand side in the same way.



Brake-pad wear limit,
front

≥ 1 mm (Friction pad only, without backing plate. Wear marks (grooves) must be clearly visible.)

If the wear indicating marks are no longer clearly visible:



WARNING

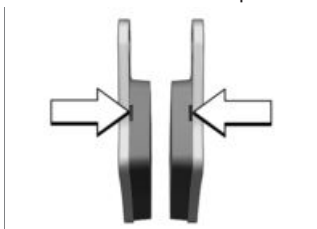
Brake-pad thickness less than permissible minimum

Diminished braking effect, damage to the brakes

- In order to ensure the dependability of the brake system, do not permit the brake pads to wear past the minimum permissible thickness.
 - Have the brake pads replaced by a specialist workshop, preferably an authorised BMW Motorrad retailer.
 - BMW Motorrad recommends installing only genuine brake pads from BMW Motorrad.
- #### **Checking brake pad thickness, rear brakes**
- Make sure the ground is level and firm and place the Scooter on its stand.



- Visually inspect the brake pads to ascertain their thickness. Viewing direction: from the rear toward brake pads 1.



Brake-pad wear limit,
rear

min 1 mm (Friction pad only, without backing plate. Groove in the pad material marks the wear limit.)

If the wear marks have been reached:



WARNING

Brake-pad thickness less than permissible minimum

Diminished braking effect, damage to the brakes

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

- Have the brake pads replaced by a specialist workshop, preferably an authorised BMW Motorrad retailer.
- BMW Motorrad recommends installing only genuine brake pads from BMW Motorrad.

Brake fluid level

The brake fluid level can be checked in the sight glasses of the brake fluid reservoirs. The brake fluid reservoir for the front wheel brake is on the right, the brake fluid reservoir for the rear wheel brake is on the left.

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Check the brake-fluid level,
front and rear wheel brakes



WARNING

Not enough brake fluid in brake fluid reservoir, or contaminants in brake fluid

Considerably reduced braking power due to presence of air, contaminants or water in the brake system

- Cease operation of the vehicle immediately and do not ride it until the fault has been rectified.
 - Check the brake-fluid levels at regular intervals.
 - Always make sure that the lid of the brake fluid reservoir and the area around the lid are cleaned before opening.
 - Make sure that only fresh brake fluid from a sealed container is used.
-
- Make sure the ground is level and firm and place the Scooter on its centre stand.
 - Turn the handlebars to a position in which the brake fluid reservoir is horizontal.



- Check the brake fluid level in sight glass **1** of the left or, as applicable, right brake fluid reservoir.



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



Brake fluid level

Brake fluid, DOT4

It is not permissible for the brake fluid level to be below the **MIN** mark. (Brake-fluid reservoir horizontal)

If the brake fluid level drops below the permitted level:

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

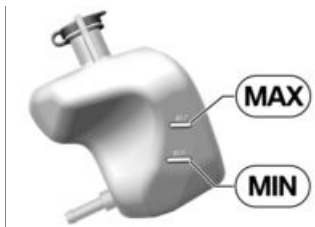
COOLANT

Checking coolant level

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



- Viewing direction: from the front under the front trim panel. Check the coolant level in the coolant expansion tank **1**.



 Specified coolant level in expansion tank

between **MIN** and **MAX** mark (Engine cold)

If the coolant drops below the permitted level:

- Top up the coolant.

Topping up coolant

- Remove the fairing side panel ( 170).



- Open cap **1** of the coolant expansion tank and top up the coolant to the specified level.
- Check the coolant level ( 147).

148 MAINTENANCE

- Close cap 1 of the coolant expansion tank.
- Installing side panel (171).

TYRES

Checking tyre pressure



WARNING

Incorrect tyre pressure.

Impaired handling characteristics of the Scooter. Impaired control response of the ASC and more rapid tyre wear.

- Always check that the tyre pressures are correct.



WARNING

Tendency of valve inserts installed vertically to open by themselves at high riding speeds

Sudden loss of tyre pressure

- Install valve caps fitted with rubber sealing rings and tighten firmly.
- Make sure the ground is level and firm and place the Scooter on its stand.

- Check tyre pressures against the data below.



Tyre pressure, front

2.2 bar (One-up, tyre cold)

2.4 bar (Two-up mode with loading; tyre cold)



Tyre pressure, rear

2.4 bar (One-up, tyre cold)

2.6 bar (Two-up mode with loading; tyre cold)

If tyre pressure is too low:

- Correct tyre pressure.

RIMS AND TYRES

Checking rims

- Make sure the ground is level and firm and place the Scooter on its stand.
- Visually inspect the rims for defects.
- Have damaged rims inspected by a specialist workshop and replaced if necessary, preferably by an authorised BMW Motorrad Retailer.

Checking tyre tread depth



WARNING

Riding with badly worn tyres

Risk of accident due to impaired handling

- If applicable, have the tyres changed in good time before they wear to the minimum tread depth permitted by law.

- Make sure the ground is level and firm and place the Scooter on its stand.
- Measure the tyre tread depth in the main tread grooves with wear marks.



Wear indicators are built into the main profile grooves on each tyre. The tyre is worn out when the tyre tread has worn down to the level of the marks. The locations of the marks are indicated on the edge of the tyre, e.g. by the letters TI, TWI or by an arrow. If the tyre tread is worn to minimum:

- Replace tyre or tyres, as applicable.

WHEELS

Tyre recommendation

For each size of tyre, BMW Motorrad tests and classifies as roadworthy certain makes. BMW Motorrad cannot assess the suitability or provide any guarantee of road safety for other tyres.

BMW Motorrad recommends using only tyres tested by BMW Motorrad.

More detailed information is available from your authorised BMW Motorrad retailer.

Effect of wheel size on chassis and suspension control systems

Wheel size is very important as a parameter for the ABS running-gear control system. In particular, the diameter and the width of a vehicle's wheels are programmed into the control unit and are fundamental to all calculations. Any change in these influencing variables, caused for example by a switch to wheels other than those installed ex-works, can have serious effects on the performance of the control systems.

The sensor rings are essential for correct road-speed calculation, and they too must match

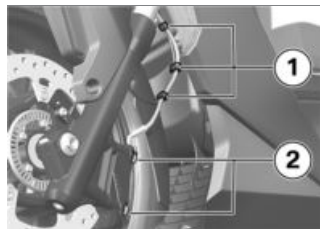
150 MAINTENANCE

the motorcycle's control systems and consequently cannot be changed.

If you decide that you would like to fit non-standard wheels to your Scooter, it is very important to consult a specialist workshop beforehand, preferably an authorised BMW Motorrad retailer. In some cases, the data programmed into the control units can be changed to suit the new wheel sizes.

Removing front wheel

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



- Mask off the parts of the wheel rim that could be scratched in the process of removing the brake calipers.
- Disengage the brake line from holders 1.



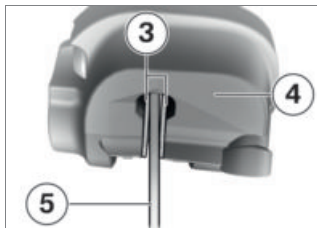
ATTENTION

Unwanted inward movement of the brake pads

Component damage on attempt to install the brake caliper or because brake pads have to be forced apart

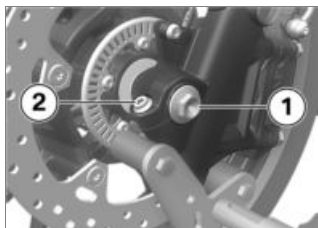
- Do not operate the brakes with a brake caliper not correctly secured.

- Remove screws 2 of the brake calipers on left and right.

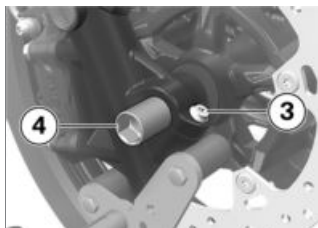


- Force brake pads 3 slightly apart by rocking brake caliper 4 back and forth against brake disc 5.
- Carefully pull the brake calipers back and out until clear of the brake discs.

- Lift the front of the Scooter until the front wheel is clear of the ground, preferably using a BMW Motorrad front-wheel stand.
- Install the front-wheel stand (→ 141).



- Remove screw 1.
- Slacken clamping screw 2.



- Slacken clamping screw 3.
- Press quick-release axle 4 slightly inward on the left-hand side, to make it easier to grip on the right-hand side.
- Support the wheel and remove quick-release axle 4.

ATTENTION

Removal of front wheel not in compliance with correct procedure

Damage to wheel speed sensor

- Note the wheel-speed sensor when rolling out the front wheel.

- Roll the front wheel forward to remove.

Installing front wheel

WARNING

Use of a non-standard wheel

Malfunctions in control attempts made by the ABS and ASC

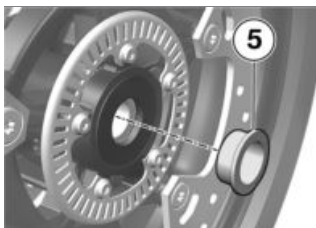
- See the information on the effect of wheel size on the ABS and ASC systems at the start of this chapter.

ATTENTION

Tightening threaded fasteners to incorrect tightening torque

Damage, or threaded fasteners work loose

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



- Clean spacer bushing **5** if necessary and lubricate.



Lubricant

Optimoly TA

- Insert spacer bushing **5** into the wheel hub on the left-hand side.

ATTENTION

Front wheel installed wrong way round

Risk of accident

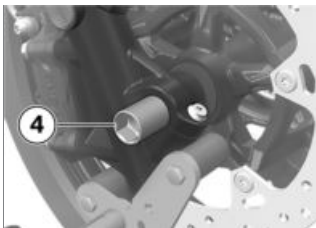
- Note direction-of-rotation arrows on tyre or rim.

ATTENTION

Installation of front wheel not in compliance with correct procedure

Damage to wheel speed sensor

- Note the wheel-speed sensor when rolling in the front wheel.
- Roll the front wheel into position between the forks of the front suspension.



- Clean and lubricate quick-release axle **4**.



Lubricant

Optimoly TA

- Lift the front wheel slightly and install quick-release axle **4**.



