Owner's Manual
for Vehicle

The Ultimate
Driving Machine

Contents
A - Z

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

525i
530i
545i

Owner's Manual for Vehicle

Congratulations, and thank you for choosing a BMW.

Thorough familiarity with your vehicle will provide you with enhanced control and security when you drive it. We therefore have this request:

Please take the time to read this Owner's Manual and familiarize yourself with the information that we have compiled for you before starting off in your new vehicle. It contains important data and instructions intended to assist you in gaining maximum use and satisfaction from your BMW's unique range of technical features. The manual also contains information on maintenance designed to enhance operating safety and contribute to maintaining the value of your BMW throughout an extended service life.

This Owner's Manual should be considered a permanent part of this vehicle. It should stay with the vehicle when sold to provide the next owner with important operating, safety and maintenance information.

This manual is supplemented by a Service and Warranty Information Booklet for US models or a Warranty and Service Guide Booklet for Canadian models.
We wish you an enjoyable driving experience.

BMW AG

BMW recommends Castrol

© 2004 Bayerische Motoren Werke
Aktiengesellschaft
Munich, Germany
Reprinting, including excerpts,
only with the written consent of
BMW AG, Munich.
Order No. 01 41 0 158 518
US-English VIII/04, 09 04 500
Printed in Germany
Printed on environmentally friendly paper,
bleached without chlorine, suitable for recycling.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Contents

The fastest way to find specific topics is to use the index on page 202.

Using this Owner's Manual
4 Notes
Reporting safety defects 7

At a glance
10 Cockpit
16 Control Center
22 Voice command system

Controls
28 Opening and closing
38 Adjustments
47 Transporting children safely
51 Driving
65 Everything under control
76 Technology for comfort, convenience and safety
87 Lamps
90 A congenial climate
96 Practical interior accessories

Driving tips
106 Things to remember when driving

Navigation
114 Starting navigation system
115 Destination entry
124 Destination guidance
128 What to do if ...

Entertainment
132 On/off and tone
138 Radio
145 CD player and CD changer

Communications
152 Telephoning
161 TeleService, BMW Assist

Mobility
168 Refueling
170 Wheels and tires
176 Under the hood
180 Maintenance
182 Replacing components
189 Giving and receiving assistance

Reference
196 Technical data
199 Short commands of voice command system
202 Everything from A to Z

Notes

Using this Owner's Manual

We have made every effort to ensure that you are able to find what you need in this Owner's Manual as quickly as possible. The fastest way to find specific topics is to refer to the detailed index at the back of the manual. If you wish to gain an initial overview of your vehicle, you will find this in the first chapter.

Should you sell your BMW some day, please remember to hand over the Owner's Manual as well; it is an important component of your vehicle.

Additional sources of information

Should you have any other questions, your BMW center will be glad to advise you at any time.

You can find information on BMW, e.g. technology, on the Internet at www.bmwusa.com.

Symbols used

Indicates precautions that must be followed precisely in order to avoid the possibility of personal injury and serious damage to the vehicle.

Indicates information that will assist you in gaining the optimum benefit from your vehicle and enable you to care more effectively for your vehicle.

Refers to measures that can be taken to help protect the environment.

◀Marks the end of a specific item of information.

* Indicates special equipment, country-specific equipment and optional extras, as well as equipment and functions not yet available at the time of printing.

"..." Identifies Control Display texts used to select individual functions.

Symbols on vehicle components

Indicates that you should consult the relevant section of this Owner's Manual for information on a particular part or assembly.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

The individual vehicle

On purchasing your BMW, you have decided in favor of a model with individualized equipment and features. This Owner's Manual describes the entire array of options and equipment available with a specific BMW model.

Please bear in mind that the manual may contain information on accessories and equipment that you have not specified for your own vehicle. Sections describing options and special equipment are marked by asterisks * to assist you in identifying possible differences between the descriptions in this manual and your own vehicle's equipment.

If equipment in your BMW is not described in this Owner's Manual, please refer to the accompanying Supplementary Owner's Manuals.

Editorial notice

BMW pursues a policy of continuous, ongoing development that is conceived to ensure that our vehicles continue to embody the highest quality and safety standards combined with advanced, state-of-the-art technology. For this reason, it is possible that the features described in this Owner's Manual could differ from those on your vehicle.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

For your own safety

Maintenance and repair

Advanced technology, e.g. the use of modern materials and high-performance electronics, requires specially adapted maintenance and repair methods. Therefore, have corresponding work on your BMW carried out only by a BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel. If work is carried out improperly there is a danger of consequential damage and the related safety risks.◀

California Proposition 65 Warning

California law requires us to issue the following warning:

Engine exhaust and a wide variety of automobile components and parts, including components found in the interior furnishings in a vehicle, contain or emit chemicals known to the State of California to cause cancer and birth defects and reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
Battery posts, terminals and related accessories contain lead and lead compounds. Batteries also contain other chemicals known to the State of California to cause cancer. Wash your hands after handling. Used engine oil contains chemicals that have caused cancer in laboratory animals. Always protect your skin by washing thoroughly with soap and water.◀

Parts and accessories

For your own safety, use genuine parts and accessories approved by BMW.
When you purchase accessories tested and approved by BMW and Genuine BMW Parts, you simultaneously acquire the assurance that they have been thoroughly tested by BMW to ensure optimum performance when installed on your vehicle.
BMW warrants these parts to be free from defects in material and workmanship.
BMW will not accept any liability for damage resulting from installation of parts and accessories not approved by BMW.
BMW cannot test every product made by other manufacturers to verify if it can be used on a BMW safely and without risk to either the vehicle, its operation, or its occupants.
Genuine BMW Parts, BMW Accessories and other products approved by BMW, together with professional advice on using these items, are available from all BMW centers.
Installation and operation of non-BMW approved accessories such as alarms, radios, amplifiers, radar detectors, wheels, suspension components, brake dust shields, telephones, including operation of any portable phone from within the vehicle without using an externally mounted antenna, or transceiver equipment, for instance, CBs, walkie-talkies, ham radios or similar accessories, may cause extensive damage to the vehicle, compromise its safety, interfere with the vehicle's electrical system or affect the validity of the BMW Limited Warranty. Refer to your BMW center for additional information.◀

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any automotive repair establishment or individual using any certified automotive part.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Service and warranty

We recommend that you read this publication thoroughly.

Your BMW is covered by the following warranties:

- ▷ New Vehicle Limited Warranty
- ▷ Rust Perforation Limited Warranty
- ▷ Federal Emissions System Defect Warranty
- ▷ Federal Emissions Performance Warranty
- ▷ California Emission Control System Limited Warranty

Detailed information about these warranties is listed in the Service and Warranty Information Booklet for US models or in the Warranty and Service Guide Booklet for Canadian models.

Reporting safety defects

The following applies only to vehicles owned and operated in the US.

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying BMW of North America, LLC, P.O. Box 1227, Westwood, New Jersey 07675-1227, Telephone (800) 831-1117.

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

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

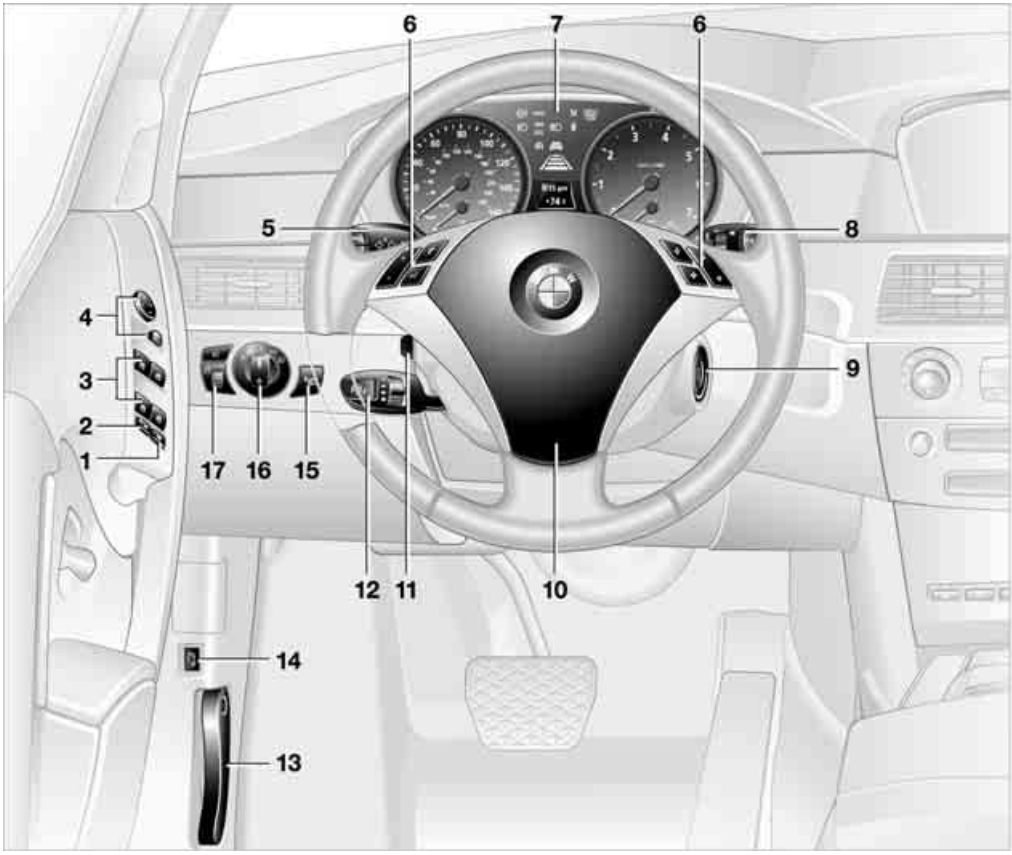
At a glance

This overview of buttons, switches and displays is intended to familiarize you with your vehicle's operating environment. The section will also assist you in becoming acquainted with the control concepts and options available for operating the various systems.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Cockpit

Around the steering wheel: controls and displays



1 Rear window blind* 97

2 Rear window safety switch 35

3 Opening and closing windows 34

4 Adjusting exterior mirrors 45

5

Turn signals 56

High beams, headlamp flasher 88

Roadside parking lamps 88

CHECK Check Control 67

BC Computer 69

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

6 Buttons on steering wheel

Telephone* 153:

- ▷ Press: accept call or terminate call
  as well as dialing if an entry has been selected from "A - Z", "Top 8", "Redial", "Received calls" or "Missed calls"
- ▷ press longer: redialing

Volume

Activating/deactivating voice command system* 22

Fast forward/reverse 132

- ▷ Radio
  Press: change radio station
  Press longer: manual search or automatic search scan
- ▷ CD
  Press: select track
  Press longer: fast forward/reverse
- ▷ Telephone*
  Press: select entry in "A - Z", "Top 8", "Redial", "Received calls" or "Missed calls"

Individually programmable* 46

Individually programmable 46

7 Instrument cluster 12

8 Windshield wipers 57

Rain sensor 57

9 Ignition lock 51

10 Horn: the entire surface

11 Steering wheel heater* 46

Steering wheel adjustment 45

12 Cruise control*: 58

Active cruise control* 59

13 Releasing hood 176

14 Opening luggage compartment lid 32

15 Head-Up Display* 84

16 Parking lamps 87

Low beams 87

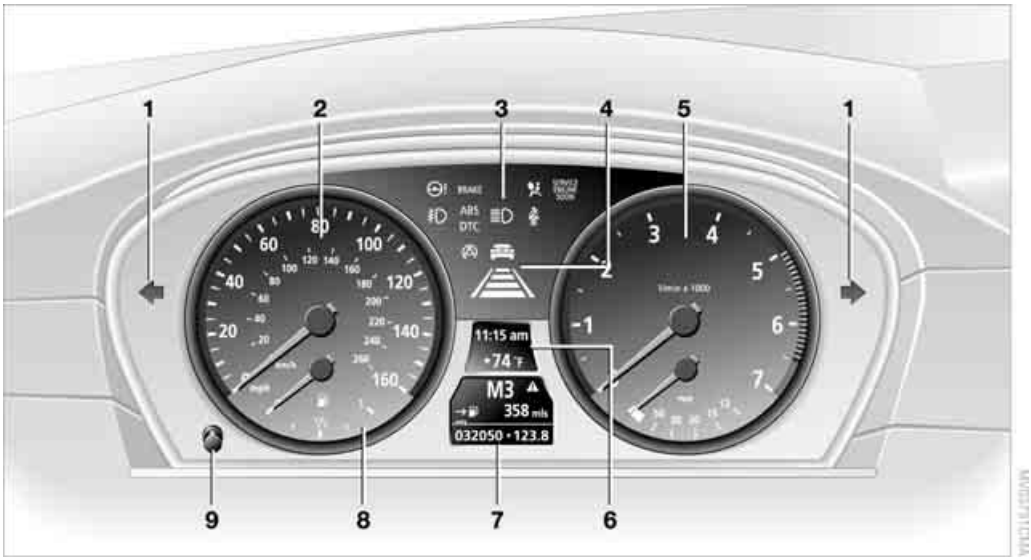
Automatic headlamp control* 87
Adaptive Head Light 88*

17 Instrument lighting 89

Fog lamps* 88

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Instrument cluster



1 Indicator lamps for turn signals 13

2 Speedometer

3 Indicator and warning lamps 13

4 Display for active cruise control* 60

5 Tachometer 65
and Energy Control 66

6 Display for
- ▷ Clock/date 65
- ▷ Outside temperature 65
- ▷ Indicator and warning lamps 68
- ▷ Speed of cruise control* 58
- ▷ Desired speed for active cruise control* 59

7 Display for
- ▷ Odometer and trip odometer 65
- ▷ Computer 69
- ▷ Date and remaining travel distance for service requirements 66
- ▷ Automatic transmission with Steptronic 55
- ▷ SMG Sequential manual transmission* 53
- ▷ ⚠ Check Control message present 67

8 Fuel gage 66

9 Resetting trip odometer 65

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Indicator and warning lamps

The concept

Indicator and warning lamps and their combinations are displayed in the display region **1** and in the display **2**. To better differentiate between malfunctions, different symbols can be shown on the display **2**.

Some lights in the display region **1** are tested for proper function by briefly lighting up during starting of the engine or when the ignition is switched on.

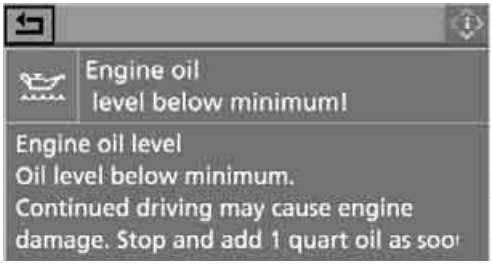
Acknowledging active functions

The following indicator lamps in the display region **1** indicate that the associated functions are activated:

	Turn signals 56
BRAKE	Handbrake engaged 52
	Handbrake engaged for Canadian models
	Front fog lamps 88
DTC	DTC Dynamic Traction Control 78
	High beams/headlamp flasher 88
	DSC Dynamic Stability Control 78

What to do in case of a malfunction

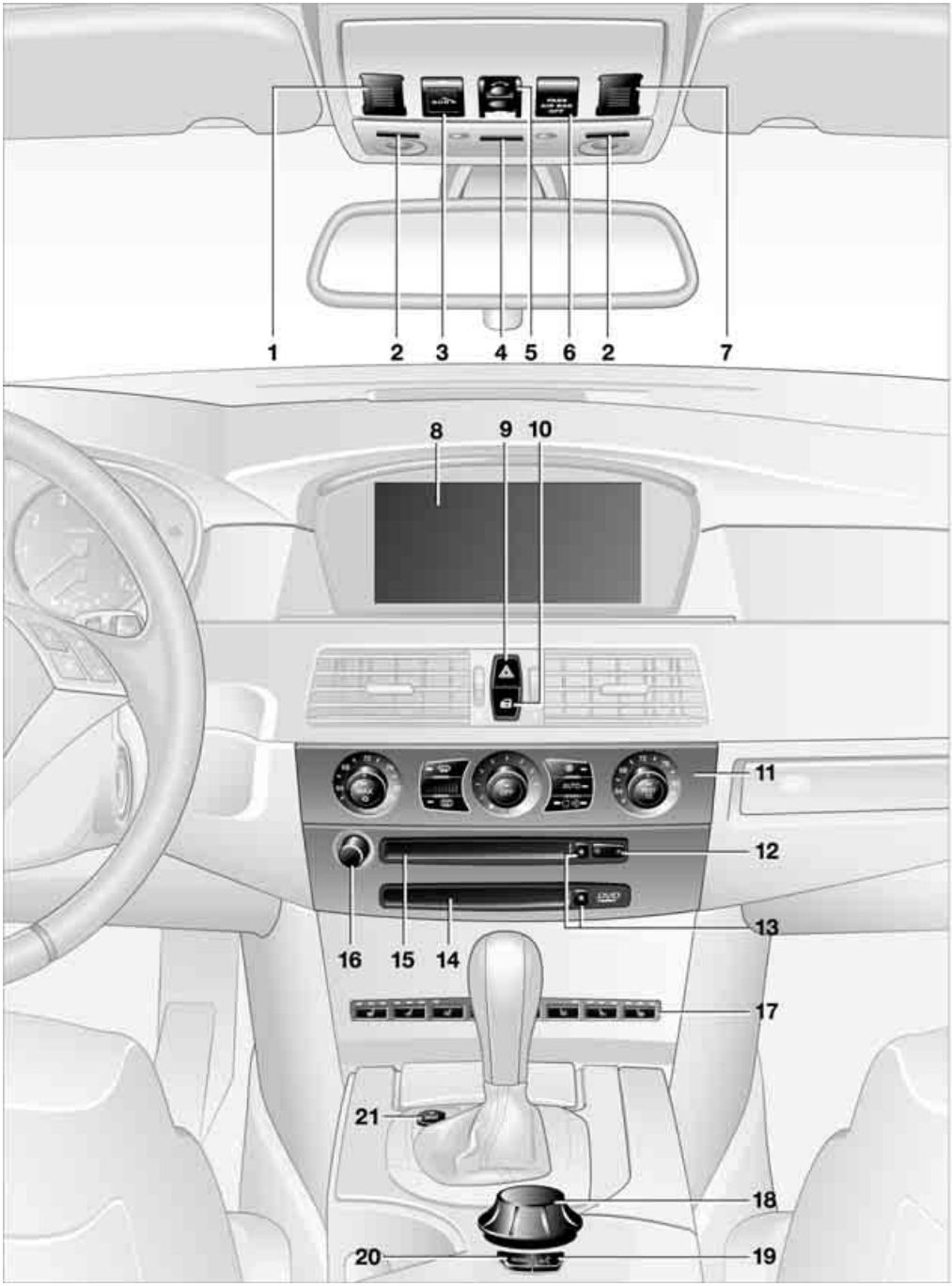
All warning lamps and indicator lamps not yet listed are also accompanied by text messages on the Control Display. These may contain more information as to the cause of a malfunction and instructions on what to do.



Sometimes, warning lamps are also accompanied by supplemental text messages on the Control Display that are shown immediately. Text messages that do not appear immediately are stored and can be displayed subsequently. For further information on displaying these messages later, refer to Check Control on page 67.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Around the center console: controls and displays



Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

1 Microphone for telephone* 153
2 Reading lamps 89
3 Initiating an emergency call* 189
4 Interior lamps 89
5 Glass sunroof, electric* 35
6 Passenger airbag status lamp 84
7 Microphone for voice command system* 22
8 Control Display 16
Displays for menu navigation
9 Hazard warning flashers
10 Central locking system 31
11 Automatic climate control 90

TEMP Temperature setting, left/right 91

AUTO Automatic air distribution and volume 91

Cooling function 91

AUC Automatic recirculated-air control 91

MAX Maximum cooling 91

REST Residual heat mode 92

OFF Switching off automatic climate control 92

Air volume 91

Defrosting windows 91

Rear window defroster 90

12 Starting search function
▷ for radio stations 132
▷ for tracks 146
13 Ejecting
▷ navigation DVD* 114
▷ audio CD 132
14 Drive for navigation DVDs* 114
15 Drive for audio CDs 132
16 Switching audio sources on/off and adjusting volume 132

17 Heated seats* 43

Active seat ventilation* 44

Active backrest width adjustment* 40

Active seat* 44

PDC Park Distance Control* 76

DTC DTC Dynamic Traction Control 78

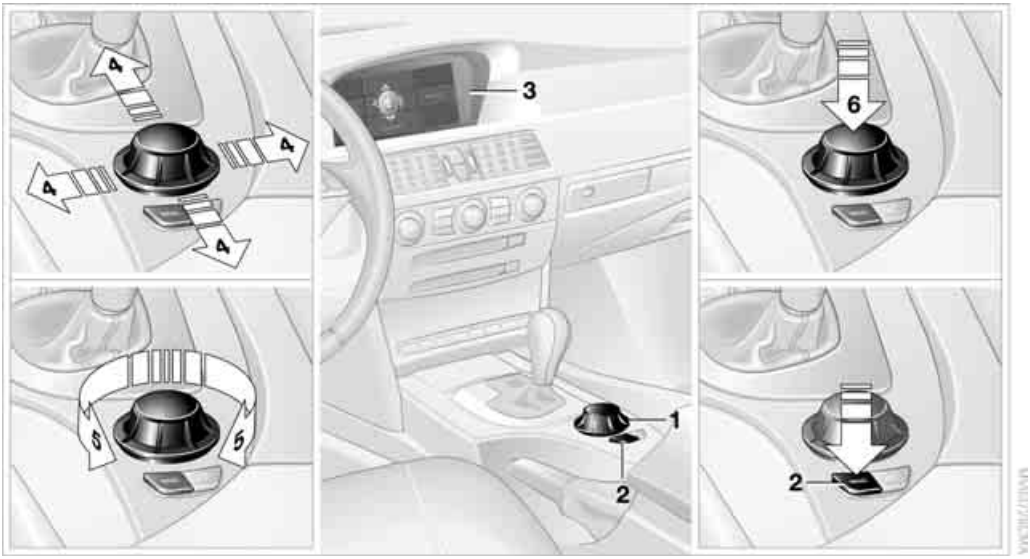
18 Controller 16
19 Activating voice command system* 22
20 Opening start menu on Control Display 17
21 Dynamic Driving Control* 54

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Control Center

The Control Center groups the functions of a large number of switches. This allows these functions to be operated from a central position. The following section provides an introduction to basic menu navigation. The control of the individual functions is described in connection with the relevant equipment.

Controls



1 Controller

2 **MENU** button: open the start menu from any menu

3 Control Display

By moving the controller **1** horizontally in four directions **4**, rotating **5** and pressing **6**, you can navigate through the menus of the Control Centers and adjust settings.

To avoid posing an unnecessary hazard due to inattention, both to your own vehicle's occupants and to other road users: never attempt to use the controls or make entries unless traffic and road conditions allow.◀

Menu overview

You can call up all the functions in the Control Center using five menu items.

Communication

- ▷ Portable phone*
- ▷ BMW Assist* or TeleService*

Navigation or onboard information

- ▷ Navigation system*
- ▷ Onboard information, e.g. for displaying the average fuel consumption.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Entertainment

- ▷ Radio
- ▷ CD player and CD changer*

Climate

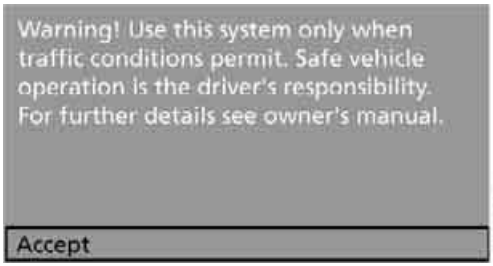
- ▷ Air distribution
- ▷ Seat air conditioning
- ▷ Independent ventilation*

i menu

- ▷ Switching off Control Display
- ▷ Tone and display settings
- ▷ Settings for traffic information
- ▷ Settings for your vehicle, e.g. for central locking, or settings for your portable phone
- ▷ Display of service requirements and dates for statutory emission and vehicle inspections.

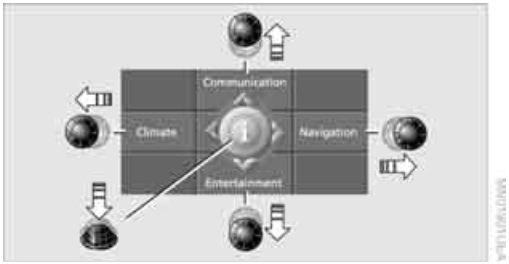
Menu navigation

As of ignition key position 1, the following message appears on the Control Display:



Confirm the message by pressing the controller; this opens the start menu.

Start menu



From the start menu, you can open four menus by moving the controller left, right, forward, or back. Pressing the controller opens the i menu.

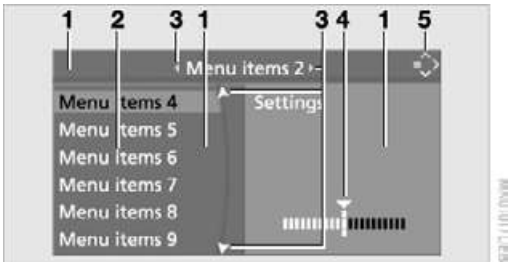
Opening start menu

Press **MENU** button.

To open the start menu from the i menu:

Press the **MENU** button twice.

Displays in menu



1. In menus, you can change fields to select the menu items they contain or to make adjustments. The current field is highlighted.
2. Menu items are usually grouped in horizontal or vertical lists.
3. In these lists, arrows indicate the possibility of accessing other menu items that are not currently visible.
4. Settings are displayed graphically, numerically, or as text.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

5 A symbol indicates the last selected menu item of the start menu:

Communication

Navigation or onboard information

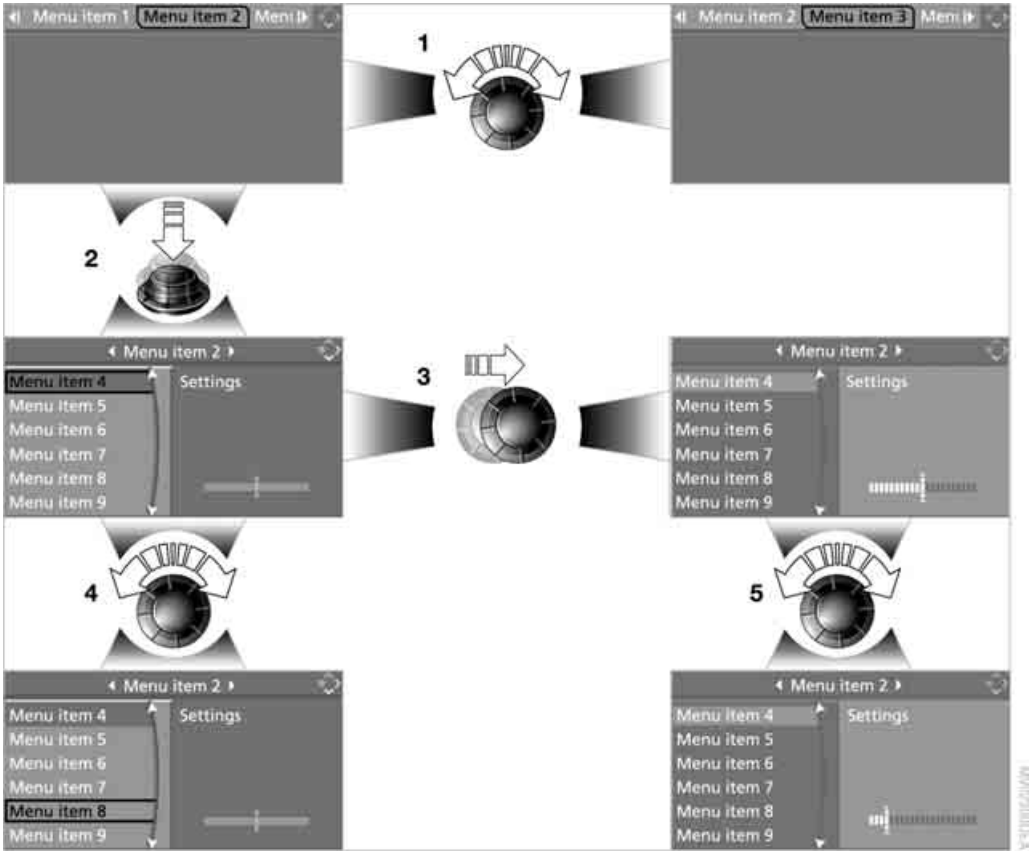
Entertainment

Climate

i menu

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Selecting menu items and making adjustments



1 Selecting individual menu items: turn the controller. The highlight moves. Menu items shown in white can be selected.

2 Activating highlighted menu items: press the controller. New menu items are displayed or a function is executed.

3 Changing the current field: move controller left, right, forward, or back and release.

4 Selecting menu items: such as **1**.

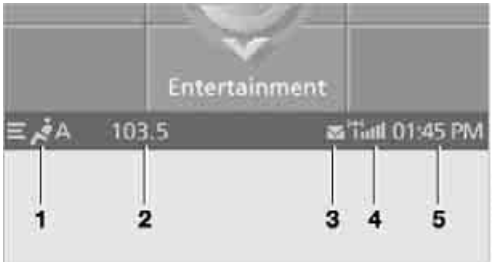
5 Adjusting settings: turn the controller. This causes the graphical display, numerical values or text displays to change. When you change into another field or another menu, the new setting is applied.

Changing directly to the last menu

Move the controller in the corresponding direction and hold it for longer than approx. 2 seconds. The menu in the selected direction is opened and the last menu item selected is displayed.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Status information



1 Display* for manual or automatic air distribution for the driver's side and passenger side

2 Display for:

- ▷ Entertainment:
  Radio, CD or
  entertainment sound output
- ▷ Telephone*:
  "Car Phone", "Portable" or no network

3 Display for:

- ▷ New entries present in "Missed calls"*
- ▷ Text message/SMS* received
- ▷ Roaming active

4 Telephone calls* or BMW Assist calls* enabled
Reception strength for telephone, depending on the portable phone

5 Time

Other displays:
The status information is temporarily hidden when there are Check Control instructions or inputs via the voice command system.

Assistance window*

Additional information can be displayed in the assistance window:

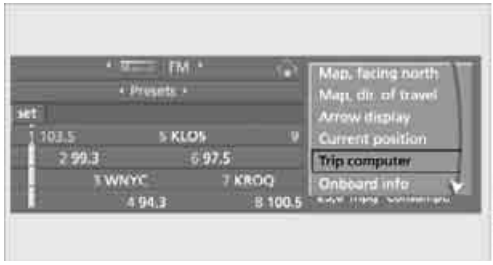
- ▷ The computer or the trip computer*
- ▷ The route map or the arrow view in vehicles with navigation system*
- ▷ The current position

Switching on assistance window:

Move the controller to the right to change to the assistance window, and press the controller.

To select the display in the assistance window:

1. Move the controller to the right to change to the assistance window, and press the controller.



2. Select menu item.
3. Press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

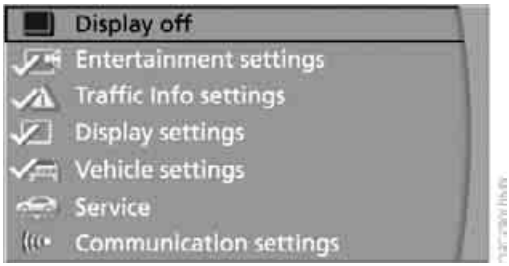
Closing assistance window:

1. Move the controller to the right to change to the assistance window, and press the controller.
2. Select "Assist. window off" and press the controller.

Switching Control Display on/off

To switch off the Control Display:

1. Press **MENU** button.
   This opens the start menu.
2. Press controller to open i menu.
3. Select "Display off" and press the controller.



To switch off the Control Display:
Press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Voice command system*

The concept

The voice command system allows you to control operation of various vehicle systems without ever removing your hands from the steering wheel.

Individual menu items on the Control Display can be spoken as commands. This frees you of having to use the controller.

The voice command system transforms your oral commands into control signals for the selected systems and provides support in the form of instructions or questions.

The voice command system uses a special microphone located in the area of the interior rearview mirror, refer to page 14.

Precondition

In the Control Center, set the language that applies for the voice command system in order to enable identification of the spoken commands. Setting the language of the Control Center, refer to page 74.

Symbol in the Owner's Manual

›...‹ Say the specified commands word for word.
››...‹‹ Indicates responses of the voice command system.

Voice commands

Activating voice command system

1. Press the button in the center console or on the steering wheel.

This symbol on the Control Display and an acoustic signal tell you that the voice command system can respond to commands.

2. Say the command.
   The text or numbers that the voice command system has registered will appear on the Control Display.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

This symbol appears on the Control Display when you can input additional voice commands.
If no other voice commands are possible, then operate the equipment using the Control Center.

Terminating or canceling voice command system

Press the button on the steering wheel or on the center console
or

›Cancel‹

Voice commands

Having the possible voice commands read aloud

You can have the system read aloud the possible voice commands related to the selected menu item on the Control Display.
For example, if you have selected "CD", the system will read aloud the possible voice commands for operating the CD player and the CD changer*:

›Options‹

Opening help

›Help‹

Using alternative voice commands

There are often a number of commands to run a function, e.g.:

›Information menu‹ or ›i menu‹

Calling up functions directly

With short commands you can carry out certain functions directly, regardless of which menu item is selected, refer to page 199.

Opening the start menu

›Main menu‹

Example: selecting a track

1. Press the button on the steering wheel or in the center console.

2. ›Entertainment‹
   The system outputs:
   ››Entertainment‹‹

3. ›CD‹
   The system outputs:
   ››CD‹‹

4. Select track, e.g.:
   ›Track 1‹
   The system outputs:
   ››Track 1‹‹

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Notes

The portable phone can also be operated by voice commands, refer to page 158.◀

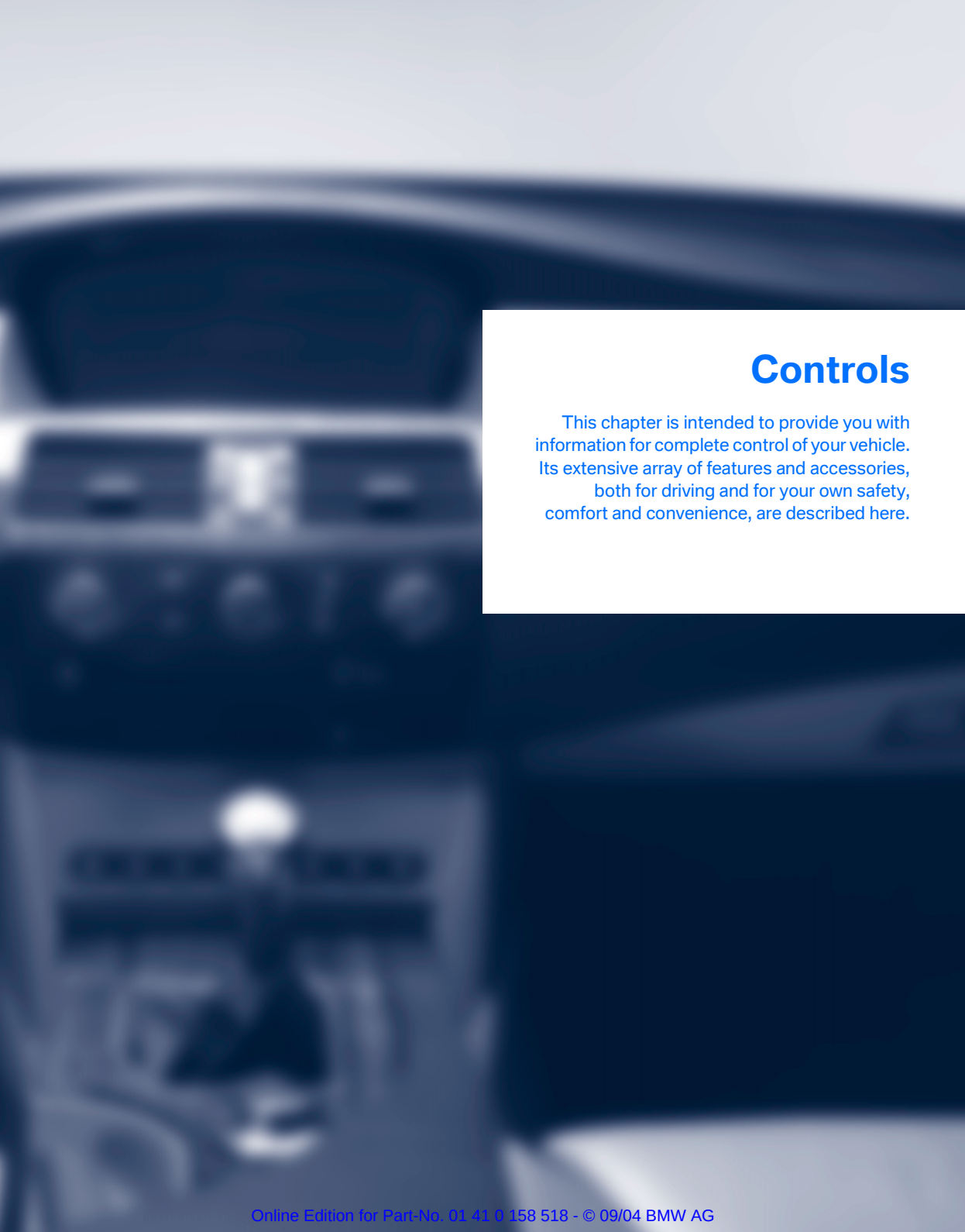
For voice commands, bear the following in mind:

- Issue the commands smoothly and at normal volume, avoiding excessive emphasis and pauses.
- Say the names of radio stations in the language of the voice command system or the customary pronunciation for the station.
- For entries in the voice-activated phone book, only use names in the language of the voice command system and no abbreviations
- Keep the doors, windows and glass sunroof closed to prevent interference from ambient noise.
- Avoid making other noise in the vehicle while speaking.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG



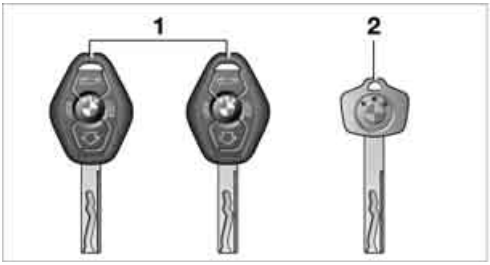
Controls

This chapter is intended to provide you with information for complete control of your vehicle. Its extensive array of features and accessories, both for driving and for your own safety, comfort and convenience, are described here.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Opening and closing

The key set



1 Every master key with remote control contains an extended-life battery as a power supply, which is charged automatically in the ignition lock as you drive. You should use each master key at least twice a year in order to maintain the charge condition. Depending on which master key is detected by the vehicle during unlocking, different settings in the vehicle are requested and executed, refer to Key Memory below.

2 Spare key for storage in a safe place, such as in your wallet.
This key does not fit in the locks of the luggage compartment lid and the glove compartment. This is an advantage when valet parking, for example. The key is not intended for regular use.

New key

Additional or replacement keys are available at your BMW center.

Key Memory

How the system functions

Doubtless you have often reflected on how great it would be if you could configure your vehicle's various adjustment settings to meet your own personal requirements. BMW has designed several freely selectable options into the vehicle during its development. You can set these as desired via the Control Center.

You can have up to four different basic settings adjusted for four different persons for the specific keys. The only requirement is that each person uses his or her own master key with remote control.

When your vehicle is unlocked with the remote control, the vehicle recognizes the individual key by means of a data exchange and makes adjustments accordingly.

Size of Key Memory

- When unlocking with the remote control, either unlock only the driver's door or the entire vehicle, refer to page 29
- Locking the vehicle after a short time or after starting off, refer to page 31
- Assigning the programmable function buttons on the steering wheel, refer to page 46
- Settings for the display on the Control Display:
  - Brightness of the Control Display, refer to page 73
  - Measuring units for consumption, travel/distances, temperature, and pressure, refer to page 73
  - Voice commands in Control Display, refer to page 74
  - 12h/24h mode of the clock, refer to page 74
  - Date format, refer to page 75
- Showing optical warning for PDC Park Distance Control*, refer to page 76
- Selection and brightness of display in Head-Up Display*, refer to page 85
- Air distribution, temperature and intensity of the automatic air conditioning system, refer to page 92
- Setting voice instructions for destination guidance in the navigation system*, refer to page 125

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

In addition, the following, most recently selected settings are recalled during unlocking:

- ▷ Positions of driver's seat, outside mirrors, and steering wheel, refer to page 40
- ▷ Audio sources, setting volume and tone, refer to page 133
- ▷ Telephone, setting volume, refer to pages 153, 159
- ▷ Radio, displaying memorized stations, refer to page 140

Central locking system

The concept

The central locking system is ready for operation whenever the driver's door is closed. The system simultaneously engages and releases the locks on the following:

- ▷ Doors
- ▷ Luggage compartment lid
- ▷ Fuel filler door

The central locking system can be operated from the outside

- ▷ via the remote control
- ▷ via the door lock

and from inside via the button for the central locking system.