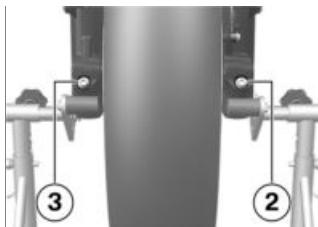
- Install screw **1** and tighten to specified torque. In this process, counter-hold the quick-release axle on the right side.



Bolt in quick-release axle at front

M12 x 20

32 Nm



- Tighten clamping bolts **3** and **2** to the specified torque.

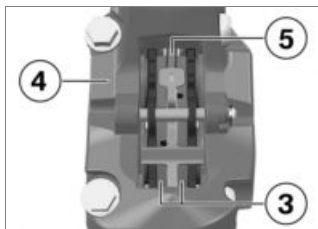


Clamping bolts (quick-release axle) in telescopic forks

M8 x 30

19 Nm

- Remove the front-wheel stand.



- Position brake caliper **4** on the brake disc, making sure that brake disc **5** is between brake pads **3**.
- Install the brake caliper on the other side in the same way.

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- Install screws **2** on left and right until the screw heads are seated, but **do not tighten**.
- Operate the brake several times until the brake pads are bedded, **fix brake lever with rubber band**.
- Tighten screws **2** on left and right to the specified torque.



Brake caliper to fork leg

M8 x 50 - 10.9

32 Nm

- Secure the brake line in holders **1**.
- Release the brake lever.
- Use a torque wrench to check that screws **2** on left and right are tightened to the specified torque.



Brake caliper to fork leg

M8 x 50 - 10.9

32 Nm

- Remove the adhesive tape from the wheel rim.

Removing rear wheel



CAUTION

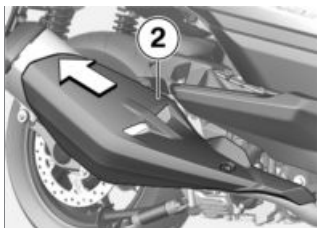
Hot engine and/or hot exhaust system

Risk of burn injury

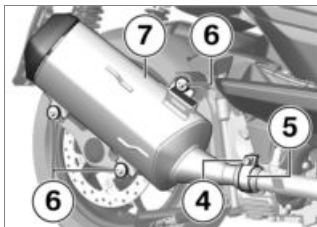
- Allow engine and exhaust system to cool before starting work.
- Make sure the ground is level and firm and place the Scooter on its centre stand.
- Apply masking tape to the parts of the rim that could be scratched.



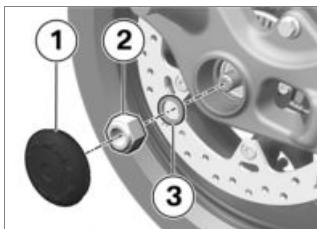
- Remove screw **1**.
- Raise the trim for the silencer **2** slightly and remove insulating disc.



- Push trim for silencer **2** to the rear and remove.



- Slacken screw **4** of clamp **5**.
- Remove screws **6** with the washers.
- Pull silencer **7** off the exhaust manifold and remove.

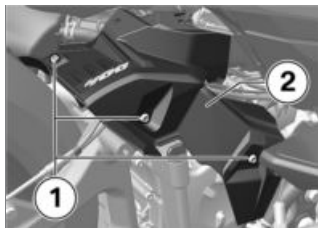


- Pull the handlebar lever to apply the rear wheel brake and

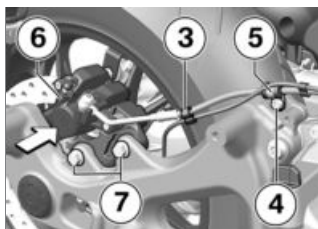
secure the handlebar lever in this position with a rubber strap.

» Rear wheel cannot turn.

- Carefully pry off cap **1** and remove.
- Remove nut **2** and washer **3**.
- Remove the rubber strap securing the lever of the rear wheel brake.



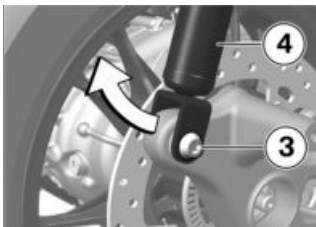
- Remove screws **1**.
- Lift rear-wheel cover **2**.



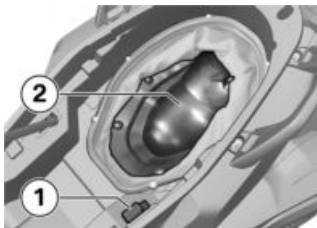
- Release brake line from holders **3**.
- Remove bolt **4** and release holder for brake line **5**.

156 MAINTENANCE

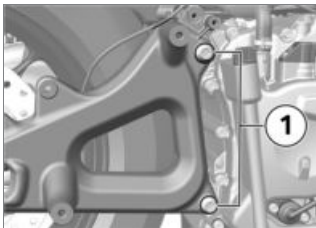
- Press brake caliper **6** against the brake disc.
- » The brake piston is forced back.
- Remove screws **7**.
- Lift brake caliper **6** up and clear of the brake disc and allow it to dangle to one side.



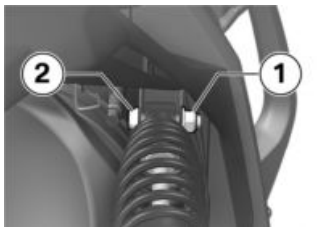
- Remove screw **3**.
- Pivot spring strut **4** to the rear.



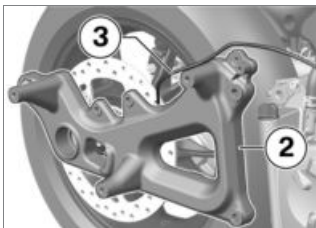
- Open the seat.
- Pull release lever **1** forward and open luggage-compartment lid **2**.



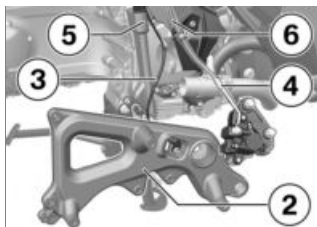
- Remove screws **1**.



- Slacken nut **1** of the top spring strut mount while counter-holding bolt **2** with a cranked wrench.



- Disengage rear wheel swinging arm **2**, taking care not to damage cable **3** for the wheel speed sensor.



- Work cable **3** for the wheel speed sensor and brake hose **4** through between oil filler neck **5** and rear wheel cover **6**.
- » There is no strain on cable **3**.
- Lay down rear wheel swinging arm **2**.



- Remove the spacer bush **1**.
- Pull the rear wheel **2** off the output shaft and remove.

Installing rear wheel



ATTENTION

Tightening threaded fasteners to incorrect tightening torque

Damage, or threaded fasteners work loose

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



- Clean the output shaft.
- Lubricate the gearing of the output shaft.

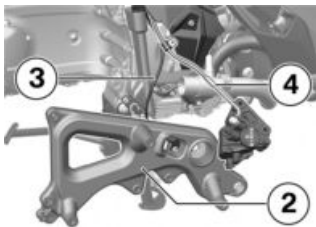


Lubricant

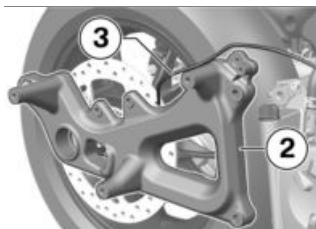
MP 3 paste

- » Do not apply lubricant to the thread of the output shaft.
- Push rear wheel **2** onto the output shaft and rotate until it engages with the gearing.
- Install spacer bush **1**.

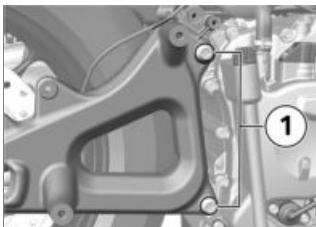
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- Thread rear wheel swinging arm **2** with cable **3** for wheel speed sensor and brake hose **4** back into position.



- Position the rear wheel swinging arm **2**, making sure that the cable **3** for the wheel speed sensor is routed correctly.



- Install bolts **1** and tighten to the specified torque.



Right swinging arm on drivetrain swinging arm

M10 x 50

38 Nm



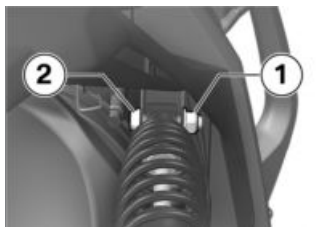
- Pivot spring strut **4** forward and hold it in position.
- Install bolt **3** and tighten to the specified torque.



Spring strut on swinging arm

M10 x 50

38 Nm



- Hold bolt **2** in place with an offset screwdriver and tighten nut **1** to specified torque.

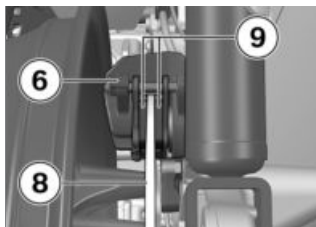
 Spring strut to frame

M10 x 50

Thread-locking compound:
mechanical

38 Nm

- Close the luggage compartment lid.
- Close the seat.



- Clean the threads.
- Position brake caliper **6** on the brake disc, making sure that brake disc **8** is between brake pads **9**.



- Position brake caliper **6**, install **new** screws **7** and tighten to specified torque.

 Rear brake caliper on rear wheel swinging arm

M8 x 30 - 10.9

Thread-locking compound:
micro-encapsulated

32 Nm

- Fit the holder for the brake line **5**, install bolt **4** and tighten to the specified torque.

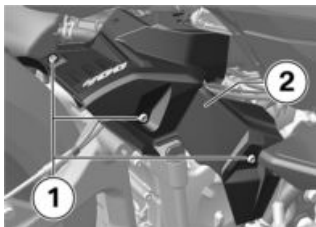
 Brake hose bracket on swinging arm

M6 x 12

8 Nm

- Secure brake line in holder **3**.

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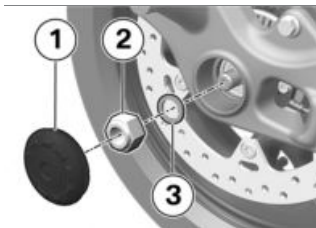


- Position rear-wheel cover **2**.
- Install screws **1**.

 Rear-wheel cover to drivetrain swinging arm

M6 x 16

8 Nm



- Operate the rear wheel brake several times to seat the brake pads.
- Pull the handlebar lever to apply the rear wheel brake and secure the handlebar lever in this position with a rubber strap.
- » Rear wheel cannot turn.
- Install washer **3**.

- Install **new** nut **2** and tighten to specified torque.

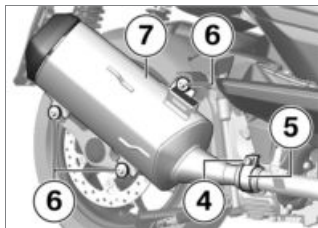
 Rear wheel on output shaft

M16

Thread-locking compound: mechanical

115 Nm

- Install cap **1**.
- Remove the rubber strap securing the lever of the rear wheel brake.



- Check seal in silencer **7**; replace if necessary.
- Seat silencer **7** on the exhaust manifold and hold it in position.
- Install bolts **6** with washers and tighten to the specified torque.

 Silencer on swinging arm

M8 x 50

21 Nm

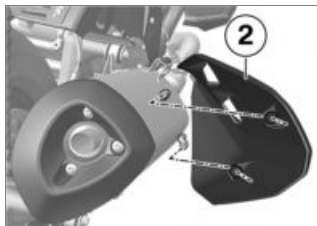
- Tighten screw **4** of clamp **5** to the specified torque.



Rear silencer on exhaust manifold

M8 x 40

25 Nm



- Hook trim for silencer **2** on to the holders.



- Raise the trim for the silencer **2** slightly and insert insulating disc.
- Install screw **1**.
- Remove the adhesive tape from the wheel rim.

FUSES

Removing the fuse Requirement

The fuses are located under the battery compartment cover on the legshield.



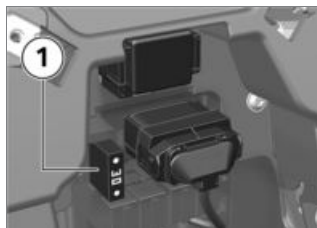
ATTENTION

Jumpering of blown fuses

Risk of short-circuit and fire

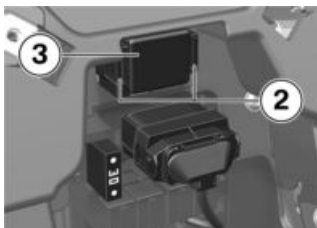
- Never attempt to jumper a blown fuse.
- Always replace a defective fuse with a new fuse of the same amperage.

- Switch off the ignition.
- Removing battery cover (111 ➔ 170).



- To remove the main fuse, pull the fuse **1** out of the fuse carrier.

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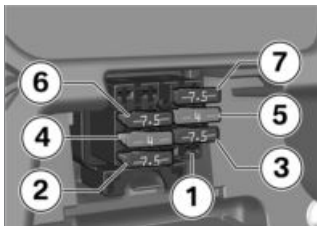


- To remove the fuses from slots 2 to 7, press locks **2** and remove lid **3** from the fuse box.



- Pull the affected fuse out of the fuse box.

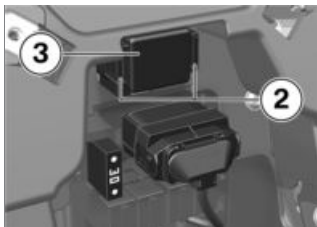
Installing a fuse



- Replace faulty fuses from the fuse box with a fuse with the required current level.

 The fuse assignments and fuse amperage ratings specified for your motorcycle are listed in the section entitled "Technical data". The figures in the graphic correspond to the fuse numbers.

 If fuse defects recur frequently have the electric circuits checked by a specialist workshop, preferably an authorised BMW Motorrad dealer.



- Install lid **3**.

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- Remove the bulb from the bulb socket.
- Replace the faulty bulb.



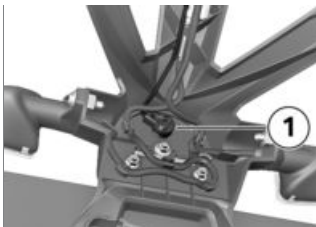
Light source for the
number plate light

W5W / 12 V / 5 W

- Use a clean, dry cloth to hold the new bulb in order to keep the glass free of foreign matter.



- Insert the bulb into the socket.



- Insert bulb socket **1** into the light housing.

BATTERY

Maintenance instructions

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

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

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

**ATTENTION****On-board electronics (e.g. clock) draining connected battery**

Battery is deep-discharged; this voids the guarantee

- Connect a float charger to the battery if the motorcycle is to remain out of use for more than four weeks.

Jump-starting**ATTENTION****Excessive current when jump-starting the Scooter**

Cable fire or damage to the vehicle electronics

- Do not jump-start the Scooter using the socket; only use the battery terminals.

**ATTENTION****Contact between crocodile clips of jump leads and vehicle**

Risk of short-circuit

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

**ATTENTION****Jump-starting with a voltage greater than 12 V**

Damage to the on-board electronics

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

- Make sure the ground is level and firm and place the Scooter on its stand.
- Removing battery cover (▮▮▮▮▶ 170).
- Removing the battery holder (▮▮▮▮▶ 168).
- When jump-starting the engine, do not disconnect the battery from the on-board electrical system.
- Use the red jump lead to connect the remote positive terminal of the discharged battery to the positive terminal of the donor battery.
- Then connect one end of the black jump lead to the negative terminal of the donor battery, and the other end to the negative terminal of the discharged battery.
- Run the engine of the donor vehicle during jump-starting.



Do not use proprietary start-assist sprays or other products to start the engine.

- Start the engine of the vehicle with the discharged battery in the usual way; if the engine does not start, wait a few minutes before repeating the attempt in order to protect the starter motor and the donor battery.
- Allow both engines to run for a few minutes before disconnecting the jump leads.
- Disconnect the jump lead from the negative terminal first, then from the positive terminal.
- Installing the battery holder (169).
- Installing battery cover (170).

Recharging connected battery



ATTENTION

Charging the battery that is connected to the vehicle via the battery terminals

Damage to the on-board electronics

- Disconnect the battery at the battery terminals before charging.



ATTENTION

Recharging a fully discharged battery via the power socket or extra socket

Damage to the vehicle electronics

- If a battery has discharged to the extent that it is completely flat (battery voltage less than 12 V, indicator lights and multifunction display remain off when the ignition is switched on) always charge the **disconnected** battery with the charger connected directly to the battery terminals.
- Use only the socket in the right-hand storage compartment to charge the connected battery.



ATTENTION

Commercially available battery chargers connected to the on-board power socket

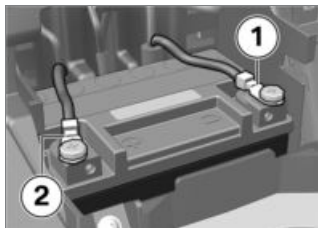
Damage to charger and to frame and suspension electronics

- Use only chargers approved by BMW Motorrad.

- Comply with the operating instructions of the charger.

Recharging disconnected battery

- Removing battery cover (▶ 170).
- Removing the battery holder (▶ 168).



ATTENTION

Battery not disconnected in accordance with correct procedure

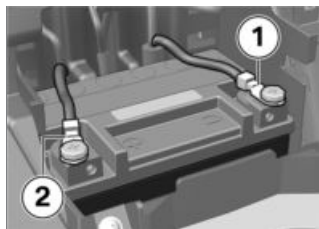
Risk of short-circuit

- Always proceed in compliance with the specified disconnection sequence.
- First disconnect negative battery cable **2**.
- Then disconnect positive battery cable **1**.
- Charge the battery using a suitable charger.
- Comply with the operating instructions of the charger.

- Once the battery is fully charged, disconnect the charger's terminal clips from the battery terminals.



The battery has to be recharged at regular intervals in the course of a lengthy period of disuse. See the instructions for caring for your battery. Always fully recharge the battery before restoring it to use.



ATTENTION

Battery not connected in accordance with correct procedure

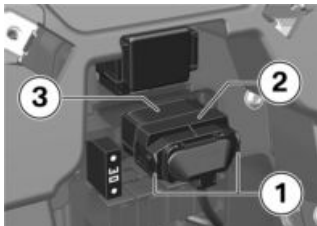
Risk of short-circuit

- Always proceed in compliance with specified installation sequence.
- First connect positive battery cable **2**.
- Then connect negative battery cable **1**.

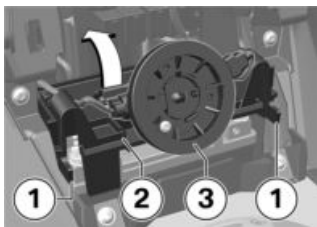
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- Installing the battery holder (169).
- Installing battery cover (170).

Removing the battery holder



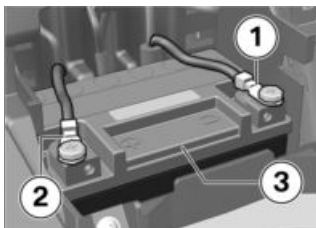
- Push in locks 1.
- Loosen diagnostic connector 2 from holder 3 and allow it to hang to one side.



- Press locks 1 on left and right and fold the battery holder 2 up.
- Unhook battery holder 1 from the rear of the battery compartment, pull out with audio frequency aerial 3 and lay to the side.

Removing battery

- Switch off the ignition.
- If applicable, switch off the anti-theft alarm.
- Removing battery cover (170).
- Removing the battery holder (168).



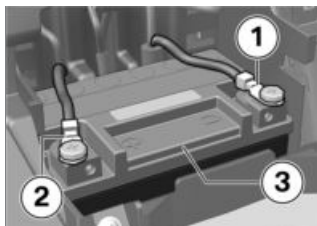
ATTENTION

Battery not disconnected in accordance with correct procedure

Risk of short-circuit

- Always proceed in compliance with the specified disconnection sequence.
- First disconnect battery negative lead 1.
- Then disconnect the battery positive lead 2.
- Remove the battery 3 from the battery compartment.

Installing battery



- Place the battery **3** in the battery compartment, positive terminal on the left side.