When actuated from the inside, the fuel filler door is not locked, refer to page 31.

The anti-theft system is automatically activated whenever you operate the central locking system from outside the vehicle. It prevents the doors from being unlocked using the lock buttons or door handles. The alarm system is armed/disarmed at the same time. The remote control is also used to switch the interior lamps on and off.

You can find more detailed information on the alarm system on page 33.

In an accident of sufficient severity, the central locking system automatically unlocks the vehicle. In addition, the hazard warning flashers and interior lamps come on.

Opening and closing: from outside

Using the remote control

▷ Protect the remote control against unauthorized use by handing over only the spare key, for example when using valet parking.◀

⚠ Because any persons or animals left unattended in a parked vehicle could lock the doors from the inside, you should always keep the remote control with you; this precaution ensures that you will remain able to unlock the vehicle from the outside at all times.◀

Unlocking

Use the button to unlock the vehicle according to current settings.

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Vehicle settings" and press the controller.
3. Select "Door locks" and press the controller.
4. Select "Central locking" and press the controller.
5. Select "Unlock button" and press the controller.
6. Select a menu item:
   - ▷ "All doors"
     Press the button once to unlock the entire vehicle.
   - ▷ "Driver's door only"
     Press the button once to unlock only the driver's door and the fuel filler door. Press the button twice to unlock the entire vehicle.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

7. Press the controller.

The setting is stored for the remote control currently in use.

Convenience opening

Hold button down. The windows and the glass sunroof open.

Locking

Press LOCK button.

Switching on interior lamps

If the vehicle is locked, press the LOCK button.
You can also use this function to locate your vehicle in parking garages etc.

Panic mode*

By pressing and holding the button for more than approx. two seconds, you can trigger the alarm system in response to any impending danger.

To switch off the alarm: press any of the buttons.

Opening luggage compartment lid

Press button.

The luggage compartment lid opens, regardless of whether it was previously locked or unlocked.

During opening, the luggage compartment lid pivots back and up. Ensure that adequate clearance is available before opening. A previously locked luggage compartment lid is also locked again after closing.◀

Setting confirmation signals

You can vary or also deactivate the acknowledgment signals for locking or unlocking.

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Vehicle settings" and press the controller.
3. Select "Door locks" and press the controller.
4. Select "Confirmation" and press the controller.

5. Select desired signal.
6. Press the controller.
   The signals are switched on.

Malfunctions

The remote control may malfunction due to local radio waves.
Should the remote control fail to operate owing to interference of this kind, unlock and lock the vehicle via the door lock using the master key.

If it is no longer possible to lock the vehicle using the remote control, then its battery is discharged. Use this remote control during an extended drive; this will recharge the battery, refer to page 28.

For US owners only

The transmitter and receiver units comply with part 15 of the FCC/Federal Communication Commission regulations. Operation is governed by the following:

FCC ID:
LX8766S

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

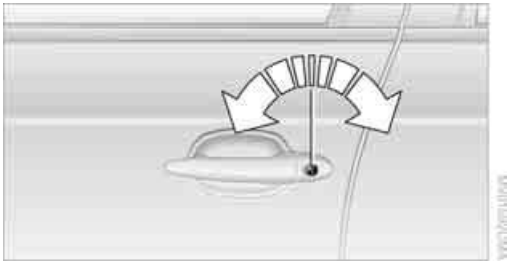
LX8766E
LX8CAS

Compliance statement:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- this device must not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

Any unauthorized modifications or changes to these devices could void the user's authority to operate this equipment.◀

Using door lock



One turn of the key in the driver's door lock unlocks the driver's door only.
Turning the key a second time unlocks all of the remaining doors, the luggage compartment lid and the fuel filler door.

Convenience operation

You also have the option of operating the windows and the glass sunroof from the driver's door lock.

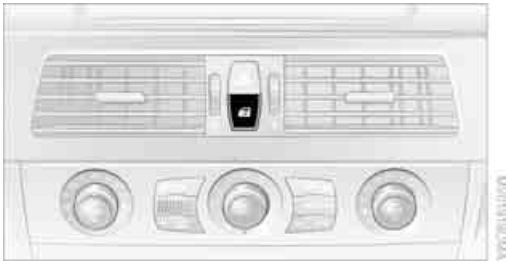
- Opening:
  With the door closed, turn the key to the unlock position and hold it there.
- Closing:
  With the door closed, turn the key to the lock position and hold it there.

Watch during the closing process to be sure that no one is injured. Releasing the key stops the operation.◀

Manual operation

If an electrical malfunction occurs, you can unlock or lock the driver's door with the key in the end positions of the door lock.

Opening and closing: from inside



This button serves to unlock or lock doors and the luggage compartment lid, but does not activate the anti-theft system. The fuel filler door remains unlocked.

You can also make the following settings:

- The central locking system automatically locks the vehicle after a short time when no door has been opened.
- The central locking system automatically locks the vehicle as soon as you start to drive.

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Vehicle settings" and press the controller.
3. Select "Door locks" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Select "Central locking" and press the controller.

5. Select "Relock door if not opened"
   or
   "Lock after driving".
6. Press the controller.
   The setting is selected.

The setting is stored for the remote control currently in use.

Unlocking and opening doors

- Either unlock the doors together with the button for the central locking system and then pull the door handle above the armrest or
- pull on the door handle of each door twice: The first time unlocks the door, the second time opens it.

Locking

- Use the central locking button to lock all of the doors simultaneously, or
- press down the lock button of the desired door. To prevent you from being locked out, the open driver's door cannot be locked using the lock button.

Because any persons or animals left unattended in a parked vehicle could lock the doors from the inside, you should always take the master key with remote control with you to ensure that you will remain able to unlock the vehicle from the outside whenever the need arises.◀

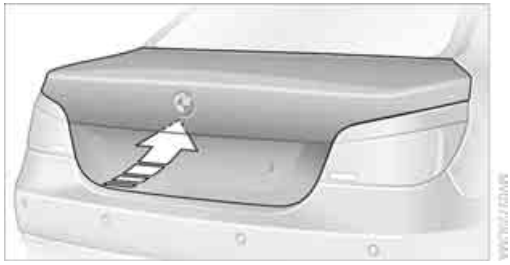
Luggage compartment lid

During opening, the luggage compartment lid pivots back and up. Ensure that adequate clearance is available before opening.◀

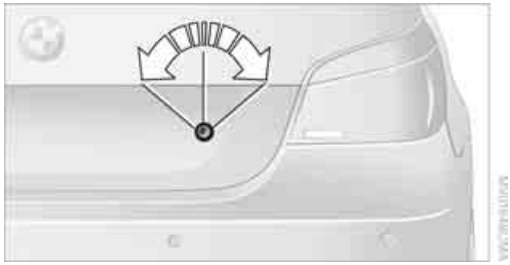
Opening from inside

Press the button: the luggage compartment lid opens unless it has been locked.

Opening from outside



Press the button: the luggage compartment lid opens.



Only the master keys with remote control, refer to page 28, match the luggage compartment lock.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Locking separately

Turn the master key with remote control in the lock of the luggage compartment lid beyond a resistance point to the right and withdraw it in the horizontal position.

This locks the luggage compartment lid and disconnects it from the central locking system. If you then only hand over the spare key, refer to page 28, no access is possible via the luggage compartment lid. This is an advantage when valet parking, for example.

Unlocking again and opening manually

Turn master key toward the left until the resistance point: the luggage compartment lid opens.

▷ If you use the key to unlock the luggage compartment lid while the alarm system is armed, the alarm will be triggered. You should therefore unlock the vehicle ahead of time.
If the alarm is inadvertently triggered: switch off the alarm, refer to page 34.◀

Emergency release

This lever releases the luggage compartment lid from inside the luggage compartment.

Closing

The handle recesses on the interior trim of the luggage compartment lid make it easier to pull down.

⚠ Make sure that the closing path of the luggage compartment lid is clear, as otherwise injuries may result.◀

Alarm system

The concept

The vehicle alarm system responds:

- ▷ When a door, the hood, or the luggage compartment lid is opened
- ▷ To movements inside the vehicle: Inner motion sensor, see below
- ▷ To changes in the vehicle's tilt if someone attempts to steal the wheels or tow the vehicle
- ▷ To interruptions in battery voltage

The system responds to unauthorized vehicle entry and attempted theft by simultaneously activating:

- ▷ An acoustic alarm, which lasts for a period of approx. 30 seconds
- ▷ The hazard warning flashers for approx. 5 minutes
- ▷ The high beams, which flash on and off in the same rhythm

Arming and disarming alarm system

When you lock or unlock the vehicle, either with the remote control or at the door lock, the alarm system is armed or disarmed at the same time.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

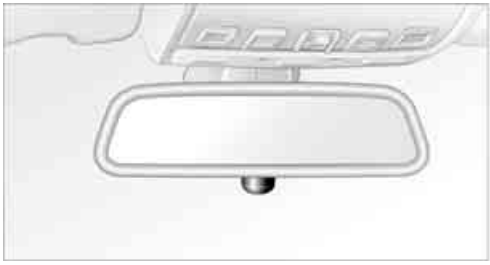
The system indicates that it has been correctly armed by switching on the hazard warning flashers for a single cycle and by emitting an acoustic signal.

You can also open the luggage compartment lid with the system armed using the button on the remote control, refer to page 30. When the luggage compartment lid is closed, it is locked again and monitored.

Switching off alarm

- ▷ Unlock the vehicle using the remote control, refer to page 29
- ▷ or turn the ignition key to position 1, refer to page 51.

Indicator lamp displays



- ▷ The indicator lamp under the inside rear-view mirror flashes continuously: the system is armed.
- ▷ The indicator lamp flashes after locking: the doors or luggage compartment lid are not properly closed. Even if you do not close the alerted area, the system begins to monitor the remaining areas, and the indicator lamp flashes continuously after approx. 10 seconds. However, the interior motion sensor is not activated.
- ▷ The indicator lamp goes out after unlocking: your vehicle has not been disturbed while you were away.
- ▷ The indicator lamp flashes after unlocking until the key is inserted into the lock, but can blink for up to approx. 5 minutes: your vehicle has been disturbed while you were away.

Tilt alarm sensor and interior motion sensor

Tilt alarm sensor

The tilt of the vehicle is monitored. The alarm system reacts, e.g. in case of an attempted wheel theft or towing.

Interior motion sensor

In order for the interior motion sensor to function properly, the windows and glass sunroof must be completely closed.

Avoiding unintentional alarms

The tilt alarm sensor and interior motion sensor may be switched off at the same time. This prevents unintentional alarms, e.g. in the following situations:

- ▷ In stacking garages
- ▷ When transporting on car-carrying trains
- ▷ When animals are to remain in the vehicle

Switching off tilt alarm sensor and interior motion sensor

Press the LOCK button on the remote control once again directly after locking.

The indicator lamp lights up briefly and then flashes continuously. The tilt alarm sensor and the interior motion sensor are switched off until the next time the vehicle is unlocked and subsequently locked again.

Windows

⚠ To prevent injuries, exercise care when closing the windows and keep them in your field of vision until they are shut.
When leaving the vehicle, always remove the ignition key and close the doors to prevent children from operating the windows and injuring themselves etc.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Opening and closing windows

Ignition key in position 1, refer to page 51:

- ▷ Press switch to resistance point:
  The window continues to open as long as you keep the switch pressed.
- ▷ Press switch beyond resistance point:
  The window opens automatically. Pressing the switch again stops the opening movement.

You can close the windows in the same manner by pulling the switch.

After switching off ignition

You can still operate the windows:

- ▷ With the Ignition key in position 1 for approx. 15 minutes
- ▷ With the ignition key in position 0 or with the ignition key removed, for approx. 1 minute, as long as a front door has not been opened.

For information on using the convenience operation at the door lock or with the remote control, refer to page 30 or 31.

Anti-trapping mechanism

If the closing force rises beyond a predefined threshold during closing, the system will immediately stop moving the window prior to lowering it slightly.

⚠ Despite the anti-trapping mechanism inspect the window's travel path prior to closing it, as the safety system might fail to detect certain kinds of obstructions, such as thin objects, and the window would continue closing.
Pulling the switch beyond the resistance point and holding it limits the response of the anti-trapping mechanism. In this case, if the closing force exceeds a defined threshold, the window will only open a few inches/millimeters.
If the switch is pulled past the resistance point again within approx. 4 seconds, the anti-trapping mechanism will be deactivated.◀

Safety switch

With the safety switch, you can prevent the rear windows from being opened or closed via the switches in the rear passenger area, by children, for example. The LED lights up when this safety feature is activated.

⚠ Always press the safety switch when children ride in the rear, as otherwise unchecked closing of the windows could lead to injuries.◀

Accessories in window area

After installing any accessory – such as a clamp-on antenna for a portable phone – within the window's travel range, you will need to have the system reinitialized for use under the new conditions. BMW recommends having this work done by your BMW center.

Glass sunroof, electric*

⚠ To prevent injuries, exercise care when closing the glass sunroof and keep it in your field of vision until it is shut.
When leaving the vehicle, always remove the ignition key and close the doors to prevent children from operating the sunroof and injuring themselves.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Ignition key in position 1, refer to page 51.

Raising

Press switch.

- When the glass sunroof is closed, it is raised slightly and the sliding visor opens slightly.
- When the glass sunroof is open, it automatically travels into the raised position. The sliding visor remains completely open.

Do not use force to close the headliner insert with the glass sunroof in its raised position, as damage to the mechanism could result.◀

Opening, Closing

- Press switch back to the resistance point. The glass sunroof and the sliding visor open together for as long as you hold the switch in position.
- Press switch back past the resistance point. The glass sunroof and the sliding visor open automatically. Briefly press the switch again to stop the opening movement.

In a similar manner, the glass sunroof and the sliding visor close when you slide the switch forward. The sliding visor remains open and must be closed by hand.

For information on using the convenience operation at the door lock or with the remote control, refer to page 30 or 31.

After switching off ignition

You can still operate the sunroof:

- With the Ignition key in position 1 for approx. 15 minutes
- With the ignition key in position 0 or with the ignition key removed, for approx. 1 minute, as long as a front door has not been opened.

Automatic opening and closing

Press the switch past the resistance point.

The following movements are also automatic:

- When the sunroof is open, press the switch in the lifting direction: the sunroof is raised all the way.
- When the sunroof is raised, press the switch in the opening direction: the sunroof is opened all the way.

Pressing the switch again stops the motion.

Anti-trapping mechanism

If the glass sunroof encounters resistance when closing from roughly the center of the sunroof opening or when closing from the raised position, the closing action is interrupted and the glass sunroof reopens a short way.

Despite the anti-trapping mechanism inspect the sunroof's travel path prior to closing it, as the safety system might fail to detect certain kinds of obstructions, such as very thin objects, and the sunroof would continue closing.
Pressing the switch beyond the resistance point and holding it there deactivates the anti-trapping mechanism.◀

Following interruptions in electrical power supply

After a power loss, the sunroof may only respond to the lift command. The system must be initialized. BMW recommends having this work done by your BMW center.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Manually opening and closing

In the event of an electrical malfunction, you can move the glass sunroof manually:

1. Fold the cover panel down, if necessary using screwdriver from onboard tool kit, refer to page 182.

2. Insert the Allen wrench supplied with the onboard tool kit, refer to page 182, into the opening provided. Move the glass sunroof in the desired direction. The arrow below indicates the rotation direction for closing.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Adjustments

Sitting safely

The ideal sitting position can make a vital contribution to relaxed, fatigue-free driving. The sitting position of the occupants also plays an important role for passive safety together with the safety belts and airbags in an accident. To ensure that the safety systems operate with optimal efficiency, we strongly urge you to observe the instructions contained in the following section.

For additional information on transporting children safely, refer to page 47.

Airbags

Always maintain an adequate distance between yourself and the airbags. Always hold the steering wheel by its rim with hands at the 9 o'clock and 3 o'clock positions, to minimize the risk of injuries to your hands and arms in the event of airbag deployment. No one and nothing is to come between the airbags and the seat occupant. Do not use the cover of the front airbag on the front passenger side as a storage area. Make sure that the front passenger is sitting correctly and does not rest feet or legs on the instrument panel, otherwise leg injuries can occur if the front airbag is triggered. Never let an occupant's head rest near or on a side airbag because the inflating airbag could cause a serious or fatal injury.◀

Even if you adhere to all the instructions, injuries resulting from contact with airbags cannot be fully excluded, depending on the circumstances. The ignition and inflation noise may provoke a mild hearing loss in extremely sensitive individuals. This effect is usually only temporary.

For airbag locations and additional information on airbags, refer to page 83.

Safety belt

Before every drive, make sure that safety belts are being worn at all of the occupied seats.

Airbags complement the safety belt as an additional safety device, but they do not represent a substitute.

At all times, occupants should sit upright and be properly restrained: infants and small children in appropriate child-restraint systems; larger children and adults using the safety belts. Never allow more than one person to wear a single safety belt. Never allow infants or small children to ride in a passenger's lap. Expectant mothers should always wear their safety belts, taking care to position the lap belt against the lower hips, where it will not exert pressure against the abdominal area. Do not route the belt across your neck, or run it across sharp edges. Be sure that the belt does not become caught or jammed. Avoid twisting the belt while routing it snugly across the hips and shoulder. Do not allow the belt to rest against hard or fragile objects. Otherwise, in the event of a frontal impact, a loose lap belt could slide over your hips, leading to abdominal injury. Avoid wearing clothing that prevents the belt from fitting properly and pull the shoulder belt periodically to readjust the tension across your lap in order to avoid a reduction in the retention effect of the safety belt.◀

For instructions on operating safety belts, refer to page 42.

Seats

Note before adjusting

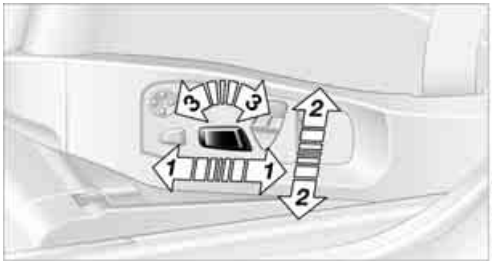
Never attempt to adjust your seat while the vehicle is moving. The seat could respond with unexpected movement, and the ensuing loss of vehicle control could lead to an accident. Also on the passenger side, do not incline the backrest too far to the rear while the vehicle is being driven, as otherwise there is a danger in the event of an accident of 'sliding under' the safety belt, eliminating the protection normally provided by the belt.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Please observe the information on damage to safety belts provided on page 43 and the information on the active front head restraints on page 42.

Seat adjustment

To ensure that the safety systems continue to provide optimized protection, please observe the adjustment instructions on page 38.◀



1 Longitudinal direction

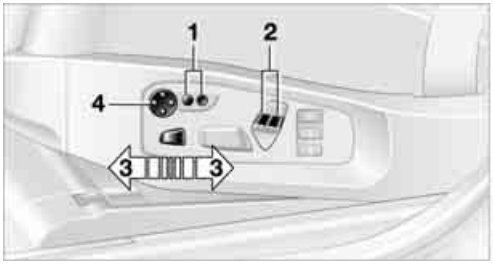
2 Height

3 Angle

4 Backrest

Adjusting comfort seat*

In this seat, you can also adjust:



1 Backrest width

2 Shoulder support

3 Thigh support

4 Lumbar support, see below.

Shoulder support: the adjustable upper backrest also supports the back in the shoulder region. This provides a relaxed driving position and helps relieve stress on the shoulder muscles.

After making corrections in the forward/backward adjustment of the seat, make sure that the safety belt still fits snugly against your body. Failure to do so may reduce the protection provided by the safety belt.◀

Adjusting sport seat*

In this seat, you can also adjust the thigh support **3**, see above.

Adjusting lumbar support*

You can also adjust the contour of the backrest to obtain additional support in the lumbar region.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

The upper hips and spinal column receive supplementary support to help you maintain a relaxed, upright sitting position.

- ▷ Increase or decrease curvature: push switch forward or back.
- ▷ Shift curvature up or down: push switch up or down.

Adjusting active backrest width*

First set a comfortable backrest width, see above. Based on the backrest width set, the lateral support is automatically adapted to the current driving situation.

The adaptation of the backrest width and the speed of the adjustment vary depending on the program. You can select from among three programs from comfort to sport.