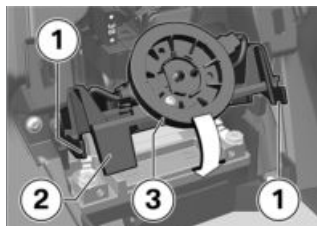
ATTENTION

Battery not connected in accordance with correct procedure

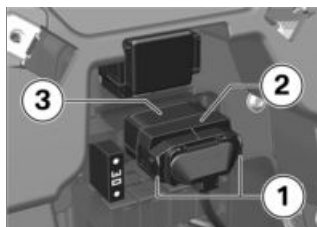
Risk of short-circuit

- Always proceed in compliance with specified installation sequence.
- First install the positive battery cable **2**.
- Then install the negative battery cable **1**.
- Installing the battery holder (➡ 169).
- Installing battery cover (➡ 170).
- Set the clock (➡ 77).
- Set the date (➡ 77).

Installing the battery holder



- Place the battery holder **2** with the audio frequency aerial **3** in position and hook in place at the rear of the battery compartment.
- Fold down the battery holder **2** while pressing locks **1** until it engages.



- Insert the diagnostic connector **2** into the bracket **3**.
» The locks **1** engage.

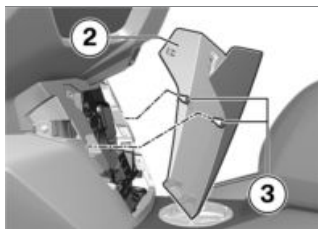
170 MAINTENANCE

TRIM PANEL COMPONENTS

Removing battery cover

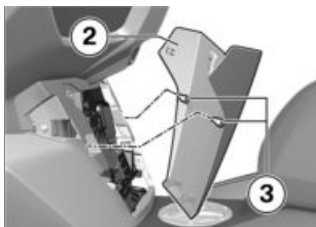


- Remove screws **1**.



- Slightly raise battery cover **2** at the edges.
- Pull mounting clips **3** of battery cover **2** out of the fixtures.

Installing battery cover



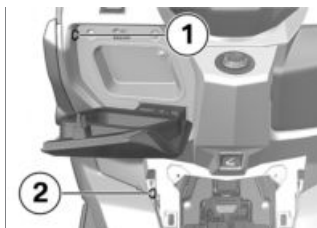
- Check that all mounting clips **3** are in place on battery cover **2**.
- Hook battery cover **2** in at the bottom and uniformly press mounting clips **3** into the fixtures.



- Install screws **1**.

Remove the fairing side panel

- Removing battery cover (170).
- Switch on the ignition.
- Open the left storage compartment.
- Switch off the ignition.

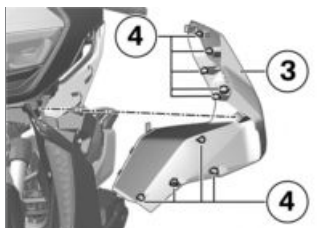


- Remove screws **1** and **2** for fairing side panel.

 The steps described here for the left fairing side panel also apply for the right-hand side.

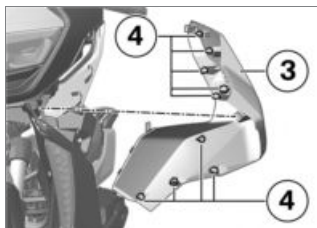


- Remove screw **3**.



- Raise fairing side panel **3** slightly at the edges.
- Ease mounting clips **4** of fairing side panel **2** as uniformly as possibly out of their mounts.

Installing side panel



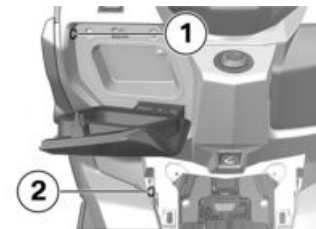
- Check that all mounting clips **4** are in place in fairing side panel **3**.
- Hold fairing side panel **3** in position and uniformly press mounting clips **4** into the fixtures.

 The steps described here for the left fairing side panel also apply for the right-hand side.

172 MAINTENANCE



- Install screw **3**.



- Install screws **1** and **2** for the fairing side panel.
- Close left storage compartment.
- Installing battery cover (→ 170).

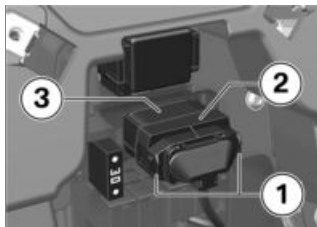
DIAGNOSTIC CONNECTOR

Disengaging diagnostic socket

Requirement

The diagnostic connector is located under the battery compartment cover on the leg-shield.

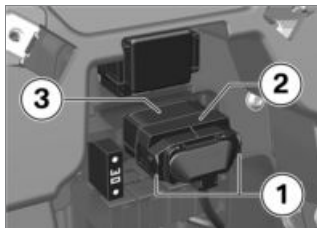
- Removing battery cover (→ 170).



- Push in locks **1**.
 - Disengage diagnostic socket **2** from holder **3**.
- » The interface to the diagnosis and information system can be connected to the diagnostic connector **2**.

Installing the diagnostic connector

- Disconnect the interface for the diagnosis and information system.



- Insert diagnostic socket **2** into holder **3**.

- » The locks **1** engage.
- Installing battery cover
( 170).

ACCESSORIES

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NAVIGATION SYSTEM	180

GENERAL NOTES



CAUTION

Use of other-make products

Safety risk

- BMW Motorrad cannot examine or test each product of outside origin to ensure that it can be used on or in connection with BMW vehicles without constituting a safety hazard. Country-specific official authorisation does not suffice as assurance. Tests conducted by these instances cannot make provision for all operating conditions experienced by BMW vehicles and, consequently, they are not sufficient in some circumstances.
- Use only parts and accessories approved by BMW for your vehicle.

Parts and accessory products from BMW have undergone extensive testing to establish that they are safe, functional and suitable. Consequently, BMW accepts responsibility for the products. BMW accepts no liability whatsoever for parts and accessories that it has not approved.

All modifications must be in compliance with legal requirements. Make sure that the vehicle does not infringe the national road-vehicle construction and use regulations applicable in your country. Your authorised BMW Motorrad retailer can offer expert advice on the choice of genuine BMW parts, accessories and other products. To find out more about accessories go to:

bmw-motorrad.com/equipment

POWER SOCKET

Information on using the socket:

Connection of electrical devices

- Electrical devices connected to the motorcycle's socket can only be used when the ignition is switched on.
- The sockets continue to receive power for only 60 seconds after the ignition is switched off.

Cable routing

Note the following with regard to the routing of cables from sockets to items of electrical equipment:

- Make sure that cables do not impede the rider.
- Make sure that cables do not restrict the steering angle or obstruct handling.
- Make sure that cables cannot be trapped.

Automatic shutdown

- The power supply to the socket is interrupted automatically during the start procedure.
- The power supply to the sockets is switched off no later than 15 minutes after the ignition is switched off, in order to prevent overloading of the on-board electrics. Low-wattage electrical accessories might not be recognised by the vehicle's electronics. In such cases, power sockets are switched off very shortly after the ignition is turned off.
- If the battery charge state is likely to drop too low to maintain the motorcycle's start capability, the power supply to the socket is switched off.

- The power supply to the socket is switched off if maximum load capability as stated in the technical data is exceeded.

USB CHARGING SOCKET

Notes on use:

Charge current

This is a 5 V USB charging interface that provides a maximum charge current of 2.4 A.

Automatic shutdown

The USB charging sockets are shut down automatically under the following circumstances:

- If battery charge state is too low, to maintain the vehicle's start capability.
- If the maximum load capacity as stated in the technical data is exceeded.
- During the starting operation.

Connection of electrical devices

You can start using electrical devices connected to the USB charging sockets only when the ignition is switched on. The power supply to the sockets is switched off no more than 15 minutes after the ignition is switched off, in order to pre-

178 ACCESSORIES

vent overloading of the on-board electrics.

While riding in the rain, you should disconnect the device from the interface in order to protect against damage.

To prevent dirtying, keep the protective cover closed when no device is connected.

Cable routing

Note the following with regard to the routing of cables from USB charging sockets to items of electronic equipment:

- Make sure that cables do not impede the rider.
- Make sure that cables do not restrict the steering angle or obstruct handling.
- Make sure that cables cannot be trapped.

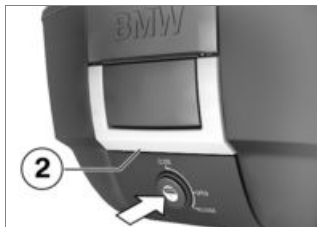
TOPCASE

- with topcase Light^{OA}

Opening topcase



- Turn the key in topcase lock **1** to the **OPEN** position.



- Push topcase lock forwards.
» Topcase handle **2** springs open.



- Pull the release lever behind the cover **3** backwards.

» The lid of the topcase opens.

- Open the topcase lid.

Closing topcase

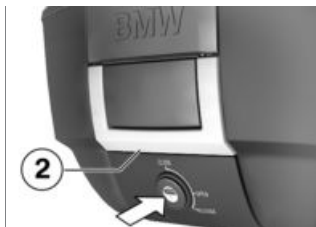


- Make sure that the topcase handle **2** is folded out.
- Close the topcase lid and push into the lock. Check that nothing is trapped between the lid and the case.
- Close the topcase handle **2**.
- If necessary, turn the key in the topcase lock to the **CLOSE** position and remove the key from the lock.

Removing topcase



- Turn the key in topcase lock **1** to the **OPEN** position.



- Push topcase lock forwards.
- » Topcase handle **2** springs open.



- Turn the key in the topcase lock to the **RELEASE** position.
- Pull release lever **4** backwards, at the same time lift the topcase by the carry handle.
- Lift the topcase to the rear from the topcase carrier.

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Installing topcase



- Make sure that topcase handle **2** is extended and that the key in the topcase lock is in the **RELEASE** position.
- Insert the topcase at the front in the topcase carrier.
- Pull release lever **4** back-wards, at the same time insert the topcase at the rear into the topcase carrier.
- Close the topcase handle **2**.
- If necessary, turn the key in the topcase lock to the **CLOSE** position and remove the key from the lock.

Maximum payload and maximum speed

Note the maximum payload and the maximum permissible speed.

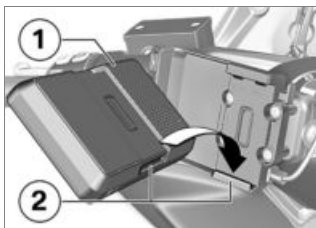
The values for the combination described here are as follows:

	Maximum speed for riding with a loaded topcase
max 130 km/h	
	Payload of topcase
max 5 kg	

NAVIGATION SYSTEM

Installing navigation device

—with navigation system^{OA}



- Set navigation device **1** into cradle **2**.



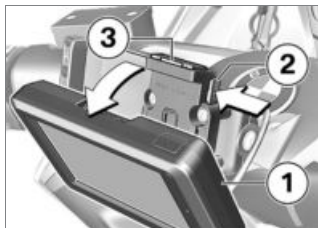
- Pivot navigation device **1** forward and at the top edge,

press it into latching mechanism **3**.

- » Navigation device engages.
- Check that the navigation device is secure in the cradle.
- » The red marking for unlocking is not visible.

Removing navigation device

—with navigation system^{OA}



- Press release **2**.
- » Red mark **3** indicates that latch is released.
- Remove navigation device **1**.

Operating navigation system BMW special menu

- Speak: Repeat most recent navigation announcement.
- Waypoint: Save current location as a favourite.
- Home: Starts navigation to home address (greyed if no home address has been defined).
- Mute: Switch automatic navigation announcements off

or on (off: a crossed-out lips symbol appears in the top line of the display). "Speak" will still activate navigation announcements. All other acoustic outputs remain switched on.

- Switch off display: Switch off the display.
- Dial home number: Dials the home phone number saved in the Navigator (not shown unless a telephone is connected).
- Diversion: Activates the diversion function (not shown unless a route is active).
- Skip: Skips the next waypoint (not shown unless the route has waypoints).

My Motorcycle

- Turn: Changes the number of data shown.
- Touch a data field on the display to open the menu for selecting data.
- The values available for selection depend on the optional extras installed on the vehicle.

CARE

12

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CARE PRODUCTS

BMW Motorrad recommends that you use the cleaning and care products you can obtain from your authorised BMW Motorrad retailer. The substances in BMW Care Products have been tested in laboratories and in practice; they provide optimised care and protection for the materials used in your vehicle.



ATTENTION

Use of unsuitable cleaning and care products

Damage to vehicle parts

- Do not use solvents such as cellulose thinners, cold cleaners, fuel or the like, and do not use cleaning products that contain alcohol.



ATTENTION

Use of strongly acidic or strongly alkaline cleaning agents

Damage to vehicle parts

- Dilute in accordance with the dilution ratio stated on the packaging of the cleaning agent.
- Do not use strongly acidic or strongly alkaline cleaning agents.

WASHING THE VEHICLE

BMW Motorrad recommends that you use BMW insect remover to soften and wash off insects and stubborn dirt on painted parts prior to washing the motorcycle.

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

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

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



After a ride in the rain, when humidity is high or after the vehicle has been

washed, condensation might form inside the headlight. This can cause temporary fogging on the headlight lens. If moisture is constantly present inside the headlight consult a specialist workshop, preferably an authorised BMW Motorrad retailer.



WARNING

Wet brake discs and brake pads after vehicle wash, after riding through water and in rainy conditions

Diminished braking effect, risk of accident

- Apply the brakes in good time to allow the friction and heat to dry the brake discs and brake pads.



ATTENTION

Effect of road salt intensified by warm water

Corrosion

- Use only cold water to wash off road salt.



ATTENTION

Damage due to high water pressure from high pressure cleaners or steam cleaners

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

- Exercise restraint when using a steam jet or high pressure cleaning equipment.

CLEANING EASILY DAMAGED COMPONENTS

Plastics



ATTENTION

Use of unsuitable cleaning agents

Damage to plastic surfaces

- Do not use cleaning agents that contain alcohol, solvents or abrasives.
- Do not use insect-remover pads or cleaning pads with hard, scouring surfaces.

Trim panel components

Clean trim panel components with water and BMW Motorrad solvent cleaner.

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Plastic windscreens and headlight lenses

Remove dirt and insects with a soft sponge and plenty of water.

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

 Clean with water and sponge only.

 Do not use any chemical cleaning agents.

TFT display

Clean the TFT display with warm water and washing-up liquid. Then dry it with a clean cloth, e.g. a paper towel.

Chrome

Carefully clean chrome sections with a generous amount of water and motorcycle cleaner from the care series BMW Motorrad Care Products. This applies especially where road salt has been in use. For an additional treatment, use BMW Motorrad metal polish.

Radiator

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



ATTENTION

Bending of radiator fins

Damage to radiator fins

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

Rubber

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



ATTENTION

Application of silicone sprays to rubber seals

Damage to the rubber seals

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

CARE OF PAINTWORK

The long-term effects of materials that are damaging to paint can be prevented by regular vehicle washes, particularly if your vehicle is ridden in areas susceptible to high levels of air pollution or natural contamina-

tion, for example tree resin or pollen.

Particularly aggressive materials, however, should be removed immediately, otherwise changes to or discolouration of the paint can result. These include, for example, spilled fuel, oil, grease, brake fluid or bird excrement. For this, we recommend BMW Motorrad solvent cleaner followed by BMW Motorrad gloss polish for preservation.

Contamination of the paint surface can be seen particularly clearly after a vehicle wash. These areas should be cleaned immediately using benzine or spirit, applied with a clean cloth or cotton pad. BMW Motorrad recommends that tar spots be removed using BMW tar remover. The paint should then be preserved in these areas.

VEHICLE PRESERVATION

If water no longer rolls off the paint, the paint must be preserved.

For paint preservation, BMW Motorrad recommends the use of BMW Motorrad gloss polish or agents containing carnauba wax or synthetic wax.

LAYING UP YOUR SCOOTER

- Clean the Scooter.
- Fill the Scooter's fuel tank and, if necessary, pour fuel additive into the tank. BMW Motorrad recommends using ADVANTEC Protect Original BMW Fuel Additive to prevent fuel ageing effects.
- Removing battery (➡ 168).
- Spray the brake-lever, centre-stand and side-stand pivot mounts with a suitable lubricant.
- Coat bright metal and chrome-plated parts with an acid-free grease (e.g. Vaseline).
- Stand the Scooter in a dry room in such a way that there is no load on either wheel.

RESTORING YOUR SCOOTER TO USE

- Remove the protective wax coating.
- Clean the Scooter.
- Installing battery (➡ 169).
- Checklist (➡ 120).

TECHNICAL DATA

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TROUBLESHOOTING CHART

Engine does not start or is difficult to start.

Possible cause	Rectification
Side stand extended	Retract the side stand.
Starting without operating the brakes	When starting, operate a brake lever.
BMW flexcase open	Close BMW flexcase.
No fuel in tank	Refuelling (▮▮▮ 127).
Battery flat	Recharging battery (▮▮▮ 167).

The Bluetooth connection is not established.

Possible cause	Rectification
Necessary steps for Bluetooth coupling have not been carried out.	Check the necessary steps for Bluetooth coupling in the operating instructions for the communication system.
Communication system is not automatically connected, even though Bluetooth coupling has taken place.	Switch off the helmet's communication system and reconnect it after a minute or two.
Too many Bluetooth devices are saved on the helmet.	All Bluetooth coupling entries on the helmet are deleted (see the communication system operating instructions).
There are other vehicles with Bluetooth-capable devices in the vicinity.	Avoid simultaneous Bluetooth coupling with several vehicles.

Bluetooth connection is interrupted.

Possible cause	Rectification
The Bluetooth connection to the mobile end device is interrupted.	Switch off energy saving mode.
The Bluetooth connection to the helmet is interrupted.	Switch off the helmet's communication system and reconnect it after a minute or two.
The volume in the helmet cannot be adjusted.	Switch off the helmet's communication system and reconnect it after a minute or two.

The telephone book is not displayed in the TFT display.

Possible cause	Rectification
The phone book was not transmitted to the vehicle.	Confirm transmission of the phone data (104) when Bluetooth coupling with the mobile end device.

Active route guidance is not displayed in the TFT display.

Possible cause	Rectification
Navigation from the BMW Motorrad Connected App was not transmitted.	The BMW Motorrad Connected App is opened on the connected mobile end device prior to departure.
The route guidance cannot be started.	Secure the mobile device's data connection and check the map data on the mobile end device.

192 TECHNICAL DATA

ASC is making adjustments where not required, too often, or too early.

Possible cause	Rectification
Insufficient tyre pressure front or rear; tyre pressure or load has changed	Checking tyre pressure (▮▮▮ 148).

THREADED FASTENERS

Brakes	Value	Valid
Brake caliper to fork leg		
M8 x 50 - 10.9	32 Nm	
Rear brake caliper on rear wheel swinging arm		
M8 x 30 - 10.9, Replace screw micro-encapsulated	32 Nm	
Brake hose bracket on swinging arm		
M6 x 12	8 Nm	

Front wheel	Value	Valid
Bolt in quick-release axle at front		
M12 x 20	32 Nm	
Clamping bolts (quick-release axle) in telescopic forks		
M8 x 30	19 Nm	

Rear wheel	Value	Valid
Rear wheel on output shaft		
M16, Replace nut mechanical	115 Nm	

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Rear wheel	Value	Valid
Right swinging arm on drivetrain swinging arm		
M10 x 50	38 Nm	
Spring strut on swinging arm		
M10 x 50	38 Nm	
Spring strut to frame		
M10 x 50, Renew the nut; the bolt can be re-used mechanical	38 Nm	

Exhaust system	Value	Valid
Silencer on swinging arm		
M8 x 50	21 Nm	
Rear silencer on exhaust manifold		
Clamp, M8 x 40	25 Nm	

FUEL

Recommended fuel grade	Premium unleaded (maximum 15 % ethanol, E15) 95 ROZ/RON min 90 AKI
	E5 Regular unleaded (maximum 15 % ethanol, E15) 91 ROZ/RON min 87 AKI
Usable fuel capacity	approx. 12.8 l
Reserve volume	approx. 3 l
Fuel consumption	3.5 l/100 km, in accordance with WMTC
CO2 emission	81 g/km, according to WMTC
Exhaust emissions standard	EU5