Press program button once:

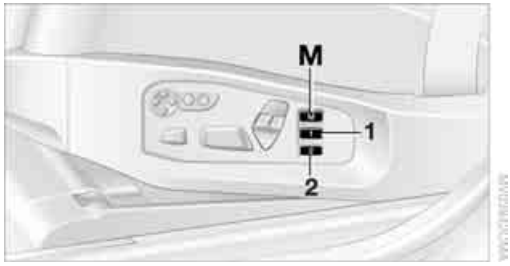
- ▷ "Comfort" program: one LED
- ▷ "Normal" program: two LEDs
- ▷ "Sport" program: three LEDs

To switch off: press button longer.

Easy entry/exit*

To facilitate entry and exit, the backrest temporarily opens all the way.

Seat, mirror and steering wheel memory*



You can store and request two different positions for the driver's seat and passenger seat*, external rearview mirrors, and steering wheel.

The adjustment of the lumbar support is not stored in the memory.

Storing

1. Turn ignition key to position 1 or 2, refer to page 51.
2. Set the desired seat, exterior mirror and steering wheel positions.
3. Press M button:
   The LED in the button lights up.
4. Press the desired memory button **1** or **2**.
   The LED goes out.

Requesting

⚠ Do not request a position from the memory while the vehicle is moving. There is a risk of accident from unexpected movement of the seat or steering wheel.◀

Convenience mode

1. Open the driver's door after unlocking or turn the ignition key to position 1.
2. Briefly press the desired memory button **1** or **2**.

   The system immediately cancels the adjustment procedure when you briefly press one of the seat adjustment buttons or one of the memory buttons.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Safety feature

1. Close the driver's door and turn the ignition key to position 0 or 2.
2. Press the desired memory button **1** or **2** and maintain pressure until the adjustment process has been completed.

If the M button was pressed inadvertently: press the button again; the LED goes out.

Position stored in key

The positions of the driver's seat, the external rearview mirrors, and steering wheel are stored for the remote key currently in use.

You can choose when the position is requested:

▷ Request when unlocking vehicle

▷ Request when opening driver's door

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Vehicle settings" and press the controller.
3. Select "Door locks" and press the controller.
4. Select "Central locking" and press the controller.
5. Select "Last seat pos." and press the controller.
6. Select "After unlocking" or "After opening door" and press the controller.

To cancel the request:
Select "Deactivated" and press the controller.

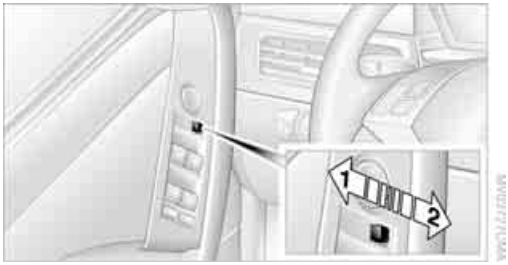
⚠ When using this feature, always make sure that the footwell behind the driver's seat is empty and unobstructed. Failure to do so could cause injury or damage to persons or objects behind the seat as a result of a rearward movement of the seat.◀

Passenger-side exterior mirror tilt function*

Automatic curb monitor

Activating

1. Slide mirror selector switch into the driver's side mirror position **1**.



2. When you shift into reverse or move the selector lever into position R, the exterior mirror on the front passenger side tilts downward slightly. This allows the driver to see the area immediately adjacent to the vehicle – such as a curb – when parking, etc.

Deactivating

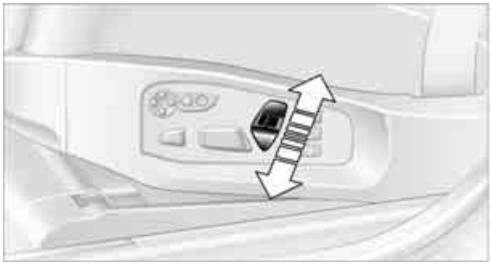
Slide mirror selector switch into the passenger's side mirror position **2**.

Head restraints

⚠ Head restraints reduce the risk of spinal injury in the event of an accident. Adjust the head restraints so that they are centered roughly at the level of your ears.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Front seat: height adjustment



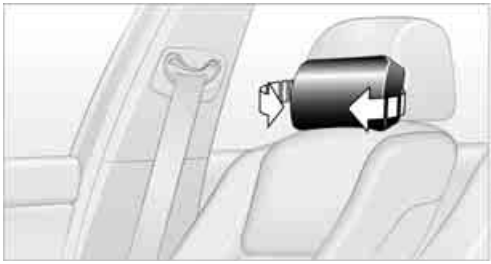
You can adjust the height of the head restraints electrically.

Front seat: angle adjustment

Swivel the head restraint.

With the comfort seat, use the shoulder support to set the distance to the back of the head.

Adjusting side extensions in the comfort seat



You can fold the side extensions on the head restraint forward for increased lateral support in the resting position.

Front head restraints, active*

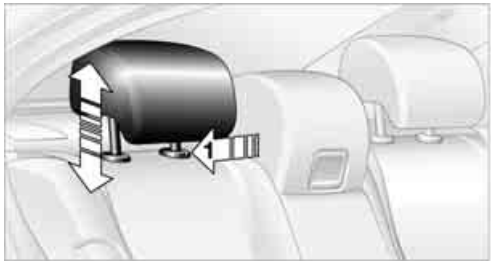
The comfort seats are equipped with an active head restraint.

In the event of a rear-end collision of sufficient severity, the active head restraint reduces the distance to the head.

⚠ To ensure that the active head restraints afford maximum protection, and to avoid unnecessary risks to personal safety, we request that you read and comply with the following:

- ▷ Do not install seat or head-restraint covers
- ▷ Never use the head restraints as supports for suspending objects of any kind, such as clothes hangers. Refrain from mounting accessories on either the seat or the head restraint.◀

Rear seats: height adjustment



Up: pull up.

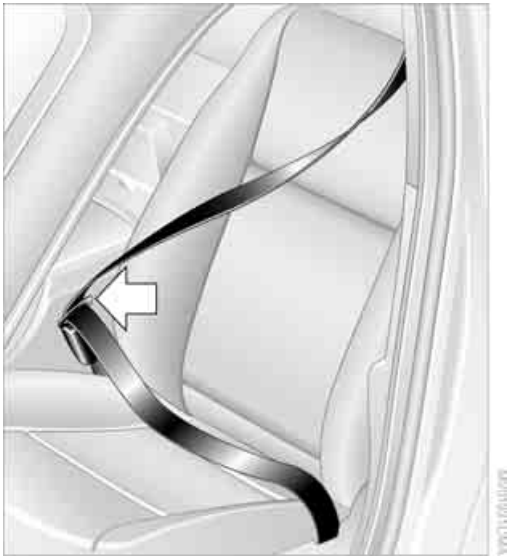
Down: press button **1** and slide the head restraint downward.

Safety belts

⚠ To ensure that the safety systems continue to provide optimized protection, please observe the adjustment instructions on page 38.◀

Before every drive, make sure that safety belts are being worn at all of the occupied seats. Airbags complement the safety belt as an additional safety device, but they do not represent a substitute.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG



Fastening

Make sure you hear the latch plate engage in the belt buckle.

Safety belt memory for driver's seat and passenger seat*

The indicator lamp lights up, a signal sounds, and a message appears on the display. Please check whether safety belts are correctly placed.

The safety belt memory is operative at speeds above approx. 5 mph/8 km/h. It can also be activated if objects are placed onto the passenger seat.

Releasing

1. Grasp the belt firmly.
2. Press the red button in the buckle.
3. Guide the belt into its reel.

The shoulder strap's anchorage point will be in the correct position for adult seat occupants of every build if the seat is correctly adjusted, refer to page 38.

The two rear safety belt buckles integrated into the rear seat are for passengers sitting on the left and right. The belt buckle embossed with the word CENTER is intended exclusively for use by passengers riding in the center position.

Damage to safety belts

If the safety belts are damaged or stretched in an accident: Have the entire belt system, including the tensioning mechanisms, replaced at your BMW center or at a workshop that works according to BMW repair procedures with correspondingly trained personnel. Have the belt anchorage points inspected for damage at the same time. Failure to observe this precaution may prevent the safety belts from effectively providing optimal protection when needed.◀

Heated seats*

Front

The temperature setting progresses one step through its control sequence each time you press the button. When the maximum temperature is selected, three LEDs light up.

To switch off: press the button longer.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Rear

The operating concept is the same as for the front heated seats.

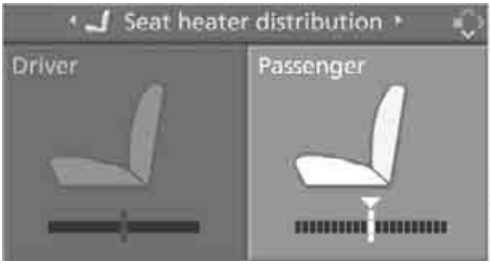
Temperature distribution in front

The heat output can be distributed variously in the seat cushion and the backrest.

Control Center, for principle details, refer to page 16.

Ignition key in position 2:

1. Select "Climate".
2. Select "Seat heater distribution" and press the controller.
3. Move the controller to the left or right to select "Driver" or "Passenger".



4. Turn the controller. The adjustment is applied; the field can be changed.

Active seat ventilation*

The system progresses one step through the control sequence each time you press the button.

To switch off: press the button longer.

▷ The highest position with three LEDs is used for rapid cooling, e.g. when the vehicle has gotten heated up. After a short time, the system is automatically switched down one position in order to prevent excessive cooling.◀

Active seat*

The seat cushion is actively varied by alternately raising and lowering the right and left half of the seat cushion. This reduces muscular tension and fatigue to help prevent lower back pain.

Press the button to switch on; the LED lights up.

If you switch off the active seat, it can take up to 1 minute before the two halves of the seat cushion have returned to their initial position.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Mirrors

Exterior mirrors

The mirror on the passenger side features a lens with a more convex surface than the mirror installed on the driver's side. When estimating the distance between yourself and other traffic, bear in mind that the objects reflected in the mirror are closer than they appear. This means that estimations of the distance to following traffic should not be regarded as precise.◀

1 Adjustments

2 Switching to the other mirror or to the automatic parking function, refer to Tilting the passenger-side mirror, page 41

Storing the mirror positions, refer to Seat, mirror and steering wheel memory on page 40.

Manual adjustment

You can also adjust the mirrors manually if necessary by pressing against the outer edges of their mirror glass.

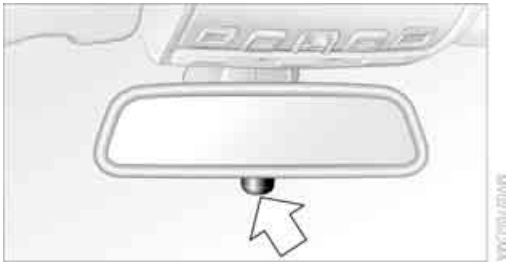
Folding mirrors in and out

To prevent the exterior mirrors on this vehicle from being damaged, always fold them in by hand before entering an automatic car wash.◀

Automatic heating

Both exterior mirrors are automatically heated in ignition key position 2.

Interior rearview mirror



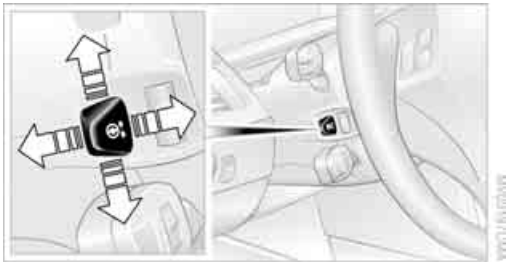
To reduce the dazzle effect of following vehicles at night, turn the knob.

Automatically dimming mirrors, refer to page 107.

Steering wheel

Adjustments

Do not adjust steering wheel while driving. There is a risk of accident from unexpected movement of the steering wheel.◀



The steering wheel can be adjusted in four directions.

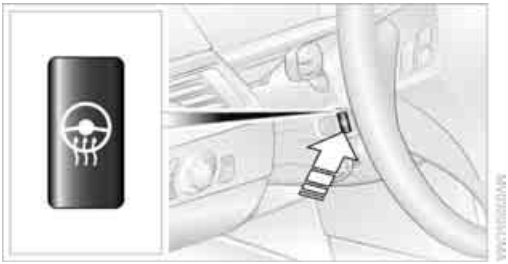
Storing steering wheel positions, refer to Seat, mirror and steering wheel memory on page 40.

Easy entry/exit*

To facilitate entry and exit, the steering wheel temporarily moves into the uppermost position.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

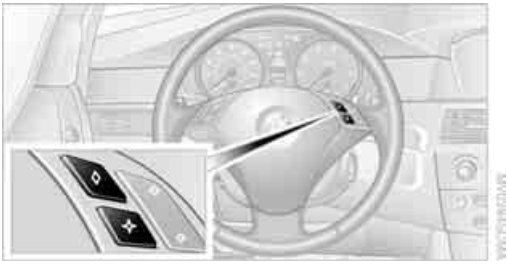
Steering wheel heater*



Press the button with the ignition key in position 2.

When the steering wheel heater is operating, the LED in the button lights up.

Programmable buttons* on the steering wheel



You can assign the function buttons individually.

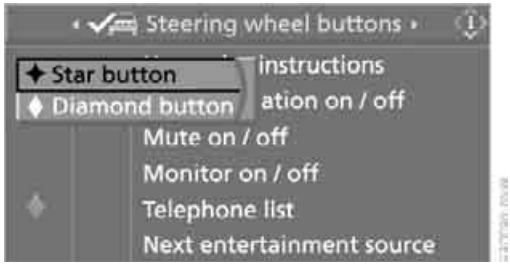
Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Vehicle settings" and press the controller.
3. Select "Steering wheel buttons" and press the controller.

The various functions are displayed:

- ▷ "Nav. voice instructions"
  Voice instructions for the navigation system
- ▷ "Air recirculation on / off"
  Permanently shutting off outside air, refer to AUC Automatic recirculated air control on page 91
- ▷ "Mute on / off"
  Mutes the audio sources
- ▷ "Monitor on / off"
  Switches the Control Display on/off
- ▷ "Telephone list"
  Switching between Entertainment and Telephone
- ▷ "Next entertainment source"
  Changes audio source

4. Select the desired function.
5. Press the controller.
6. Select button if necessary.



7. Press the controller.

The setting is stored for the remote control currently in use.

You can operate the selected function using the corresponding button.

Operating function

Press the corresponding button on the steering wheel.

Voice instructions of navigation system:

- ▷ To switch voice instructions on/off: hold the button down.
- ▷ To repeat the last voice instruction: press button.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Transporting children safely

The right place for children

Children always in the rear

Accident research shows that the safest place for children in a vehicle is in the rear seat.

Older children should be tightly secured with a safety belt, after they have outgrown a booster seat that is appropriate for their age, height and weight.

A child sitting in the rear seat and not properly restrained may place his or her head on or near the airbag, if so equipped. For example, a child, even though belted, may fall asleep with his or her head against the side airbag. It may be difficult for a driver to ensure that children in the rear seat will remain properly positioned at all times and do not place their heads on or near the side airbag. Therefore, we recommend that the rear seat side airbags, if provided, be deactivated if you plan to transport children in the rear seat.◀

Deactivating rear seat side airbags

The rear seat side airbags may already have been deactivated by a BMW center. Labels in the rear door opening should indicate the status of your rear seat side airbags. If you are uncertain of their status, or wish to have the airbags activated or deactivated, please contact your BMW center.

Child-restraint system in the rear

Children under 13 years of age and children less than 5 ft/150 cm tall should always ride in the rear and the restraint systems should be secured with the vehicle's safety belts.◀

Younger children should be secured in an appropriate forward-facing child-restraint system that has first been properly restrained. We strongly urge you to carefully read and comply with the instructions for installation and use provided by the child-restraint's manufacturer whenever you use such a device.

All rear sitting positions in your vehicle meet the recommendations of SAE J1819, an industry-recommended practice for securing child-restraint systems in motor vehicles.

Exception for front passenger seat

Should it be necessary to use a child-restraint system on the front passenger seat, the airbags on the front passenger side must be deactivated. Otherwise, there is a considerable risk of injury for the child when the airbags are triggered, even with a child-restraint system. Your BMW center will be glad to advise you.◀

Never install a rearward-facing child-restraint system in the front passenger seat of this vehicle if the passenger's airbag is not deactivated. If you do so, the child could be severely injured when the airbag is triggered.Your vehicle is equipped with an airbag supplemental restraint system for the front passenger. Because the backrest on any rearward-facing child-restraint system – of the kind designed for infants under 1 year and 20 lbs./ 9 kg – would be within the airbag's deployment range, you should never mount such a system in the front passenger seat, since the impact of the airbag against the child restraint's backrest could lead to serious or fatal injuries.◀

More information on automatic deactivation of the front passenger airbags, refer to page 83.

Backrest width adjustment

The backrest width adjustment of the passenger seat must be opened completely. After the child's seat is installed, memory positions must not be requested and the active backrest width adjustment must be deactivated, otherwise there is the risk of injury.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

1. After the vehicle is unlocked, sit in the passenger seat and close the door.
2. Open the backrest width adjustment completely, refer to page 39.
3. Deactivate active backrest width adjustment, refer to page 40.
4. Install child's seat.

Installing child-restraint systems

Before installing any child-restraint system or child seat, read the following:

⚠ Observe the child-restraint system manufacturer's instructions for installation and use. Otherwise the degree of protection may be reduced. After an accident, have all parts of the child-restraint system and of the relevant vehicle safety belt system checked and replaced if necessary. Have this work done only at your BMW center or at a workshop that works according to BMW repair procedures with correspondingly trained personnel. ◀

Commercially-available child-restraint systems are designed to be secured with a lap belt or with the lap belt portion of a combination lap/shoulder belt. Improperly or inadequately installed restraint systems can increase the risk of injury to children. Always read and follow the instructions that come with the system.

Child seat security

All of the rear belt retractors and the front passenger safety belt can be locked for mounting and securing child-restraint systems.

Information regarding this is located near the buckle latch of each safety belt.

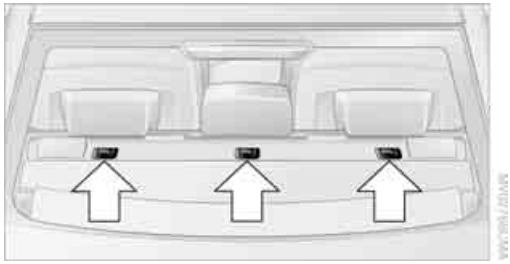
To lock safety belt

Pull the entire length of the belt from the belt retractor. Allow the reel to retract the belt somewhat and engage the buckle, then tighten the belt against the child-restraint system. The retraction mechanism is now locked.

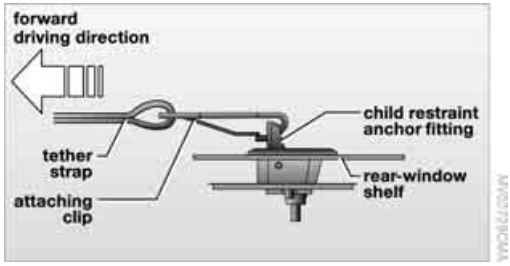
To unlock the safety belt

Release the buckle, remove the child-restraint system and allow the belt retractor to reel the belt completely in.

Child-restraint system with tether strap



If you use a child-restraint system with a tether strap, three additional tether anchorage points have been provided, refer to the arrows in the illustration. Depending on the location selected for sitting in the rear passenger area, attach the tether strap to the corresponding anchorage point to secure the child-restraint system, as shown in the illustration below.



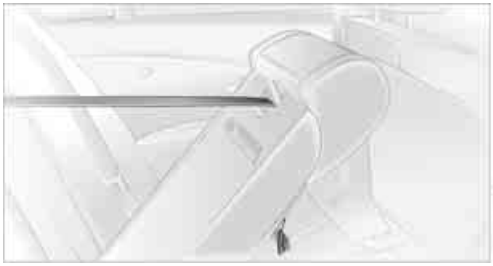
Placement of the tether strap

Outer sitting positions:
Lift the head restraint and pass the tether strap

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

between the head restraint and the seat back. It is recommended to readjust the head restraint into the lowest possible position.

Center sitting position:
Pull the center armrest forward somewhat to guide the tether strap through the opening. Then reengage the center armrest.



Adjust the tether strap according to the child-restraint manufacturer's instructions.◀

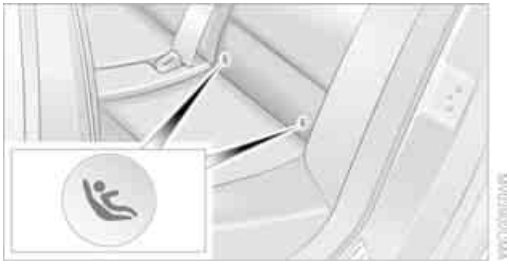
LATCH child-restraint fixing system

LATCH: Lower Anchor and Tethers for CHildren.