ENGINE OIL

Engine oil, capacity	approx. 1.8 l, with filter change
Specification	SAE 5W-40, API SJ / JASO MA2, Additives (e.g. molybdenum-based) are not permissible because they can attack coated components of the engine, BMW Motorrad recommends BMW Motorrad ADVANTEC Ultimate
Engine oil, quantity for topping up	max 0.4 l, Difference between MIN and MAX

BMW recommends **ADVANTEC**
ORIGINAL BMW ENGINE OIL

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ENGINE

Engine number location	Crankcase, left next to the oil filter
Engine type	A81A03B
Engine design	Drivetrain swinging arm with single-cylinder four-stroke engine, four valves with rocker arms
Displacement	350 cm ³
Cylinder bore	80 mm
Piston stroke	69.6 mm
Compression ratio	11.5 : 1
Nominal capacity	25 kW, at engine speed: 7500 min ⁻¹
Torque	35 Nm, at engine speed: 5750 min ⁻¹
Maximum engine speed	max 9400 min ⁻¹
Idle speed	1450 $\pm$ 50 min ⁻¹ , Engine at regular operating temperature

CLUTCH

Clutch type	Centrifugal clutch
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TRANSMISSION

Type of transmission	CVT (Continuously Variable Transmission)
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FINAL DRIVE

Type of final drive	Spur gear unit
Gear ratio of the final drive	8.71

FRAME

Frame type	Bridge-type steel frame
Position of the vehicle identification number	Frame, front right on steering head
Type plate location	Frame right, centre, top

CHASSIS AND SUSPENSION

Type of front suspension	Telescopic forks
Spring travel, front	110 mm, at front wheel
Type of rear suspension	Drivetrain swinging arm with screwed on auxiliary swinging arm
Design of the rear-wheel suspension	Directly steered spring strut with adjustable spring preload
Spring travel at rear wheel	112 mm, at rear wheel

BRAKES**Front wheel**

Type of front brake	Twin disc brake, rigid, diameter 265 mm, 4-piston fixed caliper
Brake-pad material, front	Organic material
Brake disc thickness, front	5.0 mm, when new 4.5 mm, Wear limit
Play of brake controls (Front brake)	3.6...16.5 mm, at the 40 mm point

198 TECHNICAL DATA

Rear wheel

Type of rear brake	Single-disc brake, diameter 265 mm, 1-piston floating caliper
Brake-pad material, rear	Sintered metal
Brake disc thickness, rear	5.0 mm, when new 4.5 mm, Wear limit
Play of brake controls (Rear brake)	3.6...16.5 mm, at the 40 mm point

WHEELS AND TYRES

Recommended tyre combinations	Your authorised BMW Motorrad retailer will be happy to supply an up-to-date list of the approved wheel/tyre combinations.
Speed category, front/rear tyres	S, required at least: 180 km/h

Front wheel

Front-wheel type	Aluminium cast wheel
Front-wheel rim size	3.50" x 15"
Tyre designation, front	120/70-15
Load index, front tyre	56
Permissible front-wheel imbalance	max 5 g

Rear wheel

Rear-wheel type	Aluminium cast wheel
Rear wheel rim size	4.25" x 14"
Tyre designation, rear	150/70-14
Load index, rear tyre	66
Permissible rear-wheel imbalance	max 5 g

Tyre pressure

Tyre pressure, front	2.2 bar, One-up, tyre cold 2.4 bar, Two-up mode with loading; tyre cold
Tyre pressure, rear	2.4 bar, One-up, tyre cold 2.6 bar, Two-up mode with loading; tyre cold

ELECTRICAL SYSTEM

Electrical rating of on-board sockets	max 10 A, Total for all sockets
---------------------------------------	---------------------------------

Battery

Battery type	AGM, maintenance-free
Battery rated voltage	12 V
Battery rated capacity	9 Ah

Spark plugs

Spark plugs, manufacturer and designation	NGK LMAR8J-9E
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200 TECHNICAL DATA

Lighting

Bulbs for the low-beam headlight	LED
Bulb for high-beam headlight	LED
Bulb for parking light	LED
—with daytime riding light ^{OE}	LED
Bulbs for turn indicators	LED
Bulb for tail light/brake light	LED
Light source for the number plate light	W5W / 12 V / 5 W

Fuses

Main fuse	30 A, Voltage regulator
Fuse 1	Not used
Fuse 2	7.5 A, Diagnostic socket, ignition lock, Keyless Ride, anti-theft alarm
Fuse 3	7.5 A, Multifunction switch, left, tail light, helmet compartment lighting, storage compartment lock
Fuse 4	4 A, Brake light switch
Fuse 5	4 A, Fuel pump relay
Fuse 6	7.5 A, Fan relay
Fuse 7	7.5 A, Ignition coil, fuel injector, tank vent valve
Fuse 8	Not used

ANTI-THEFT ALARM

—with anti-theft alarm (DWA)^{OE}

Activation time on arming	approx. 30 s
Alarm duration	approx. 26 s
Activation time between two alarms	approx. 10 s
Battery type (for control unit)	CR 123 A

KEYLESS RIDE

Range of the Keyless Ride radio-operated key	approx. 1 m
Battery type (For Keyless Ride radio-operated key)	CR 2032

DIMENSIONS

Length of motorcycle	2210 mm, over number-plate carrier
Height of motorcycle	1437 mm, over windscreen, at DIN vehicle kerb weight
Width of motorcycle	835 mm, with mirrors 781 mm, without mounted parts
Height of rider's seat	775 mm, without rider at DIN unladen weight
Rider's inside-leg arc, heel to heel	1762 mm, without rider at DIN unladen weight

202 TECHNICAL DATA

WEIGHTS

Vehicle kerb weight	214 kg, DIN vehicle kerb weight, ready for road, 90 % load of fuel, without optional extras (OE)
Wheel load, rear, at unladen weight	120 kg
Permissible gross vehicle weight	415 kg
Maximum payload	201 kg

PERFORMANCE FIGURES

Starting capability on uphill gradients (at permitted total weight)	max 32 %
Top speed	139 km/h
—with topcase Light ^{OA}	130 km/h

SERVICE

14

REPORTING SAFETY-RELEVANT DEFECTS	206
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REPORTING SAFETY-RELEVANT DEFECTS

—with Canada export^{NV}

If you think that your motorcycle has a fault which may cause an accident, injury or death, you must inform the NHTSA (National Highway Traffic Safety Administration) immediately and BMW of North America, LLC.

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

You can contact the NHTSA by calling the Vehicle Safety hotline on 1-888-327-4236 (teletypewriter TTY for the hearing impaired: 1-800-424-9153) for free, by visiting the website at [http:// www.safercar.gov](http://www.safercar.gov) or by writing to Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. Further information on vehicle safety is available at [http:// www.safercar.gov](http://www.safercar.gov).

Canadian customers who wish to report a safety-related defect to Transport Canada, Defect Investigations and Recalls can call the toll-free hotline 1-800-333-0510. You can also obtain other information about motor vehicle safety from [http:// www.tc.gc.ca/roadsafety](http://www.tc.gc.ca/roadsafety).

RECYCLING

Disposal of an EOL vehicle

BMW Motorrad recommends disposing of a vehicle that has reached the end of its useful life by taking it to a manufacturer-designated receiving centre for EOL vehicles.

In general, the laws of the country in question apply for receiving and recycling of EOL vehicles. Information about recycling and sustainability can be viewed on the country-specific websites of the manufacturer. Additional information can be obtained on request from your authorised BMW Motorrad retailer or another qualified service partner, or from a specialist workshop.

Disposal of the rider's manual

—with France export^{NV}



Dispose of this rider's manual by depositing it in the container provided for the purpose.

BMW MOTORRAD SERVICE

BMW Motorrad has an extensive retailer network in place to look after you and your Scooter in more than 100 countries. Authorised BMW Motorrad retailers have the technical information and the technical know-how to carry out reliably all preventive maintenance and repair work on your BMW Scooter.

You can locate the nearest authorised BMW Motorrad retailer by visiting our website:

bmw-motorrad.com



WARNING

Maintenance and repair work not in compliance with correct procedure

Risk of accident due to subsequent damage

- BMW Motorrad recommends you have all the associated work on your Scooter carried out by a specialist workshop, preferably an authorised BMW Motorrad Retailer.

In order to help ensure that your BMW Scooter is always in optimum condition, BMW Motorrad recommends compliance with the maintenance intervals specified for your Scooter.

Have all maintenance and repair work carried out confirmed in the "Service" chapter in this manual. Evidence of regular preventive maintenance is essential for generous treatment of claims submitted after the warranty period has expired.

Your authorised BMW Motorrad retailer can provide information on BMW Motorrad services and the work undertaken as part of each service.

BMW MOTORRAD SERVICE HISTORY

Entries

Maintenance work that has been carried out is entered in the proof of maintenance. The entries are like a Service Booklet and provide proof of regular maintenance.

When an entry is made in the electronic service booklet of the vehicle, service-relevant data is saved in the central IT systems of BMW AG, Munich, Germany.

If there is a change in vehicle ownership, the data saved in the electronic service booklet can also be viewed by the new vehicle owner. A BMW Motorrad retailer or a specialist workshop can also view data that is stored in the electronic service booklet.

Objection

The vehicle owner can object to entries being made by the BMW Motorrad retailer or a specialist workshop in the electronic service booklet along with the corresponding storage of data in the vehicle and transfer of data to the vehicle manufacturer for the period of time that they are the vehicle owner. In this instance, no entry is made in the electronic service booklet of the vehicle.

BMW MOTORRAD MOBILITY SERVICES

If you have a new BMW motorcycle, you are protected by various of the BMW Motorrad mobility services in the event of a breakdown (e.g. BMW breakdown assistance, breakdown recovery, vehicle transport). Find out from your authorised BMW Motorrad Retailer which mobility services are offered.

MAINTENANCE WORK

BMW pre-delivery check

Your authorised BMW Motorrad Retailer conducts the BMW pre-delivery check before handing over the vehicle to you.

BMW Running-in Check

The BMW running-in check must be carried out between 500 km and 1200 km.

BMW Motorrad Service

The BMW Motorrad Service is carried out once a year; the extent of servicing can vary, depending on the age of the vehicle and the distance it has covered. Your authorised BMW Motorrad retailer confirms that the service work has been carried out and enters the date when the next service will be due.

Riders who cover long distances in a year might have to bring in their vehicles for service before the next scheduled date. It is to allow for these cases that a maximum odometer reading is entered as well in the confirmation of service. Servicing has to be brought forward if this odometer reading is reached before the next scheduled date for the service.

The maintenance tasks necessary for your vehicle are set out in the maintenance schedule below:

MAINTENANCE SCHEDULE

	500-1 200 km 300-750 mls	10 000 km 6 000 mls	20 000 km 12 000 mls	30 000 km 18 000 mls	40 000 km 24 000 mls	50 000 km 30 000 mls	60 000 km 36 000 mls	70 000 km 42 000 mls	80 000 km 48 000 mls	90 000 km 54 000 mls	100 000 km 60 000 mls	12 months	24 months
①	X												
②		X	X	X	X	X	X	X	X	X	X	X ^a	
③		X	X	X	X	X	X	X	X	X	X	X ^a	
④		X	X	X	X	X	X	X	X	X	X		
⑤		X	X	X	X	X	X	X	X	X	X		
⑥		X	X	X	X	X	X	X	X	X	X		
⑦			X		X		X		X		X		
⑧			X		X		X		X		X		
⑨			X		X		X		X		X		
⑩			X		X		X		X		X		
⑪			X		X		X		X		X		
⑫					X				X				
⑬												X ^b	X ^b

- 1 BMW Motorrad running-in check (including oil change and oil filter change)
- 2 BMW Motorrad Service, standard scope
- 3 Engine-oil change, with filter
- 4 Clean/check filter for CVT
- 5 Replace air-filter element
- 6 Check steering-head bearing
- 7 Replace CVT belt and roller weights with slider shoes
- 8 Replace all spark plugs

- 9 Check valve clearances
 - 10 Replace mounting for rubber mounts
 - 11 Oil change in the telescopic forks
 - 12 Check clutch (clutch removed)
 - 13 Change brake fluid, entire system
- ^a annually or every 10,000 km (whichever comes first)
- ^b for the first time after one year, then every two years

BMW RUNNING-IN CHECK

BMW Motorrad running-in check

The tasks included in the BMW Motorrad running-in check are listed below. The actual scope of work applicable for your vehicle may vary.

- Performing vehicle test with BMW Motorrad diagnostic system
- Setting service-due date and countdown distance
- Checking front/rear brake-fluid level
- Checking coolant level
- Checking tyre pressures and tread depth
- Checking steering-head bearing
- Check the lights and signalling equipment
- Function test, engine start suppression
- Final inspection and check of roadworthiness
- Performing vehicle test with BMW Motorrad diagnostic system
- BMW Confirm BMW service in on-board literature

MAINTENANCE CONFIRMATIONS

BMW Motorrad Service standard scope

The tasks included in the BMW Motorrad Service standard scope are listed below. The actual scope of maintenance work applicable for your vehicle may vary.

- Checking battery state of charge
- Performing vehicle test with BMW Motorrad diagnosis system
- Visual inspection of the brake lines, brake hoses and connections
- Checking brake fluid level, front and rear
- Checking front brake pads and brake discs for wear
- Checking rear brake pads and brake disc for wear
- Checking steering-head bearing
- Checking coolant level
- Checking tyre pressure and tread depth
- Check lighting and signalling system
- Function test, engine start suppression
- Final inspection and check for road safety
- Set service date and remaining distance
- Confirming BMW Motorrad service in on-board literature

BMW pre-delivery check

carried out

on_____

Stamp, signature

BMW Running-in Check

carried out

on_____

odometer reading_____

Next service

at the latest

on_____

or, when reached earlier

odometer reading_____

Stamp, signature

BMW Motorrad service

carried out

on _____

odometer reading _____

Next service

at the latest

on _____

or, when reached earlier

odometer reading _____

Work performed

	Yes	No
BMW Motorrad service	☐	☐
Engine oil change with filter	☐	☐
Cleaning CVT dust filter, front	☐	☐
Replacing the air filter element	☐	☐
Checking steering-head bearing	☐	☐
Replacing the CVT belt	☐	☐
Renewing all spark plugs	☐	☐
Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
Changing the oil in the telescopic fork	☐	☐
Checking clutch	☐	☐
Changing the brake fluid in the entire system	☐	☐

Notes

Stamp, signature

BMW Motorrad service

carried out

on _____

odometer reading _____

Next service

at the latest

on _____

or, when reached earlier

odometer reading _____

Work performed

	Yes	No
BMW Motorrad service	☐	☐
Engine oil change with filter	☐	☐
Cleaning CVT dust filter, front	☐	☐
Replacing the air filter element	☐	☐
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Renewing all spark plugs	☐	☐
Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
Changing the oil in the telescopic fork	☐	☐
Checking clutch	☐	☐
Changing the brake fluid in the entire system	☐	☐

Notes

Stamp, signature

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Next service

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or, when reached earlier

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Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
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Stamp, signature

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at the latest

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Renewing all spark plugs	☐	☐
Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
Changing the oil in the telescopic fork	☐	☐
Checking clutch	☐	☐
Changing the brake fluid in the entire system	☐	☐

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Stamp, signature

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odometer reading _____

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at the latest

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Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
Changing the oil in the telescopic fork	☐	☐
Checking clutch	☐	☐
Changing the brake fluid in the entire system	☐	☐

Notes

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BMW Motorrad service

carried out

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odometer reading _____

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at the latest

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Replacing the CVT belt	☐	☐
Renewing all spark plugs	☐	☐
Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
Changing the oil in the telescopic fork	☐	☐
Checking clutch	☐	☐
Changing the brake fluid in the entire system	☐	☐

Notes

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BMW Motorrad service

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odometer reading _____

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at the latest

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or, when reached earlier

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Replacing the CVT belt	☐	☐
Renewing all spark plugs	☐	☐
Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
Changing the oil in the telescopic fork	☐	☐
Checking clutch	☐	☐
Changing the brake fluid in the entire system	☐	☐

Notes

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or, when reached earlier

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Checking steering-head bearing	☐	☐
Replacing the CVT belt	☐	☐
Renewing all spark plugs	☐	☐
Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
Changing the oil in the telescopic fork	☐	☐
Checking clutch	☐	☐
Changing the brake fluid in the entire system	☐	☐

Notes

Stamp, signature

BMW Motorrad service

carried out

on _____

odometer reading _____

Next service

at the latest

on _____

or, when reached earlier

odometer reading _____

Work performed

	Yes	No
BMW Motorrad service	☐	☐
Engine oil change with filter	☐	☐
Cleaning CVT dust filter, front	☐	☐
Replacing the air filter element	☐	☐
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Replacing the CVT belt	☐	☐
Renewing all spark plugs	☐	☐
Checking valve clearance	☐	☐
Replacing fixture for rubber mount	☐	☐
Changing the oil in the telescopic fork	☐	☐
Checking clutch	☐	☐
Changing the brake fluid in the entire system	☐	☐

Notes

Stamp, signature

SERVICE CONFIRMATIONS

The table is intended as a record of maintenance and repair work, the installation of optional accessories and, if appropriate, technical campaign work.

[illegible]

DECLARATION OF CONFORMITY	227
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CERTIFICATE FOR KEYLESS RIDE	235
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DECLARATION OF CONFORMITY

Simplified EU Declaration of Conformity under RED (2014/53/EU).



Vehicular immobilizer system transceiver EWS4

Technical information

Frequency band: 134 kHz
Transponder: TMS37145 / TypeDST80, TMS3705 Transponder Base Station IC
Output Power: 50 dBμV/m

Manufacturer

BECOM Electronics GmbH
Technikerstraße 1, A-7442
Hochstraß, Austria

Hereby, BECOM Electronics GmbH declares that the vehicular immobilizer system transceiver EWS4 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet ad-

dress:

bmw-motorrad.com/certification

Keyless Ride HUF5750

Technical information

Frequency band: 434,42 MHz
Transmission Power: 10 mW

Manufacturer

Huf Hüsbeck & Fürst GmbH & Co. KG
Steege Str. 17, 42551 Velbert, Germany

Hereby, Huf Hüsbeck & Fürst GmbH & Co. KG declares that the radio equipment type HUF5750 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
bmw-motorrad.com/certification

Keyless Ride HUF8465

Technical information

Frequency band: 134,45 kHz
Output Power: 42 dBμV/m

Manufacturer

Huf Hüsbeck & Fürst GmbH & Co. KG
Steege Str. 17, 42551 Velbert, Germany

Hereby, Huf Hüsbeck & Fürst GmbH & Co. KG declares that the radio equipment type HUF8465 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

bmw-motorrad.com/certification

Anti-theft alarm (DWA)

TXBMWMR

Technical information

Frequency band: 433.05 MHz - 434.79 MHz

Output power: 10 mW e.r.p.

Manufacturer

Meta System S.p.A.

Via Galimberti 5, 42124 Reggio Emilia, Italy

Hereby, Meta System S.p.A. declares that the radio equipment type TXBMWMR is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

bmw-motorrad.com/certification

Tyre pressure control (RDC) BC5A4

Technical information

Frequency band: 433.895 MHz - 433.945 MHz

Output Power: < 10 mW e.r.p.