The rear outer sitting positions are provided with anchors for a LATCH child-restraint fixing system.

To attach the LATCH child-restraint fixing system, follow the operating and safety instructions of the manufacturer.◀

Access to anchorage points on rear seat with through-loading system

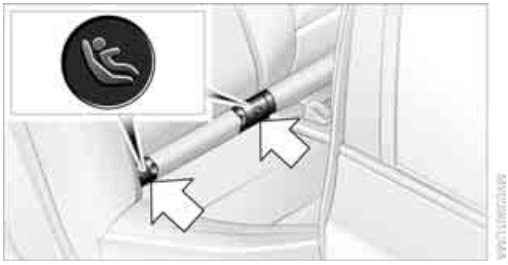


The illustration shows the left rear seat as an example.

The anchorage points for the LATCH child-restraint fixing system are located underneath the identifying symbols.

Before attaching the LATCH child-restraint fixing system, pull the belt out of the region of the child-restraint fixing system.

Access to anchorage points on rear seat with through-loading system



The illustration shows the right rear seat as an example.

The anchorage points for the LATCH child-restraint fixing system are located behind the indicated protective caps.

Before attaching the child-restraint fixing system, remove the LATCH protective caps and pull the belt away from the region of the child-restraint fixing system.

On journeys

If the rear is equipped with side airbags, make sure that children do not lean out of the child's seat towards the door panels. Otherwise severe injuries can be caused if the side airbags are triggered.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Child-safety locks for rear doors

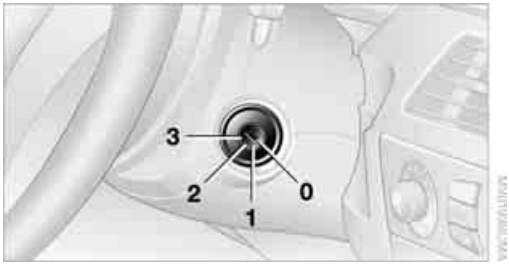
Slide down the safety lever on the rear doors: The door can now be opened from the outside only.

Safety switch for power windows

Always press the safety switch for the power windows, refer to page 35, when children are riding in the rear of the vehicle.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Ignition lock



0 Steering locked

The key can only be inserted or removed in this position.

After removing the key, turn the steering wheel slightly until it locks.

Interlock on automatic transmission

- ▷ Only move the selector lever from position P when the engine is running.
- ▷ To turn the key back to position 0 or to remove it, first place the selector lever in position P.

1 Steering unlocked

A slight steering wheel movement often makes it easier to turn the key from 0 to 1.

Some vehicle systems are ready for operation.

2 Ignition switched on

All vehicle systems are ready for operation.

3 Start engine

Starting engine

⚠ Do not run the engine in closed rooms, as otherwise the inhaling of toxic exhaust gases can cause unconsciousness and death. The exhaust gases contain carbon monoxide, an odorless and colorless, but highly toxic gas. Never leave an unattended vehicle with the engine running, as such a vehicle represents a potential safety hazard.
To prevent the vehicle from rolling, always select neutral position or position N and apply the handbrake before leaving the vehicle with the engine running.◀

When starting the engine, do not press the accelerator pedal.

Do not allow the engine to warm up by leaving it running while the vehicle remains stationary. Instead, begin to drive immediately at a moderate engine speed.

Special starting conditions

Press the accelerator pedal halfway down when starting if

- ▷ the engine fails to start on the first attempt, for instance, if it is very hot or cold
- ▷ the engine is started at very low temperatures, below approx. 5 °F /–15 °C, at high altitudes, over approx. 3,300 ft/1,000 m.

⚠ Avoid frequent starting in quick succession or repeated start attempts in which the engine does not start. Otherwise, the fuel is not burned or inadequately burned and there is a danger of overheating and damaging the catalytic converter.◀

Manual transmission

1. Apply the handbrake.
2. Gearshift lever in neutral position.
3. Press the clutch pedal.

   ▷ If the clutch pedal is not depressed, the engine will not start.◀
4. Start the engine.
   Do not end the starting procedure too early, however after approx. 20 seconds at the latest. Release the ignition key immediately as soon as the engine starts.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

SMG Sequential manual transmission and automatic transmission

Your BMW is equipped with the convenience starting feature. It is sufficient to turn the ignition key into position 3 for only a short time and then release it again. The system responds by automatically engaging the starter for a certain period and allowing it to run until the engine starts, after which it then disengages automatically.

SMG Sequential manual transmission

1. Press the brake pedal.
2. Place selector lever in position N.
3. Start the engine.

If the engine does not start, shift back to the last gear selected, refer to Instrument cluster display, and then shift into position N.◀

Automatic transmission

1. Press the brake pedal.
2. Place selector lever in position P or N.
3. Start the engine.

Switching off engine

Do not remove the ignition key while the vehicle is rolling, as otherwise the steering wheel lock will immobilize the steering. When leaving the vehicle, remove the ignition key and lock the steering. When parking on a downhill incline, apply the handbrake, as otherwise the vehicle could roll away.◀

Manual transmission

1. Turn the ignition key to position 1 or 0.
2. Shift into first gear or reverse.

SMG Sequential manual transmission

1. Engage a driving position.
2. Turn the ignition key to position 1 or 0.
   A signal sounds if the transmission is in Neutral when the engine is switched off.

Automatic transmission

1. Engage selector lever position P.
2. Turn the ignition key to position 1 or 0.

Handbrake

The handbrake is primarily intended to prevent the vehicle from rolling while parked; it brakes the rear wheels.

Indicator lamp

The indicator lamp lights up, and an acoustic signal also sounds when starting off. The handbrake is applied.

Indicator lamp for Canadian models.

Applying

The lever locks in position automatically.

Releasing

Pull slightly upwards, press the button and lower the lever.

If it becomes necessary under special circumstances to use the handbrake while driving, it must not be pulled too sharply. In doing so, continuously press the button of the handbrake lever. Strong application of the handbrake can lead to overbraking of the rear axle and associated 'fishtailing' of the vehicle rear end.
The brake lamps do not light up when the handbrake is applied.◀

To prevent corrosion and one-sided braking action, occasionally apply the hand-

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

brake lightly when the vehicle is slowly coming to a stop if the traffic conditions are suitable.◀

Manual transmission

When shifting into 5th/6th gear, press the selector lever toward the right, otherwise an inadvertent shift into 3rd or 4th gear could damage the engine.◀

Reverse gear

Select only when the vehicle is stationary. When pressing the gearshift lever to the left, overcome some resistance.

The backup lamps switch on automatically when the ignition key is in position 2.

SMG Sequential manual transmission*

The concept

The SMG Sequential manual transmission is an automated manual transmission in which an electrohydraulic system handles the clutching and gear changes.

You operate the SMG using the selector lever in the center console and two shift paddles on the steering wheel.

It offers you the following functions:

- ▷ Optional manual or automatic operation: Sequential mode or Drive mode
- ▷ You have a choice of two driving programs: Normal or Sport, refer to Dynamic Driving Control page 54
- ▷ Automatic downshifting and prevention of incorrect shifting even in sequential operation
- ▷ Acceleration assistant, refer to page 55.

The SMG is operational when the ignition key is in position 2.

Selector lever positions

The current selector lever position is displayed on the center console.

- ▷ R: Reverse
- ▷ N: Neutral
- ▷ One-touch functions for Sequential mode:
  +: manual upshifting
  –: manual downshifting
- ▷ D: Drive mode

The transmission automatically shifts into N if the driver's door is opened with the engine running and neither the pedals, the shift paddles nor the selector lever are operated. This is indicated by an acoustic signal and the flashing display N in the instrument cluster.◀

Gear display

R N 1 to 6

The currently engaged gear is displayed, preceded by a D in Drive mode.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Shiftlock

Press the brake pedal before shifting out of N; the shift command will not be executed unless the brake is applied.

R Reverse

Select only when the vehicle is stationary.

Sequential mode

After every engine start, as soon as the selector lever is pushed to the right and the brake pedal is pressed, the Sequential mode is activated.

You can shift up and down using the shifting paddles or the selector lever. You do not need to remove your foot from the accelerator to do so.

It is also possible to start off in second gear, e.g. in slippery conditions.

D Drive mode

In the Drive mode, all forward gears are shifted automatically.

Shifting from Sequential mode to Drive mode: press selector lever to the right toward D.

Kick-down:
For rapid acceleration, e.g. when passing, press the accelerator pedal as far down as it will go. You achieve maximum acceleration.

To switch back into the Sequential mode: press selector lever to the right again toward D or shift using the shifting paddles or the selector lever.

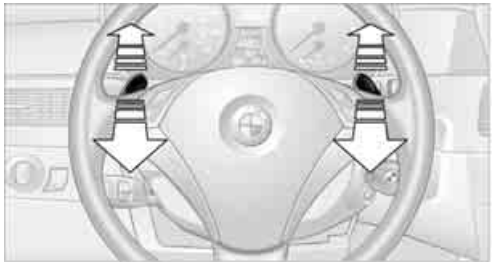
⚠ Start off quickly on slopes. Do not hold the vehicle on a hill by pressing the accelerator, but apply the handbrake instead. Otherwise overheating can occur in the transmission region.◀

Gear changes

Using selector lever

- ▷ To upshift, pull the selector lever back.
- ▷ To downshift, push the selector lever forward.

Using shift paddles on steering wheel



- ▷ To upshift, pull one of the shift paddles.
- ▷ To downshift, press.

In the following situations, the SMG in Sequential mode assists you:

- ▷ Upshifts and downshifts are executed only when they will result in a plausible combination of engine and vehicle speed; thus, for example, a downshift that would cause the engine to overrev will not be executed by the system.
- ▷ When the vehicle is stationary, the transmission automatically downshifts into first gear.
- ▷ Shortly before dropping below a gear-dependent minimum speed, the transmission downshifts automatically even without your intervention.

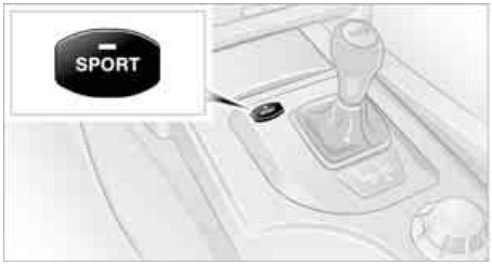
Dynamic Driving Control

The Dynamic Driving Control makes it possible for your BMW to react in an even more performance-oriented manner at the push of a button:

- ▷ The engine responds more spontaneously to accelerator pedal movements.
- ▷ Gearshifts are faster.
- ▷ The engine speed range is used optimally in the Drive mode.
- ▷ Cruise control*:
  The stored speed is reached more quickly when it is requested.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Activating system



Press the SPORT button with the ignition key in position 2.
The LED in the button lights up and SPORT is displayed in the instrument cluster.

Deactivating system

Press the SPORT button again.

The LED in the button and SPORT in the instrument cluster go out.

Acceleration assistant

The acceleration assistant enables optimized vehicle acceleration at racing car level on road surfaces with good adhesion when starting off.

Do not use the acceleration assistant too often, as otherwise components will wear prematurely.◀

1. Activate the Dynamic Traction Control.
2. Press the DTC button, refer to page 78, for longer than 3 seconds.
3. Quickly press accelerator pedal all the way down: kick-down. The ideal starting-off engine speed is set.

To maintain driving stability, do not deactivate DSC if at all possible.◀

Automatic transmission with Steptronic

In addition to fully automatic operation, you can also manually shift with the Steptronic, refer to page 56.

Selector lever positions

P R N D M/S + –

Displays in instrument cluster

P R N D DS M1 to M6

The selector lever position is indicated, and in the manual mode the gear currently engaged.

Changing selector lever positions

An interlock prevents inadvertent gearshifts into selector lever positions R and P. To cancel the interlock, press the button on the front of the selector lever knob, refer to arrow.

Shiftlock

Press the brake pedal before shifting out of P or N; the shift command will not be executed unless the brake is applied.

To prevent the vehicle from creeping after you select a driving position, maintain pressure on the brake pedal until you are ready to start.

P Park

Select only when the vehicle is stationary.
The rear wheels are locked.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

R Reverse

Select only when the vehicle is stationary.

N Neutral

For example, engage in automatic car washes. The vehicle can roll.

D Drive, automatic position

Position for normal vehicle operation. All forward gears are available.
Under normal operating conditions, fuel consumption is lowest when driving in position D.

Kick-down

The kick-down mode provides maximum acceleration: press the accelerator pedal beyond the full-throttle resistance point.

Manual operation and Sport program M/S

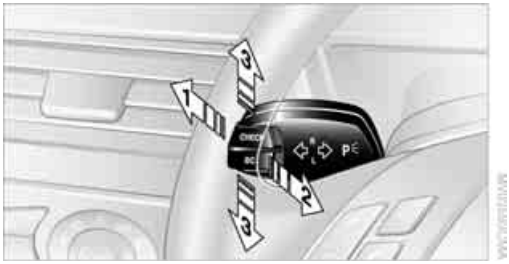
Move selector lever from position D toward the left into the M/S shifting slot:
The sport program is activated and DS appears in the instrument cluster. This position is recommended for a performance-oriented driving style.

When the selector lever is pressed forward or back, the manual mode is activated and the Steptronic shifts the gear. The instrument cluster shows M1 through M6.

Upshifts and downshifts are executed only when they will result in a plausible combination of engine and vehicle speed; thus, for example, a downshift that would cause the engine to overrev will not be executed by the system. The selected gear appears briefly in the instrument cluster, followed by the current gear.

To use the automatic function again, move the selector lever to the right into position D.

Turn signals/ headlamp flasher



1 High beams
2 Headlamp flasher
3 Turn signals

Using turn signals

Press the lever beyond the resistance point.

To turn off manually, press the lever to the resistance point.

Atypically rapid flashing of the indicator lamp indicates that a turn signal bulb needs to be replaced.
After switching off the ignition, make sure that the roadside parking lamps are not switched on.◀

Signaling for a short time

Press lever to resistance point and hold for as long as you wish to signal.

Triple turn signal activation

Press the lever to the resistance point; the turn signal flashes three times.

You can activate or deactivate this function.

Control Center, for principle details, refer to page 16.

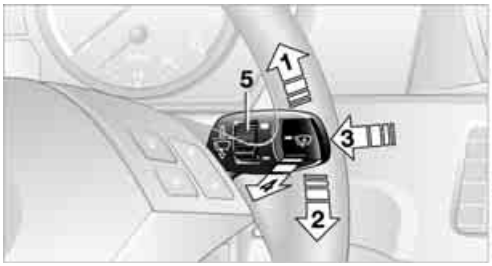
1. Open the i menu.
2. Select "Vehicle settings" and press the controller.
3. Select "Light" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Select "Triple turn signal activation" and press the controller.

Triple turn signaling is activated.

Wiper system



1 Switching on wipers
2 Switching off wipers or brief wipe
3 Activating/deactivating rain sensor
4 Cleaning windshield and headlamps
5 Adjusting rain sensor sensitivity level

Switching on wipers

The lever automatically returns to its initial position when released.

Normal wiper speed

Press once.
The system reverts to operation in the intermittent mode when the vehicle is stationary.

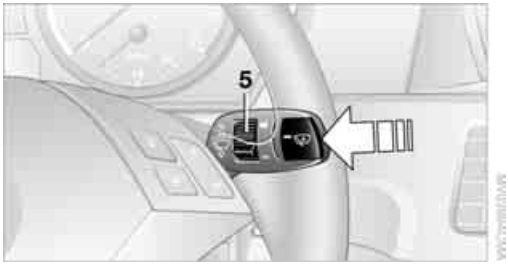
Fast wiper speed

Press twice or press beyond the resistance point.
The system reverts to normal speed when the vehicle is stationary.

Rain sensor

The wiper operation is controlled automatically as a function of the rain intensity. The rain sensor is located on the windshield, directly in front of the interior rearview mirror.

Activating the rain sensor



Press button. The LED in the button lights up.

Adjusting rain sensor sensitivity level

Turn the serrated dial **5**.

Deactivating the rain sensor

Press the button again. The LED goes out.

Deactivate the rain sensor when passing through an automatic car wash. Failure to do so could result in damage caused by undesired wiper activation.◀

Cleaning windshield and headlamps*

The system sprays washer fluid against the windshield and activates the wipers for a brief period.

When the vehicle lighting system is switched on, the headlamps are cleaned at regular and appropriate intervals.

Do not use the washers if there is any danger that the fluid will freeze on the windshield. If you do so, your vision could be obscured. To avoid freezing, use a washer fluid antifreeze, refer to Washer fluid. Do not use washing mechanisms when the washer fluid reservoir is empty, otherwise you will damage the washer pump.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Windshield washer nozzles

The windshield washer nozzles are automatically heated in ignition key position 2.

Washer fluid

Washer fluid antifreeze is flammable. Always keep it well away from sparks and open flames, and store it in tightly closed containers well out of the reach of children. Always observe the instructions for use provided on the containers.◀

Washer fluid reservoir

Fill with water and – if required – with a washer antifreeze, according to manufacturer's recommendations.

In order to maintain the mixture ratio, mix the washer fluid before filling.◀

Capacity

3.2 US quarts/3 liters, in conjunction with headlamp washer system* approx. 5.3 US quarts/ 5 liters.

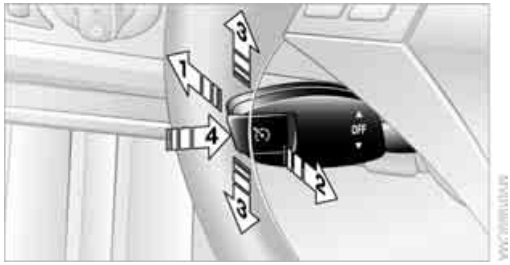
Cruise control*

The concept

The cruise control is available for use at speeds of approx. 20 mph/30 km/h and higher. The vehicle maintains and stores the speed that you set using the lever mounted on the steering column.

Do not use the cruise control under driving conditions that do not permit a constant speed, e.g.when driving on winding roads, in heavy traffic or in poor road conditions such as snow, rain, ice, and loose road surface.◀

One lever for all functions



1 Maintaining speed, storing speed, and accelerating

2 Maintaining speed, storing speed, and decelerating

3 Interrupting cruise control

4 Resuming stored speed

Maintaining speed, storing speed, and accelerating

Press lever to resistance point **1**:
The speed currently being driven is maintained and stored. The display **1** in the speedometer, refer to page 59, indicates this regulated speed. Every time you press the lever, the vehicle's speed increases by roughly 1 mph/1 km/h.

Press lever to resistance point for a longer time: The vehicle accelerates without pressure on the accelerator pedal. The system maintains and stores your current speed as soon as you release the lever.

Press the lever beyond the resistance point: increase speed by 5 mph/10 km/h.

The vehicle may accelerate beyond the regulated speed on steep downhill stretches where the engine's braking effect alone may not be sufficient to slow the vehicle. Speed can drop on uphill grades if the engine output is insufficient.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Maintaining speed, storing speed, and decelerating

Pull the lever **2**:
Functions are the same as **1**, only the vehicle speed is reduced.

Interrupting cruise control

With the cruise control active, briefly press the lever up or down **3**.

In addition, cruise control is automatically deactivated:

- ▷ When the brakes are applied
- ▷ When the clutch pedal is depressed or the automatic transmission/SMG is shifted into the N position
- ▷ When the DSC comes on

Resuming stored speed

Press button **4**:
The stored speed is resumed and maintained.

Deactivating system

When the ignition is switched off, the system is deactivated and the stored speed is deleted.

Displays in instrument cluster

1 Stored desired speed display

2 Digital speed display.
Appears briefly when you select your desired speed

Active cruise control*

The concept

With active cruise control, you can select a desired speed which is not only automatically maintained when driving on open roadways, but also varied to maintain a selected distance setting as slower traffic is encountered.

Active cruise control is a technological advance over the familiar cruise control and is a welcome relief from the constant adjustment of speed that can accompany driving in traffic on freeways or other high-speed thoroughfares. Especially on longer trips, the system can reduce fatigue and tension, while increasing your enjoyment of driving. Please use it safely and responsibly.

In addition to holding a steady cruising speed, if you encounter slower vehicles ahead, active cruise control will, within the scope of given possibilities, adjust your vehicle's speed automatically so that you can flow with the traffic without having to make constant adjustments. If, for example, while cruising at the selected speed, you begin to approach a slower vehicle ahead of you in the same lane, the system will reduce your vehicle's speed to the same as that of the vehicle ahead to maintain your selected distance setting between your vehicle and the vehicle ahead. There are four settings for distance, which are additionally speed-dependent. Based on your selected distance setting, the system automatically decreases the throttle setting and lightly applies the brakes if necessary. The vehicle brake lamps will automatically illuminate to signal a following driver to take action. In addition, it may be necessary for the vehicle or the driver to downshift, depending on the kind of transmission your vehicle is equipped with, to maintain the distance setting selected. If the vehicle ahead speeds up or when the lane ahead becomes clear, your vehicle will accelerate to the speed you have selected by increasing the throttle setting and shifting gears automatically or by the driver as needed.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Active cruise control is not and must not be used as a collision avoidance/warning system.◀

Since this active cruise control system is a new technology and operates differently from conventional cruise control systems which you may be accustomed to, you are strongly urged to read all of the pages relating to this system before use. Pay special attention to the information contained in the Things to know about active cruise control section in this manual beginning on page 62.◀

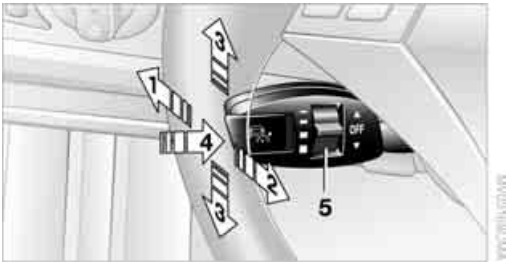
Vehicles with manual transmission

You can use the system in the 2nd to 6th gear within a normal engine speed range and also change gears. Continuous operation at very high or very low engine speeds is not possible. In this case the driver is asked to shift or the system deactivates itself.

Vehicles with SMG

Continuous operation at very high engine speeds is not possible in the Sequential mode. In this case the driver is asked to shift or the system deactivates itself.
In the Drive mode, the SMG acts similarly to the automatic transmission in the D position.

Operating active cruise control



1 Activate system, store and increase desired speed

2 Activate system, store and decrease desired speed

3 Deactivate system

4 Recall the stored speed and distance or increase desired speed by 1 mph/1 km/h with each press of the button

5 Select distance to vehicle driving ahead. You can choose from four available distance settings. You will find more detailed information on page 62.

Adjust your desired speed to the traffic conditions and remain ready to brake at all times. Great differences in speed to the vehicles driving ahead, e.g. when quickly approaching a truck or when another vehicle swerves into your lane, cannot be compensated for by the system.◀

Displays in instrument cluster

1 Stored desired speed display

2 Detected vehicle display. Lights up when vehicle driving ahead is detected

3 Selected distance to vehicle driving ahead

4 Digital speed display.
Appears briefly when you select your desired speed

The system is activated.
The display **3** appears as soon as you activate the system and no vehicle is detected driving ahead.

Vehicle detected.
The display **2** lights up yellow when a vehicle is detected driving ahead.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

The system requests that you intervene by braking or with an evasive maneuver. The display **2** flashes red and a signal sounds. The active cruise control cannot automatically restore the distance to the vehicle driving ahead. You will find more detailed information on page. You will find more detailed information on page 64.

Automatic intervention by ABS or DSC, or you actuate the handbrake while driving. The display **2** flashes yellow. The active cruise control now only intervenes by braking.

Desired speed, store and increase

Press the lever forward **1** at a driving speed of more than approx. 20 mph/30 km/h:
The system applies and stores your current speed as a desired speed. This speed is indicated on the speedometer and displayed briefly in the instrument cluster.
Subsequently pressing forward increases the desired speed to the next multiple of 5 mph/10 km/h. Each time the lever is pressed forward again, the desired speed is increased by another 5 mph/10 km/h until a maximum of 110 mph/180 km/h is reached. The speed then displayed is stored and achieved, provided that the road is clear.

▷ If the display ACC --- mph/km/h briefly appears in the instrument cluster, it might be that conditions necessary for operation are not currently being met.
To call up Check Control messages, refer to page 67.◀

Desired speed, store and decrease

Pull back the lever **2**:
The current driving speed is rounded off to the next multiple of 5 mph/10 km/h, displayed and stored.
Each time the lever is pulled back again, the desired speed is decreased by another 5 mph/10 km/h until the minimum speed of 20 mph/30 km/h is reached. The speed then displayed is stored and achieved, provided that the road is clear.

Deactivate system

Press the lever up or down while the system is active **3**. The displays in the instrument cluster disappear. You can use the system again as required.

In addition, the system is deactivated automatically:

- ▷ When you apply pressure to the brake pedal
- ▷ When you select the automatic transmission's/SMG's neutral position N
- ▷ When the manual transmission is shifted into neutral
- ▷ When you deactivate the DSC Dynamic Stability Control
- ▷ When you actuate the handbrake during driving
- ▷ When the system reduces the speed to below 20 mph/30 km/h due to a traffic situation

⚠ The system deactivates automatically when the speed is set to below 20 mph/30 km/h. An acoustic signal sounds and a message appears on the Control Display. The active intervention of the driver is required.◀

When you switch off the ignition, the stored desired speed is deleted.

Resume stored desired speed and distance setting

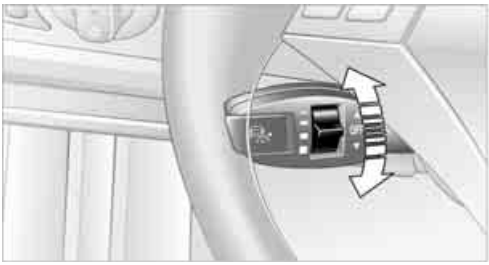
Press button **4** when the system is deactivated. The displays appear in the instrument cluster. The system is reactivated and uses the last stored desired speed and distance setting.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Fine adjustment of desired speed

In the activated state, the desired speed increases by 1 mph/1 km/h each time button **4** is pressed briefly.

Select distance



You can choose from four distance steps.

- ▷ Rotary switch downward:
  Increase distance
- ▷ Rotary switch upward:
  Decrease distance

The selected distance is displayed in the instrument cluster.

Distance 1

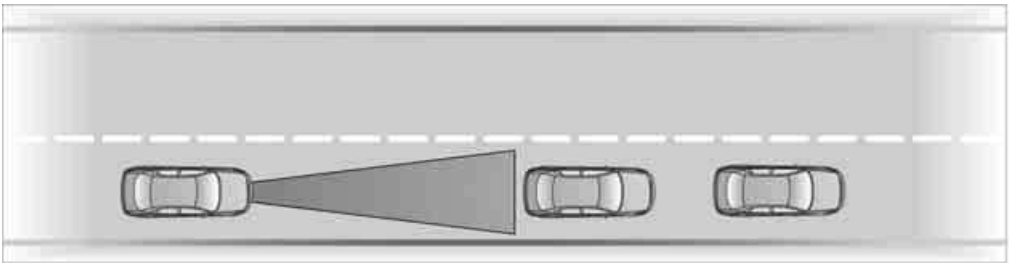
Distance 2

Distance 3
This distance is always set when the system is used for the first time after starting the engine.

Distance 4

Use good judgment to select the appropriate following distance given road conditions, traffic, applicable laws and driving recommendations for safe following distance.◀

Things to know about active cruise control



As with conventional cruise control systems, active cruise control in no way diminishes or substitutes for the driver's own personal responsibility, alertness and awareness in adjusting speed, braking or otherwise controlling the vehicle. The driver should decide when to use the system on the basis of road, traffic, visibility, and weather conditions. Active cruise control is intended for use on highway-type roadways where traffic is moving relatively smoothly. Do not use this system in city driving; heavy traffic such as during rush hour; on curvy, winding roads, slippery roads or roads with sharp curves such as highway off-ramps; during inclement weather such as snow, strong rain or fog; or when entering interchanges, service/parking areas or toll booths. It is also important to regulate your vehicle's speed and distance setting within applicable legal limits. Always be ready to take action or apply the brakes if necessary, especially when the system is actively following a vehicle in front of you.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Always remember that the range and ability of the system does have physical limitations. It will not apply the brakes or decelerate your vehicle when there is a slow-moving vehicle, stopped vehicle or stationary object ahead of you, as for example, at a traffic light or a parked vehicle. Also, the system does not react to oncoming traffic, pedestrians or other types of potential traffic such as a rider on horseback. It is also possible that the system may not detect smaller moving objects such as motorcycles or bicycles. Be especially alert when encountering any of these situations as the system will neither automatically brake, nor provide a warning to you. Also, be aware that every decrease in the distance setting allows your vehicle to come closer to a vehicle in front of you and requires a heightened amount of alertness.◀

If while your vehicle is actively following a vehicle in front of you and the vehicle ahead speeds up or the lane ahead becomes clear, then your vehicle will accelerate to the speed you have selected. Be aware that changing to a clear, unobstructed lane will also result in your vehicle accelerating.

Be certain to deactivate the system when you pull into an exit lane for a highway offramp.◀

Also, vehicles traveling in a staggered manner on a highway may cause a delay in the system's reaction to a vehicle in front of you or may cause the system to react to a vehicle actually in the lane next to you. Always be ready to take action or apply the brakes if necessary.

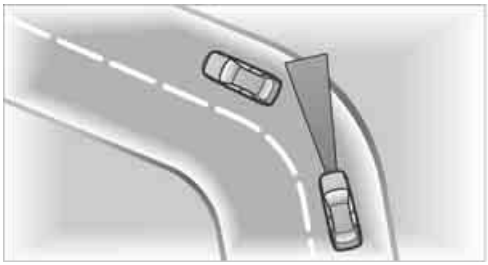
Active cruise control can only decelerate the vehicle to approx. 20 mph/30 km/h. If the system reduces vehicle speed below 20 mph/ 30 km/h or if DSC/ABS is engaged while driving, the system will automatically deactivate.

Remember, the system cannot stop your vehicle. In addition, the system is deactivated whenever the driver applies the vehicle brakes, shifts the transmission to neutral/N, or deactivates DSC. After any deactivation, the system will no longer automatically activate the vehicle brakes, which means the driver must intervene and resume manual braking. You should then reactivate the system only when you are fully aware of the prior speed and distance settings.◀

Active cruise control may brake when you reduce the stored desired speed; however, the driver must constantly monitor traffic and intervene if necessary.

When you switch off the engine or ignition, active cruise control is fully switched off, too, and any settings you have selected are canceled.

Behavior in curves



Because of the limited range of the system, it is possible that in curves or on the peaks and valleys of hilly roads, a vehicle ahead may be recognized late, or not at all. Therefore, it is up to the driver to select a speed that is prudent in view of the curves and terrain of the roadway.

In approaching a curve, it is possible that active cruise control would react briefly to a vehicle in the adjacent lane. In addition, the system can sense if your vehicle is in a curve and may not accelerate. If your vehicle decelerates in either case, you can choose to overcome the deceleration by briefly pressing the accelerator pedal.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

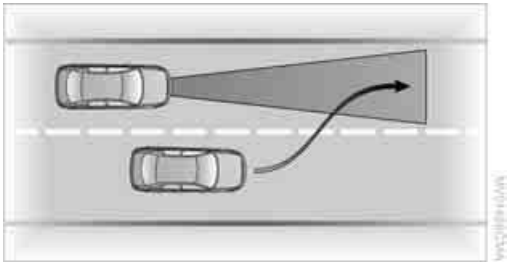
Driver interventions

Anytime the driver presses down on the accelerator pedal, any automatic braking action by the system is interrupted until the pedal is fully released. After doing this, release the accelerator and the system again controls your cruising speed and distance setting. While driving with activated system, resting your foot on the accelerator pedal will cause the system not to brake even if necessary. Be certain that floormats or other objects on the vehicle floor do not interfere with movement of the accelerator pedal.◀

While active cruise control is capable of braking your vehicle automatically when you approach a slower vehicle ahead, it is important to be aware that the ability of the system to apply the brakes is also limited, particularly if you are driving down a steep grade or when you reduce your desired speed sharply. The system cannot stop your vehicle. It uses only a portion of braking system capacity and does not utilize the full capacity of the vehicle braking system. Therefore, the system cannot decrease your speed for large differences in speed between your vehicle and the vehicle ahead. Examples: during emergency braking, when you approach a vehicle traveling at a much lower speed than your own speed such as approaching a toll booth or when a much slower vehicle cuts in front of you at close range.◀

Whenever active cruise control recognizes a situation that requires driver braking because the system capacity has been reached or has been exceeded, the system alerts the driver by flashing this symbol in the instrument cluster and sounding a signal.

Swerving vehicles



When a vehicle moves from an adjacent lane into your lane, active cruise control will not recognize this vehicle until it is fully in your lane ahead of your vehicle.

Malfunction

The indicator lamp lights up and a message appears on the Control Display. The build-up of foreign matter, e.g., snow, ice, dirt, road debris etc., can lead to reduced detection performance of active cruise control. You should check the sensor under the front bumper and clean it as necessary prior to driving your vehicle. If the sensor becomes covered by foreign matter or has a malfunction, it is possible that the sensor will no longer be able to detect vehicles in front of you. After the system recognizes that the sensor is no longer functional, a message is displayed on the Control Display and an acoustic signal is emitted.

When the system does not recognize any objects, e.g. on infrequently traveled roads without a shoulder or guard rails, the system can automatically deactivate temporarily.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Everything under control

Odometer, outside temperature display, clock

When the ignition is off you can briefly activate the time, outside temperature and odometer displays by pressing the knob **3** in the instrument cluster.

1 Outside temperature display, time, date

The outside temperature and the time are displayed as of ignition key position 1.

Date retrieval:
Press CHECK button on turn signal lever, refer to page 69.

Time and date setting, refer to page 74.

You can set the measurement unit °F or °C on the Control Display, refer to Measurement units on page 73.

Ice warning

A signal sounds when the outside temperature falls to approx. +37.5 °F /+3 °C; this is accompanied by a message.

Please bear in mind that the ice warning does nothing to alter the fact that black ice may be present on roads at temperatures higher than +37.5 °F /+3 °C, e.g. on bridges and shaded roads.◀

2 Odometer and trip odometer

Resetting trip odometer: press the knob **3** in the instrument cluster.

Tachometer

The white-striped advance warning field, arrow **1**, changes depending on the engine temperature. The segments disappear in sequence as the engine warms to its normal operating temperature. Avoid allowing the engine speed to rise as far as the orange warning sector whenever possible.

Engine speeds in the red warning field, arrow **2**, must absolutely be avoided. In this range, the fuel supply is interrupted to protect the engine.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Energy Control

Displays the current fuel consumption. This allows you to see whether your current driving style is conducive to fuel economy with minimum exhaust emissions.

Fuel gage

Fuel tank capacity: approx. 18.5 gallons/ 70 liters, including the reserve capacity of approx. 2.1 gallons/8 liters. You can find information on refueling on page 168.

If the tilt of the vehicle varies for a longer period, when you are driving in mountainous areas, for example, the indicator may fluctuate slightly.

After the reserve quantity has been reached, a message appears for a short time on the Control Display; the remaining range is shown in the computer. With a range below approx. 30 miles/ 50 km, the message remains on the Control Display.

Refuel as soon as possible once your cruising range falls below 30 miles/ 50 km, as otherwise engine functions are not ensured and damage can occur.◀

Service requirements

The remaining travel distance and the date for the next maintenance are displayed briefly when the ignition key is in position 2.

Your BMW Service Advisor can determine your vehicle's current service requirements by reading out the data stored in the master key.◀

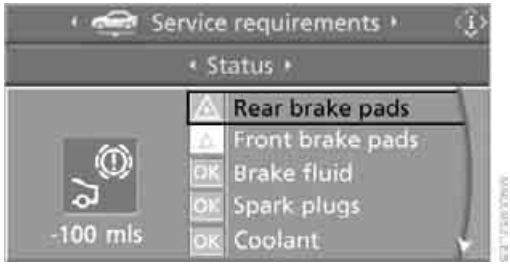
Additional information

You can view additional information on service and maintenance procedures on the Control Display.

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Service" and press the controller.
3. Select "Service requirements" and press the controller.
4. Select "Status" and press the controller

The display shows a list of selected service and maintenance procedures, as well as legally mandated inspections.



Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Symbols

No service is currently required.

The deadline for service or a legally mandated inspection is approaching. Please arrange a service appointment soon.

The service deadline has already passed.

You can request more detailed information on every entry.

Select the entry and press the controller.

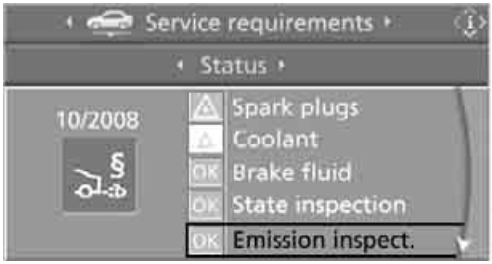
To exit from the menu:
Select the arrow and press the controller.

Entering dates for state emission and vehicle inspections

Make sure the date on the Control Display is always set correctly, refer to page 74, as otherwise the effectiveness of CBS Condition Based Service is not ensured.

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Service" and press the controller
3. Select "Service requirements" and press the controller.
4. Select "Status" and press the controller
5. Select "Emission inspect." or "State inspection" and press the controller.



6. Select "Set service date" and press the controller. The month is highlighted.
7. Turn the controller to make the adjustment.

8. Press the controller to apply the setting. The year is highlighted.
9. Turn the controller to make the adjustment.
10. Press the controller to apply the setting. The date entry is stored.

To exit from the menu:
Select the arrow and press the controller.

Check Control

The concept

The Check Control monitors functions in the vehicle and issues a message if there is a malfunction in the monitored systems.

Supplementary messages on the Control Display are intended to assist you in assessing the severity of malfunctions; they provide you with the information you need to decide on the best way to respond.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

An example of a message is given below.

In the instrument cluster

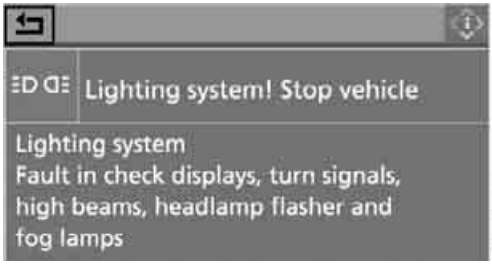
⚠ This symbol means that a Check Control message has been generated. The symbol remains even if the message has been automatically masked after a short time, but is still in memory.

On the Control Display

An acoustic signal sounds at the same time.

Supplementary instructions

Example:

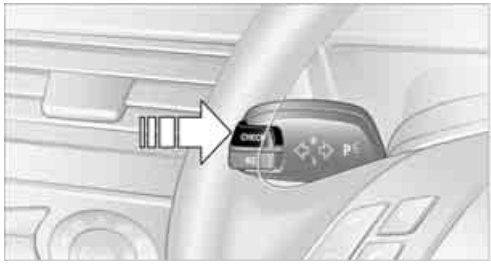


Exit supplementary instructions:
Select the arrow and press the controller.

Importance of messages

Important messages remain until the malfunctions have been corrected. They cannot be deleted. If a number of malfunctions occur simultaneously, they are displayed in succession.

Less important messages are displayed for approx. 20 seconds, but remain in memory.



To blank out these messages during the display period:
Press the CHECK button on turn signal lever.

Check Control symbol and information on the Control Display

OK No malfunctions are present in the monitored systems.

Malfunctions are present in the monitored systems.

Depending on the malfunction, supplementary information is shown on the Control Display.

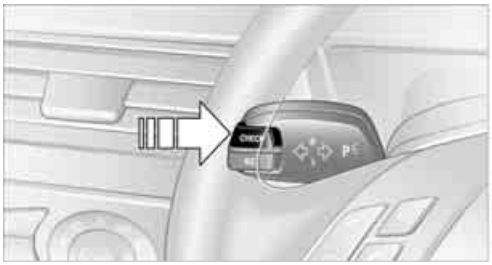
The symbols also indicate the status of the service requirements display, refer to page 66.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Recalling stored messages

Using CHECK button

1. Hold the button down:
   The first stored message is displayed.



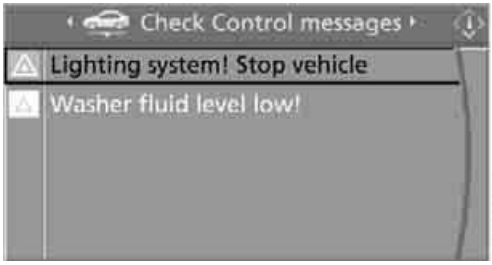
2. Press the button:
   When the button is pressed again, a different message is displayed.

Using Control Center

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Press the controller to open the i menu.
3. Select "Service" and press the controller.
4. Select "Check Control messages" and press the controller. The stored messages appear on the display
5. Select a message and press the controller.



The display disappears automatically after a short time.
In order to exit from the display immediately:
Select the arrow and press the controller.

Displays after completion of trip

Malfunction reports generated during the trip are shown consecutively when you switch off the ignition.

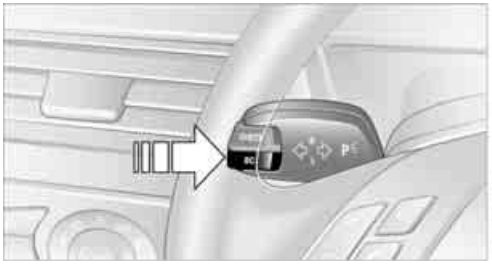
Before the display disappears, you can display the messages once again. Press the CHECK button for approx. 2 seconds. If several messages are present, you can continue to press the CHECK button to view them in succession.

The display goes out

- ▷ automatically after a brief period
- ▷ when you press the CHECK button again for approximately 2 seconds.

Computer

Requesting functions



As of ignition key position 1, you can use the BC button in the turn signal lever to call up computer information in the instrument cluster.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Further information appears each time you press the BC button.

In the instrument cluster

The display sequence:

▷ Cruising range

▷ Average speed

▷ Average fuel consumption

Cruising range

Displays the estimated cruising range available with the remaining fuel. It is projected based on the driving style over the last 20 miles/30 km.

⚠ Refuel as soon as possible once your cruising range falls below 30 miles/ 50 km, as otherwise engine functions are not ensured and damage can occur.◀

Average speed

Periods with the vehicle parked and the engine switched off are not included in the calculations of average speed.

To reset average speed: press BC button on turn signal lever for approx. 2 seconds.

Average fuel consumption

The average fuel consumption is calculated for the time during which the engine is running.

You can use the Control Display to view your fuel consumption rate over two different distances, refer to Computer or Trip computer*.

To reset average fuel consumption: press BC button on turn signal lever for approx. 2 seconds.

On the Control Display

You can also call up the computer via the Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Move the controller to the right to open "Navigation".
   In vehicles without navigation system: Open "Car Data".
3. Select "Car Data" and press the controller

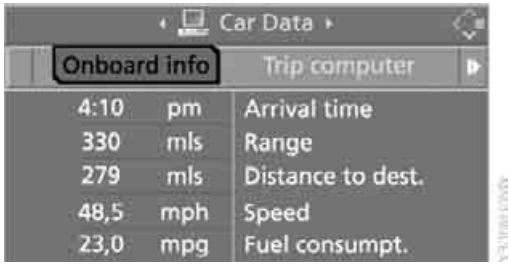
You now have a choice between:

▷ Computer

▷ Trip computer,
suitable e.g. for a vacation trip.

Computer

Select "Onboard info" and press the controller.



▷ Estimated time of arrival at destination:

  ▷ Entering a distance manually in the computer, see below.

  ▷ Entering a destination in the navigation system*, refer to page 115.

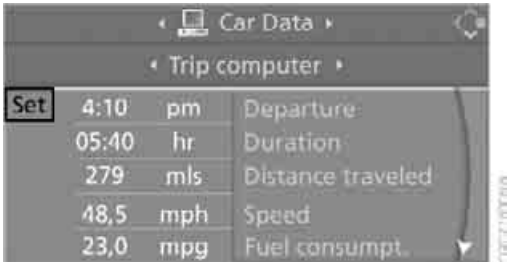
▷ Cruising range

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

- Distance to destination:
  - Entering a distance manually in the computer, see below.
  - Entering a destination in the navigation system*, refer to page 115.
- Average speed
- Average fuel consumption

Trip computer*

Select "Trip computer" and press the controller.



- Departure time
- Driving time
- Distance traveled
- Average speed
- Average fuel consumption

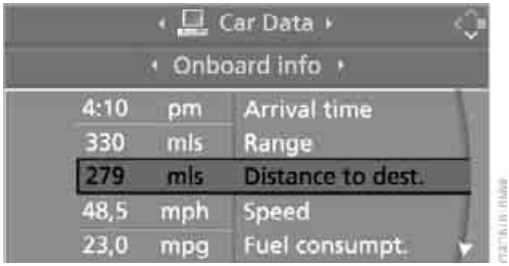
Trip computer, starting, stopping, or resetting all values:

1. Select "Set" and press the controller.
2. Select the desired menu item.
3. Press the controller.

Entering a distance manually

Control Center, for principle details, refer to page 16.

1. Open "Navigation".
   In vehicles without a navigation system: Open "Car Data".
2. Select "Car Data" and press the controller.
3. Select "Onboard info" and press the controller.
4. Select "Distance to dest." and press the controller.



5. Turn the controller to select the distance to your destination. If needed, hold it against a slight resistance to enter a larger difference.
6. Press the controller to apply the setting.

The distance is automatically preset during the destination guidance of the navigation system*.

Display options

You can display the computer or the trip computer in the assistance window.

Control Center, for principle details, refer to page 16.

1. Move the controller to the right to change to the assistance window and press the controller.

2. Select a menu item:
   - "Onboard info"
   - "Trip computer"

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

3. Press the controller.

Speed limit

You can enter a speed and a Check Control message indicates when you have reached this speed. This enables you, for example, to receive warnings if you exceed a speed limit in an urban area.
You are only warned of reaching this speed a second time if your vehicle speed falls below it again by at least 3 mph/5 km/h.

Entering, changing

Control Center, for principle details, refer to page 16.

1. Open "Navigation".
   In vehicles without a navigation system: Open "Car Data".
2. Select "Car Data" and press the controller.
3. Select "Limit" and press the controller.

4. Select the speed and press the controller.
5. Turn the controller to set the limit. If needed, hold it against a slight resistance to enter a larger difference.
6. Press the controller to apply the setting.

Applying your current speed as limit

Control Center, for principle details, refer to page 16.

1. Open "Navigation".
   In vehicles without a navigation system: Open "Car Data".
2. Select "Car Data" and press the controller.
3. Select "Limit" and press the controller.
4. Select "Select current speed" and press the controller. The system adopts your current speed as the limit.

Activating limit

Control Center, for principle details, refer to page 16.

1. Open "Navigation".
   In vehicles without a navigation system: Open "Car Data".
2. Select "Car Data" and press the controller.
3. Select "Limit" and press the controller.
4. Select "On" and press the controller.
   ☑ Limit is activated.

Stopwatch

Control Center, for principle details, refer to page 16.

1. Open "Navigation".
   In vehicles without a navigation system: Open "Car Data".
2. Select "Car Data" and press the controller.
3. Select "Stopwatch" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Starting and stopping

▷ Select "Start" and press the controller.
The stopwatch starts at the displayed time.

▷ Select "Reset" and press the controller.
The stopwatch is reset and it restarts if it was running beforehand.

▷ Select "Stop" and press the controller.
This stops the timer.

Taking an intermediate time reading

Select "Interim time" and press the controller. The interim time appears below the ongoing primary stopwatch count.

▷ All of the remaining functions remain available at all times while the stopwatch is running. The stopwatch continues operation in the background.◀

Settings on Control Display

Brightness of Control Display

The brightness is automatically adapted to the ambient lighting conditions. However, you can change the base setting.

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Press the controller to open the i menu.
3. Select "Display settings" and press the controller.
4. Select "Brightness" and press the controller.
5. If necessary, move the controller to the right to select "Display Offset".
6. Turn the controller until the desired setting is selected.

The setting is stored for the remote control currently in use.

Measurement units

You can change the measurement units for consumption, distances, temperature and pressure.

1. Open the i menu.
2. Select "Display settings" and press the controller.
3. Select "Units" and press the controller.

4. Select the menu item to be set.
5. Press the controller.
6. Select the desired measurement unit and press the controller.

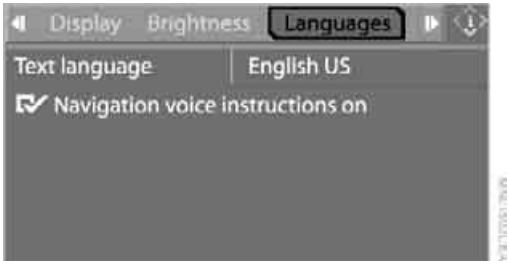
The settings are stored for the remote control currently in use.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Language on Control Display

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Display settings" and press the controller.
3. Select "Languages" and press the controller.



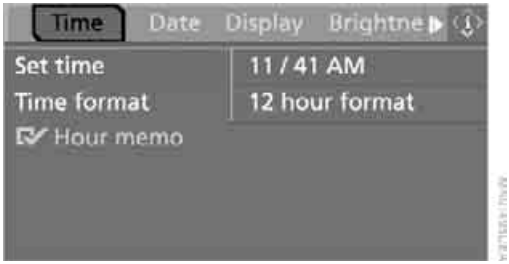
4. Select "Text language" and press the controller. You can change the language of the text displays.
5. Select and activate the desired language by pressing the controller.

The setting is stored for the remote control currently in use.

Setting time

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Display settings" and press the controller.
3. Select "Time" and press the controller.



4. Select "Set time" and press the controller. The hours are highlighted.
5. Turn the controller to set the hours.
6. Press the controller to apply the setting. The next setting is highlighted.
7. Make the remaining adjustments. After the last adjustment, the time is stored.

12h/24h mode

1. Select "Time format" and press the controller.
2. Select the desired mode and press the controller.

The setting is stored for the remote control currently in use.

Switching on hour signal*

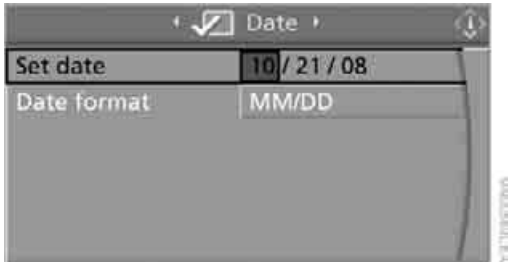
You will hear three tones just before each full hour.

Select "Hour memo" and press the controller.
The hour signal is activated.

Date setting

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Display settings" and press the controller.
3. Select "Date" and press the controller.
4. Select "Set date" and press the controller. The first section of the date display is highlighted, in this case the month.



5. Turn the controller to make the adjustment.
6. Press the controller to apply the setting. The next setting is highlighted.
7. Make the remaining adjustments. After the last adjustment, the date is stored.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Changing date format

1. Select "Date format" and press the controller.
2. Select the desired format and press the controller.

The setting is stored for the remote control currently in use.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Technology for comfort, convenience and safety

PDC Park Distance Control*

The concept

The PDC assists you when you are parking. Acoustic signals and an optical display* alert you to the approach of an object from behind your vehicle. To measure the distance, there are four ultrasonic sensors in each bumper. The sensors at the front and at the two rear corners have a range of approx. 24 in/60 cm; the rear middle sensors have approx. 5 ft/1.50 m.

PDC is a parking aid that can indicate objects when they are approached slowly, as is usually the case when parking. Avoid approaching an object at high speed, as otherwise the physical circumstances would mean that the system warning was too late.◀

Automatic mode

When the ignition key is in position 2, the system automatically assumes operational status after a few seconds each time you shift into reverse or move the selector lever into the R position.

Wait this short period before driving. The system switches itself off when you shift out of reverse.

Manual mode

Press button, the LED lights up.

Deactivating manual mode

Press the button again; the indicator lamp goes out.

The system is automatically deactivated once the vehicle travels approx. 165 ft/50 m or exceeds a speed of roughly 20 mph/30 km/h; the indicator lamp goes out. You can reactivate the system manually as needed.

Signal tones

When nearing an object, the position is correspondingly indicated by an interval tone. Thus, an object detected to the left rear of the vehicle will be indicated by a signal tone from the left rear speaker, etc. As the distance between vehicle and object decreases, the intervals between the tones become shorter. If the distance to the nearest object falls to below roughly 1 ft/30 cm, then a continuous tone sounds.

The warning signal is canceled after approx. 3 seconds, if you are moving parallel to a wall.

Malfunction

The LED in the button flashes and a message appears on the Control Display. PDC is malfunctioning. Have the system checked.

To prevent this problem, keep the sensors clean and free of ice or snow in order to ensure that they will continue to operate effectively.

PDC with visual warning*

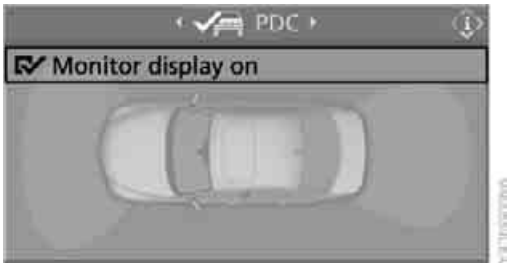
You can also have the system show distances to objects on the Control Display. The Control Display also indicates objects that are farther away before a signal tone sounds.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Press the controller to open the i menu.
3. Select "Vehicle settings" and press the controller.
4. Select "PDC" and press the controller.
5. Select "Monitor display on" and press the controller.



The PDC screen is activated.

The display appears on the Control Display as soon as PDC is activated.

The setting for the remote control currently in use is stored.

System limits

Even with PDC, final responsibility for estimating the distance between the vehicle and any obstructions always remains with the driver. Even when sensors are provided, there is a blind spot in which objects can no longer be detected.The system is also subject to the physical limits that apply to all forms of ultrasonic measurement, such as those encountered with thin and wedge-shaped objects, etc. Low objects already displayed, e.g. a curb, can also disappear from the detection area of the sensors again before a continuous tone sounds. Loud noises from outside and inside your vehicle may prevent you from hearing the PDC signal tone.◀

Do not apply high pressure spray to the sensors for a prolonged period of time. Keep the spray at least 4 in/10 cm away from the sensors.◀

Driving stability control systems

Your BMW is equipped with an extended array of systems designed to enhance and maintain vehicle stability under extreme conditions.

ABS Antilock Brake System

ABS prevents locking of the wheels during braking. Safe steering response is maintained even during full braking. Active safety is thus increased.

The ABS is operational every time you start the engine. Safe braking, refer to page 107.

CBC Cornering Brake Control

When braking during curves or when braking during a gear change, driving stability and steering response are improved further.

Electronic brake-force distribution

The system controls the brake pressure in the rear wheels to ensure stable braking behavior.

DBC Dynamic Brake Control

When you apply the brakes rapidly, this system automatically produces the maximum braking force boost and thus helps to achieve the shortest possible braking distance during full braking. This system exploits all of the benefits provided by ABS.

Do not reduce the pressure on the brake pedal for the duration of the brake application. When the brake pedal is released, DBC is deactivated.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

DSC Dynamic Stability Control

The system prevents traction loss in the driving wheels when starting off and accelerating. DSC also detects unstable driving conditions such as a fishtailing rear end or sliding of the front wheels. In these cases, DSC helps the vehicle maintain a safe course within physical limits by reducing engine output and through braking actions in the individual wheels.

The DSC is operational every time you start the engine.

The laws of physics cannot be repealed, even with DSC. An appropriate driving style always remains the responsibility of the driver. Therefore, do not reduce the additional safety margin again by taking risks.◀

DTC Dynamic Traction Control

DTC is a version of DSC in which the drive output is optimized for particular road conditions, e.g. unplowed snow-covered roads. The system assures the maximal drive output, but with reduced driving stability. It is therefore necessary to drive with appropriate caution.

You may find it useful to briefly activate DTC under the following special circumstances:

- When driving on snowy inclines, in slush, or on unplowed, snow-covered road surfaces
- When rocking a stuck vehicle free or starting off in deep snow or on loose ground
- When driving with snow chains

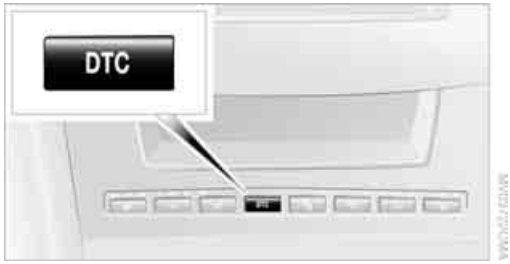
Activating DTC

Press the button briefly; the DTC indicator lamp in the instrument cluster lights up.

Deactivating DTC again

Press the button again; the DTC indicator lamp in the instrument cluster goes out.

Deactivating DTC and DSC together



Press the button until the DSC indicator lamp in the instrument cluster lights up, but not longer than approx. 10 seconds. Stabilizing and drive output promoting actions are no longer executed. In addition, the stability promoting intervention of the active steering is deactivated, refer to page 81.

A message appears on the Control Display. Please note any supplementary information that appears there.

To increase vehicle stability, activate DSC again as soon as possible.

Reactivating DSC

Press the button; the DTC indicator lamp in the instrument cluster goes out.

To control

The indicator lamp flashes:
DSC or DTC controls the drive forces and brake forces.

The indicator lamp lights up:
DSC and DTC are deactivated together via the button DTC.

The indicator lamp lights up:
DTC is activated via the DTC button.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Malfunction in vehicle stability-control systems

The brake system warning lamp lights up in red, appearing together with the indicator lamps for ABS and DSC. A message appears on the Control Display. The driving stability control systems are deactivated. Conventional braking efficiency remains available without limitations. While you may continue, you should remember to proceed cautiously and drive defensively while avoiding full brake applications. Have the system checked as soon as possible.

Display of the previously described malfunction on Canadian models.

The indicator lamp for DSC lights up; a message appears on the Control Display. DSC and DTC are deactivated. The stability maintenance functions are no longer available. The vehicle remains in running order. Have the system checked as soon as possible.

The warning lamp for the brake system lights up in yellow; a message appears on the Control Display. DBC has failed. Have the system checked as soon as possible.

Display of the previously described malfunction on Canadian models.

Active roll stabilization*

The concept

Active roll stabilization minimizes body roll and optimizes vehicle stability during cornering and evasive maneuvers.

Dynamic stabilizers at the front and rear axles form the basis for active roll stabilization. Suspension compliance adapts to suit driving conditions, varying from performance-oriented during cornering to smooth and comfort-oriented when the vehicle is proceeding in a straight line. During vehicle operation, the system continuously runs through closed-loop control cycles lasting only fractions of a second.

The system assumes operational status each time you start the engine.

Malfunction

The warning lamp lights up and a message appears on the Control Display. There is a malfunction in the system. Have the system checked as soon as possible.

If there is a malfunction in the system, please remember to adapt your speed accordingly, especially in curves. The suspension will be noticeably softer and the vehicle will display a greater tendency to tilt during cornering and in crosswinds. If a message stating that you should stop appears on the Control Display, stop and switch off the engine as soon as possible. In this case the oil level in the reservoir may have dropped below the minimum, possibly owing to a leak in the hydraulic system. Do not continue driving. Contact your BMW center.◀

Flat Tire Monitor

The concept

The Flat Tire Monitor keeps track of the inflation pressures in the four mounted tires as you drive. The system provides an alert whenever the inflation pressure drops significantly in relation to the pressure in another tire.

In the event of a pressure loss, the rolling radius and therefore the rotation speed of the wheels change. This change is detected and is reported as a flat tire.

Functional requirement

In order to assure the reliable reporting of a flat tire, the system must be initialized for the correct tire inflation pressure.

Perform the initialization immediately after correcting the inflation pressure,

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

after changing a tire or after changing a wheel or all of the wheels.◀

System limits

The Flat Tire Monitor cannot indicate sudden severe tire damage caused by outside factors and does not detect a natural, even pressure drop in all four tires.◀

In the following situations, the system could be delayed or malfunction:

- System has not been initialized
- Driving on snowy or slippery road surface
- Sporty driving style: slip in the drive wheels, high lateral acceleration
- Driving with snow chains*

When you are driving with the compact wheel, the Flat Tire Monitor is unable to function.

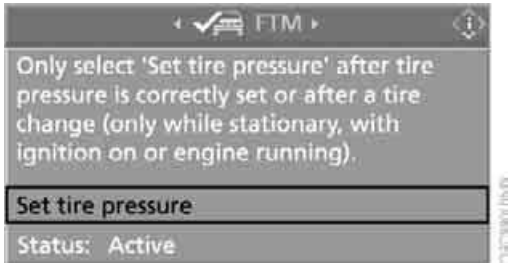
Initializing system

The initialization finishes during driving, which can be interrupted at any time. When driving resumes, the initialization is continued automatically. When driving with snow chains or with the compact wheel, do not initialize the system.◀

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Vehicle settings" and press the controller.
3. Select "FTM" and press the controller.

4. Start engine, but do not start driving.
5. Select "Set tire pressure" and press the controller.



6. Select "Yes" and press the controller.
7. Start to drive.
   The message "Initializing" is displayed.

The initialization finishes during driving. Then the message "Status: Active" appears on the Control Display again.

Indication of a flat tire

The warning lamp lights up in red and a message appears on the Control Display. In addition, an acoustic signal sounds. There is a flat tire or extensive inflation pressure loss.

1. Reduce speed and stop the vehicle carefully. Avoid sudden braking and steering maneuvers.
2. Identify damaged tire.

   If identification is not possible, contact a BMW center.◀
3. Replace the damaged wheel, refer to Changing a wheel on page 185.

Vehicles with run-flat tires

1. Cautiously reduce speed to below 50 mph/80 km/h. Avoid sudden braking and steering maneuvers. Do not exceed a speed of 50 mph/80 km/h.

   If the vehicle is not equipped with run-flat tires, refer to page 174, do not continue driving. Continuing to drive with a flat tire could cause severe accidents.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

2. At the next opportunity, check the air pressure in all four tires.

   If the tire inflation pressure in all four tires is correct, the Flat Tire Monitor has not been initialized. The system must then be initialized.◀

3. In the event of complete tire pressure loss, 0 psi/0 kPa, or obvious tire damage, you can estimate the possible distance for continued driving on the basis of the following guide values:

   ▷ With a light load:
   1 to 2 persons without luggage:
   approx. 155 miles/250 km

   ▷ With a medium load:
   2 persons, luggage compartment full, or
   4 persons without luggage:
   approx. 94 miles/150 km

   ▷ With a full load:
   4 or more persons, luggage compartment full:
   approx. 30 miles/50 km

Drive reservedly and do not exceed a speed of 50 mph/80 km/h. In the event of pressure loss, vehicle handling changes. This includes reduced tracking stability in braking, extended braking distance and altered natural steering characteristics.
If unusual vibrations occur while the vehicle is being driven, this can indicate final failure of the damaged tire. Reduce speed and stop as soon as possible. Do not continue driving. Contact your BMW center.◀

Malfunction

The warning lamp lights up yellow and a message appears on the Control Display. The Flat Tire Monitor has a malfunction or has failed. Have the system checked as soon as possible.

Active steering*

The concept

The active steering is a system that actively varies the steering angle of the front wheels in relation to the steering wheel movements.

When you are driving in the low road speed range, e.g. in a town or when parking, the steering angle increases, i.e. the steering becomes very direct. In the higher speed range, on the other hand, the steering angle is reduced more and more. This improves the handling capability of your BMW over the entire speed range.

In critical situations, the system can make targeted corrections to the steering angle provided by the driver and thus stabilize the vehicle before the driver intervenes. This stabilizing intervention is simultaneously deactivated when DSC is switched off, refer to page 78.

Malfunction

The warning lamp lights up. The active steering is no longer operational. At low speeds, greater steering wheel movements are required, whereas at higher speeds, the vehicle reacts more sensitively to steering wheel movements. Have the system checked.

If the warning lamp lights up during the first engine starting following a power supply interruption, the system must be activated by being initialized.

Initializing system

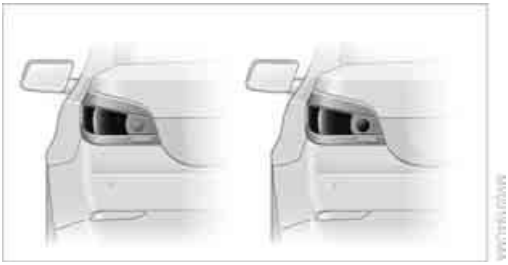
1. Start the engine.
2. With the vehicle stationary, turn the steering wheel from the straight-ahead position to the left as far as it will go and then back to the straight-ahead position.
3. Switch off the engine.

When you start the engine again, all the functions of the active steering are available once again.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Brake Force Display

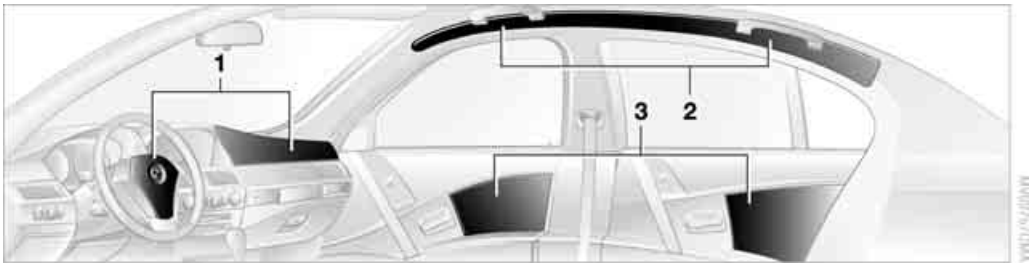
The Brake Force Display lights up in two stages depending on how strongly you brake.



- ▷ Normal braking: the brake lamps and the center brake lamps light up.
- ▷ Forceful braking or braking with ABS: the illuminated area of the rear brake lamps also increases.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Airbags



The following airbags are located under the marked covers:

1 Front airbags for driver and front passenger

2 Head airbags in front and rear

3 Side airbags in front and rear

Protective action

To ensure that the safety systems continue to provide optimized protection, please observe the adjustment instructions on page 38.◀

The front airbags help protect the driver and front passenger by responding to frontal impacts in which safety belts alone cannot provide adequate restraint. When needed, the head and side airbags help provide protection in the event of side impact. The relevant side airbag supports the side upper body area. The head air bag supports the head.

The airbags are deliberately not triggered in every impact situation, e.g. less severe accidents, certain roll-over conditions, or rear-end collisions.

The rear seat side airbags may already have been deactivated by a BMW center. Labels in the rear door opening should indicate the status of your rear seat side airbags. If you are uncertain of their status, or wish to have the airbags activated or deactivated, please contact your BMW center.◀

For information on the correct sitting position, refer to page 38.

Do not apply adhesive materials to the cover panels of the airbags, cover them or modify them in any other way. Do not attempt to remove the airbag retention system from the vehicle. Never modify or tamper with either the wiring or the individual components in the airbag system. This category includes the upholstery in the center of the steering wheel, on the instrument panel, the side trim panels on the doors and the roof pillars along with the sides of the headliner. Do not attempt to remove or dismantle the steering wheel. Do not touch the individual components immediately after the system has been triggered, because there is a danger of burns. In the event of malfunctions, deactivation, or triggering of the airbag restraint system, have the testing, repair, removal, and disposal of airbag generators executed only by a BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel and has the required explosives licenses. Unprofessional attempts to service the system could lead to failure in an emergency or undesired airbag activation, either of which could result in personal injury.◀

Airbag warning information is also provided on the sun visors.

Automatic deactivation of front passenger airbags

Your BMW has a seat occupation detection system. By evaluating the weight on the front passenger seat, the system detects whether or not the seat is occupied by a child in the child-restraint system or an adult.

▷ When a child is seated in the child-restraint system or with an empty seat, the front and side airbags are automatically deactivated on the passenger side.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

▷ When an adult is traveling in the front seat, the front and side airbags remain active on the passenger side.

⚠ Although not desired, it can occur in the case of heavier children that the front passenger airbags remain active or in the case of very light adults or young persons that the front passenger airbags are deactivated. In these cases, have the person ride in the rear seat, refer to Passenger airbag status lamp below. Do not load the passenger seat with any items in addition to the person to be transported. Do not fit seat covers, seat cushion padding, ball mats or other items onto the front passenger seat unless they are specifically recommended by BMW. Do not place any items under the seat. Otherwise, the function of the seat occupation detection could be impaired.◀

Operational readiness of airbag system

As of ignition key position of 1, the warning lamp lights up briefly, thus indicating the operational readiness of the entire airbag system and the safety belt tensioners.

Airbag system malfunction

▷ The warning lamp does not light up as of ignition key position 1.

▷ Warning lamp lights up continuously.

⚠ A malfunction could prevent the airbag system from responding in the expected manner to an impact occurring within its normal response range.◀

Passenger airbag status lamp

The indicator lamp located above the rear view mirror indicates whether the front passenger airbag system is active or not active/OFF.

▷ The indicator lamp is used only for the front passenger airbag system. The indicator lamp illuminates to show that the front passenger airbag system is OFF/not active.◀

▷ The lamp illuminates briefly during startup, but then goes out if the seat is empty, or an adult or child of sufficient size is detected.

▷ The lamp remains illuminated when a child in a rear facing child-restraint system is detected and indicates that the passenger airbag system is off.

▷ If the lamp is illuminated when the seat is occupied by a very light adult or teenager, it is recommended that the person sit in the rear.◀

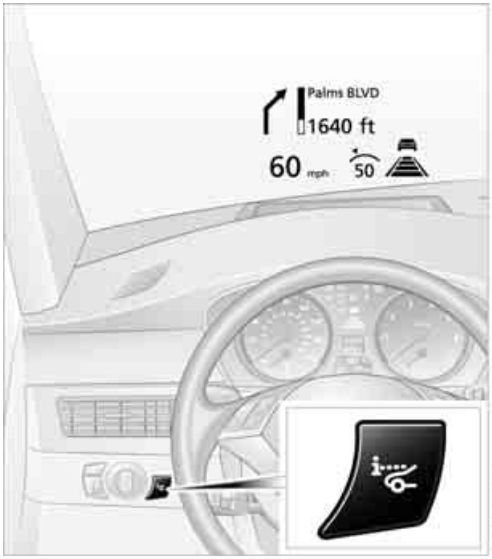
Find more information about passenger airbag system and seat occupancy detection in the section Automatic deactivation of front passenger airbags above.

Head-Up Display*

The concept

With the Head-Up Display important information is projected into the driver's field of view, e.g. navigation instructions. This enables you to take in this information without looking away from the road.

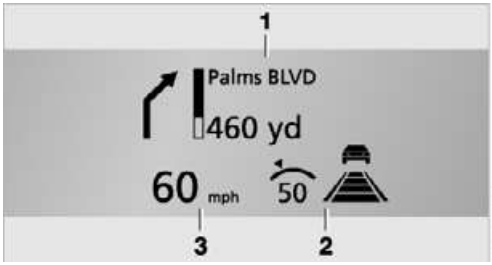
Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG



Switching on/off

With the ignition key in position 2:

Press the button to activate or deactivate Head-Up Display.



1 Navigation instructions

2 Display

- ▷ Cruise control
- ▷ Active cruise control

3 Speed

Selecting displays

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Press the controller to open the i menu.
3. Select "Display settings" and press the controller.
4. Select "Head-Up Display selection" and press the controller.
5. Select desired information of Head-Up Display.

6. Press the controller.
   ☑ The information is shown on the Head-Up Display.

The settings are stored for the remote control currently in use.

Setting brightness

The brightness of the display is automatically adapted to the ambient lighting conditions. However, you can change the base setting. With the low beams switched on, the brightness can also be adjusted with the serrated dial of the instrument lighting.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Display settings" and press the controller.
3. Select "Brightness" and press the controller.

4. Move the controller to the left to select "Head-Up Display Offset".
5. Turn the controller until the desired setting is selected.

The setting for the remote control currently in use is stored.

Notes

The visibility of the displays in the Head-Up Display is influenced by:

- ▷ Sunglasses with certain polarization filters
- ▷ Certain seating positions
- ▷ Objects on the cover of the Head-Up Display
- ▷ Wet road surface and unfavorable lighting conditions

If the image is distorted, please have the basic setting checked at a BMW center.

Special windshield

The windshield is part of the system. The shape of the windshield complies with the requirements of the Head-Up Display to enable a precise display. A film in the windshield prevents the double images from being displayed. Windshield replacement should be carried out by a BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.

Care instructions

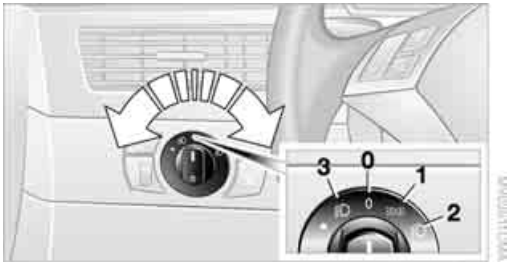
You can find everything you need to know on this topic by consulting the separate Caring for your vehicle brochure.

Only clean the cover of the Head-Up Display with a soft, lint-free cloth or with a display cleaning cloth, as otherwise damage may result.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Lamps

Parking lamps/low beams



0 Lights off

1 Parking lamps

2 Low beams/daytime driving lamps*

3 Automatic headlamp control*/ Adaptive Head Light*

Parking lamps

In switch position **1**, the front, rear and side vehicle lighting is switched on. You can use the parking lamps for parking. For lighting on one side for parking as an additional feature, refer to page 88.

Low beams

The low beams are activated in switch position **2** only when the engine is running, otherwise only the parking lamps are switched on.

Pathway lighting

If the vehicle is parked and the headlamps are switched off, operating the headlamp flasher activates the low beams. You can set the duration on the Control Display or deactivate the function.

Control Center, for principle details, refer to page 16.

1. Open the i menu.
2. Select "Vehicle settings" and press the controller.
3. Select "Light" and press the controller.

4. Select "Pathway lighting" and press the controller.
5. Turn the controller to select the corresponding duration.
6. Press the controller to apply the setting.

Lights on warning

If you turn the ignition key to position 0, an acoustic signal sounds when you open the driver's door for a few seconds to remind you that the light has not yet been switched off. At the same time a message appears on the Control Display.

Daytime driving lamps*

If so desired, you can leave the light switch in the low beam position **2**.

Always observe all applicable laws governing the use of daytime driving lamps.

You can switch on the parking lamps when needed using the standard procedure described under Parking lamps.

Automatic headlamp control*

In the switch position **3**, the system activates and switches on and off the low beams in response to changes in ambient light conditions, for instance, in a tunnel, at dawn and dusk, and in rain or snow. Adaptive Head Light* is active. The LED next to the symbol is illuminated when the low beams are on.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

The low beams remain switched on independent of the ambient lighting conditions when you switch on the fog lamps.
With the daytime driving lamps* activated, the low beams are always switched on when the ignition key is in position 2.◀

The automatic headlamp control cannot serve as a substitute for your personal judgment in determining when the lamps should be switched on in response to ambient lighting conditions. For example, the system cannot detect fog. To avoid safety risks, you should always switch on the lamps manually under these conditions.◀

Adaptive Head Light*

The concept

Adaptive Head Light is a variable headlamp control system that enables better illumination of the road surface. Depending on the steering angle and other assumptions, the light from the headlamp follows the course of the road.

Activating Adaptive Head Light

In the switch position **3**, the Adaptive Head Light is active and the automatic headlamp control* is switched on.

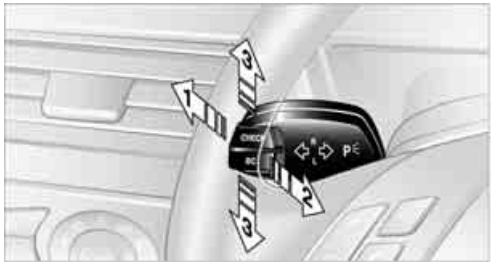
To avoid blinding oncoming traffic, the Adaptive Head Light

- is not active when driving in reverse
- is only active toward passenger side when stationary

Malfunction

The LED next to the symbol for automatic headlamp control flashes. Adaptive Head Light is faulty or has failed. Have the system checked as soon as possible.

High beams/roadside parking lamps



1 High beams

2 Headlamp flasher

3 Roadside parking lamps

Roadside parking lamps, left or right*

You also enjoy the option of lighting up just one side of your vehicle when parking. When using this function, comply with national regulations:

With the ignition off, press the lever in the desired direction **3**, past the resistance point.

The roadside parking lamps drain the battery. Do not switch them on for long periods of time, otherwise it may no longer be possible to start the engine.◀

Front fog lamps

The parking lamps or low beams must be switched on for the fog lamps to operate. The green indicator lamp in the instrument cluster lights up whenever the fog lamps are on.

The fog lamps are switched off whenever the high beams are switched on.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

If the automatic headlamp control is activated, the low beams will come on automatically when you switch on the fog lamps.◀

Instrument lighting

You can control the lighting intensity by using the serrated dial.

Interior lamps

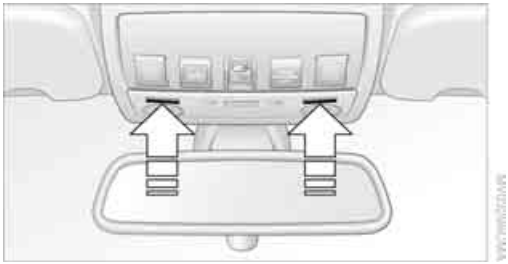
The interior lamps, footwell lamps, door entry lighting and courtesy lamps* are controlled automatically.

Switching interior lamps on and off manually

Press the button.

If you want the interior lamps to remain off continuously, maintain pressure on the button for approx. 3 seconds.

Reading lamps

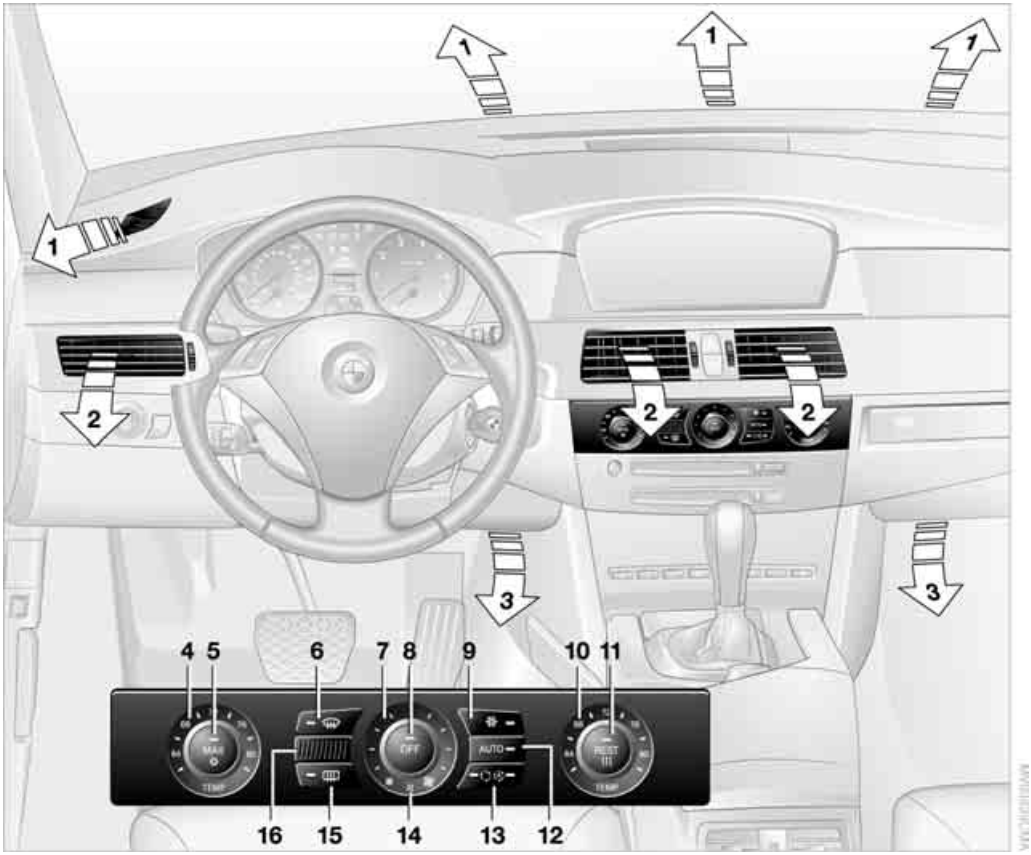


Reading lamps are provided in the front and rear adjacent to the interior lamps. Press the button to activate or deactivate this system.

To avoid draining the battery, all of the vehicle's interior lamps are automatically switched off approx. 15 minutes after the ignition is switched off.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

A congenial climate



1 Airflow directed toward the windshield and side windows

2 Air for the upper body region, refer to Front ventilation on page 93

3 Air to footwell

4 Temperature, left side of passenger compartment

5 Maximum cooling

6 Defrosting windows and removing condensation

7 Air volume, manual

8 Switching off automatic climate control

9 Switching cooling on and off manually

10 Temperature, right side of passenger compartment

11 Residual heat mode

12 AUTO program

13 AUC Automatic recirculated-air control/ Recirculated-air mode

14 LED for independent ventilation

15 Rear window defroster

16 Air grill for interior temperature sensor – please keep clear and unobstructed

The current setting for air distribution is displayed on the