Manufacturer

Schrader Electronics Ltd.
Technology Park, N. Ireland
BT41 1QS Antrim, United Kingdom

Hereby, Schrader Electronics Ltd. declares that the radio equipment type BC5A4 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

bmw-motorrad.com/certification

Wireless charging device

WCA Motorrad-Ladestauach

Technical information

Frequency band: 110 kHz - 115 kHz

Output power: < 6 W

Manufacturer

Bury Sp. z o.o.
ul. Wojska Polskiego 4, 39-300 Mielec, Poland

Hereby, Bury Sp. z o.o. declares that the radio equipment type WCA Motorrad-Ladestufach is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

bmw-motorrad.com/certification

TFT instrument cluster ICC6.5in

Technical information

BT operating freq. Range:

2402 MHz - 2480 MHz

BT version: 4.2 (no BTLE)

BT output power: < 4 dBm

WLAN operating freq. Range:

2412 MHz - 2462 MHz

WLAN standards: IEEE

802.11 b/g/n

WLAN output power:

< 20 dBm

Manufacturer

Robert Bosch GmbH

Robert Bosch Str. 200, 31139

Hildesheim, Germany

Hereby, Robert Bosch GmbH declares that the radio equipment type ICC6.5in is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

bmw-motorrad.com/certification

TFT instrument cluster ICC10in

Technical information

The ICC10in can operate in one of two operating modes:

1. Normal mode, with Bluetooth and WLAN on, and
2. Radio off mode (only available during vehicle manufacturing).

BT operating freq. Range:

2402 MHz - 2480 MHz

BT version: 4.2 (no BTLE)

BT output power: < + 4 dBm
(internal antenna)

WLAN operating freq. Range:

2402 MHz - 2472 MHz

WLAN standards: IEEE

802.11 b/g/n

WLAN output power:

< + 14 dBm (internal antenna)

Manufacturer

Robert Bosch GmbH

Robert-Bosch-Platz 1, 70839

Gerlingen, Germany

Hereby, Robert Bosch GmbH declares that the radio equipment type ICC10in is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following in-

230 APPENDIX

ternet address:

bmw-motorrad.com/certification

Intelligent emergency call TL1P22

Technical information

Frequency band: 832 MHz -
862 MHz

Radiated Power [TRP]: 23 dBm

Frequency band: 880 MHz -
915 MHz

Radiated Power [TRP]: 33 dBm

Frequency band: 1710 MHz -
1785 MHz

Radiated Power [TRP]: 30 dBm

Frequency band: 1920 MHz -
1980 MHz

Radiated Power [TRP]: 24 dBm

Frequency band: 2500 MHz -
2570 MHz

Radiated Power [TRP]: 23 dBm

Frequency band: 2570 MHz -
2620 MHz

Radiated Power [TRP]: 23 dBm

GNSS:

Frequency band: 1559 MHz-
1610 MHz

Manufacturer

LG ELECTRONICS INC.

10, Magokjungang 10-ro,
Gangseo-gu Seoul, Republic of
Korea

Hereby, LG ELECTRONICS INC.
declares that the radio equip-
ment type TL1P22 is in com-
pliance with Directive 2014/
53/EU. The full text of the EU
declaration of conformity is
available at the following in-
ternet address:

**bmw-motorrad.com/certifica-
tion**

Mid Range Radar

MRRRe14FCR

Technical information

Frequency band: 76 GHz -
77 GHz

Nominal radiated power: e.i.r.p.
(peak detector): 32 dBm

Nominal radiated power:e.i.r.p.
(RMS detector): 27 dBm

Manufacturer

Robert Bosch GmbH
Robert-Bosch-Platz 1, 70839
Gerlingen, Germany

Hereby, Robert Bosch GmbH
declares that the radio
equipment type MRRRe14FCR
is in compliance with Directive
2014/53/EU. The full text
of the EU declaration of
conformity is available at the
following internet address:

**bmw-motorrad.com/certifica-
tion**

Audio system MCR001**Manufacturer**

ALPS ALPINE CO., LTD.

Hereby, ALPS ALPINE CO., LTD. declares that the radio equipment type MCR001 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

bmw-motorrad.com/certification

Declaration of Conformity

Radio equipment electronic immobiliser (EWS4)

For all countries without EU

Technical information

Frequency Band: 134 kHz
(Transponder: TMS37145 /
Type DST80, TMS3705
Transponder Base Station IC)
Output Power: 50 dBμV/m

Manufacturer and Address

Manufacturer:
BECOM Electronics GmbH
Address: Technikerstraße 1,
A-7442 Hochstraß

Argentina

 **RAMATEL**
H-25246

Australia/New Zealand



R-NZ

Brunei



TA No: DTA-007061

United Arab Emirates

TRA
REGISTERED No:
ER89926/20

DEALER No:
DA96133I20

Philippiens



NTC

Type Approved
No.: ESD-RCE-2023298

South Africa



TA-2020/6131

APPROVED

India

ETA-SD-20200905860

Belarus



Indonesia

72790/SDPPI/2021
13349



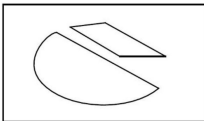
Dilarang melakukan perubahan
Spesifikasi yang dapat
Menimbulkan gangguan fisik
dan/atau elektromagnetik
terhadap lingkungan sekitarnya

Taiwan



低功 電波 射性電機管 辦法
第十二條 經型式認證合格之低
功率射頻電 機，非經許可，公
司、商號或使用者均不得擅 自變
更頻率、加大功率或變更原設計
之特性及 功能。第十四條 低功
率射頻電機之使用不 得影響飛航
安全及干擾合法通信；經發現有
干 擾現象時，應立即停用，並改
善至無干擾時方 得繼續使用。前
項合法通信，指依電信法規定作
業之無線電 通信。

Paraguay



CONATEL

NR: 2020-11-I-0834

Malaysia



RFCL/47A/0920/S(20-3358)

Singapore

Complies with
IMDA Standards
N3504-20

Israel

מספר אישור אלחוטי של משרד התקשורת הוא
51-74908
אסור להחליף את האנטנה המקורית של המכשיר
ולא
לעשות בו כל שינוי טכני אחר

United States (USA)

Contains FCC ID:

ODE-MREWS5012

FCC § 15.19 Labelling requirements

This device complies with part 15 of the FCC Rules and Industry Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

FCC § 15.21 Information to user

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

RF Exposure Requirements

To comply with FCC RF exposure compliance requirements, the device must be installed to provide a separation distance of at least 20 cm from all persons.

Serbia



P1620118300

Canada

Contains IC:

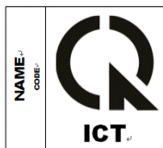
10430A-MREWS5012

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Vietnam



A1109091120AF04A3

Certifications

BMW Keyless Ride ID Device



USA, Canada:

Product name: BMW Keyless Ride ID
Device FCC ID: YGOHUF5750
IC: 4008C-HUF5750



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

Canada:

Operation is subject to the following two conditions:

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

USA:

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

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

Argentina:

CNC COMISIÓN NACIONAL
DE COMUNICACIONES

H-17115

Declaration Of Conformity

We declare under our responsibility that the product

BMW Keyless Ride ID Device (Model: HUF5750)

complies with the appropriate essential requirements of the article 3 of the R&TIE and the other relevant provisions, when used for its intended purpose. Applied Standards:

1. Health and safety requirements contained in article 3 (1) a)
 - EN 60950-1:2006+A11:2009+A1:2010+A12:2011; Information technology equipment-Safety
2. Protection requirements with respect to electromagnetic compatibility article 3 (1) b)
 - EN 301 489-1 (V1 .9.2, 09/2011), Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
 - EN 301 489-3 (V1.4.1, 08/2002) Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for short range devices (SRD) operating on frequencies between 9 kHz and 40 GHz
3. Means of the efficient use of the radio frequency spectrum article 3 (2)
 - EN 300 220-1 & -2 (V2.4.1, 05/2012), electromagnetic compatibility and radio spectrum matters (ERM); Short range devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TIE directive

The product is labeled with the CE marking:



Velbert, October 15th, 2013

A handwritten signature in black ink, appearing to read 'Ben A. Müller', is written over a horizontal line.

Benjamin A. Müller

Product Development Systems
Car Access and Immobilization -
Electronics Huf Hülsbeck & Fürst
GmbH & Co. KG
Steeger Straße 17, D-42551
Velbert

Declaration of Conformity

Radio equipment TFT instrument cluster

For all Countries without EU

Technical information

BT operating frq. Range:
2402 – 2480 MHz
BT version: 4.2 (no BTLE)
BT output power: < 4 dBm
WLAN operating frq. Range:
2412 – 2462 MHz
WLAN standards:
IEEE 802.11 b/g/n
WLAN output power: < 20 dBm

Manufacturer and Address

Manufacturer:
Robert Bosch GmbH
Address: Robert Bosch Str. 200,
31139 Hildesheim, Germany

Turkey

Robert Bosch GmbH, ICC6.5in
tipi telsiz sisteminin 2014/53/EU
nolu yönetmeliğe uygun
olduğunu beyan eder. AB
Uygunluk Beyanı'nın tam metni,
aşağıdaki internet adresinden
görülebilir: <http://cert.bosch-carmultimedia.net>

Argentina

 **RAMATEL**

C-24711

Brazil

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

Canada

This device complies with Industry Canada's licence-exempt RSSs and part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Korea

적합성평가에 관한 고시

R-CMM-RBR-ICC65IN

상호 : Robert Bosch GmbH모델

명 : ICC6.5in

기자재명칭 : 특정소출력 무선기기
(무선데이터통신시스템용 무선기기)

제조사 및 제조국가 : Robert

Bosch GmbH / 포르투갈

제조년월 : 제조년월로 표기

이 기기는 업무용 환경에서 사용할

목적으로 적합성평가를 받은 기기

로서 가정용 환경에

서 사용하는 경우 전파간섭의 우려가 있습니다.

Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Taiwan, Republic of

根據 NCC 低功率電波輻射性電機
管理辦法 規定: 第十二條

經型式認證合格之低功率射頻電機, 非經許可, 公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信; 經發現有干擾現象時, 應立即停用, 並改善至無干擾時方得繼續使用。

前項合法通信, 指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Thailand

เครื่องโทรคมนาคมและอุปกรณ์นี้

มีความสอดคล้องตามข้อกำหนดของ กทช.

(This telecommunication equipments is in compliance with NTC requirements)

United States (USA)

This device complies with Industry Canada's licence-exempt RSSs and part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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

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

Errors and omissions excepted.

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80788 Munich, Germany

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Original rider's manual, printed in Germany.

Important data for refuelling:

Fuel

Recommended fuel grade	Premium unleaded (maximum 15 % ethanol, E15) 95 ROZ/RON min 90 AKI
	 Regular unleaded (maximum 15 % ethanol, E15)  91 ROZ/RON min 87 AKI
Usable fuel capacity	approx. 12.8 l
Reserve volume	approx. 3 l
Tyre pressure	
Tyre pressure, front	2.2 bar, One-up, tyre cold 2.4 bar, Two-up mode with loading; tyre cold
Tyre pressure, rear	2.4 bar, One-up, tyre cold 2.6 bar, Two-up mode with loading; tyre cold

For further information on all aspects of your vehicle, visit: [bmw-motorrad.com](https://www.bmw-motorrad.com)

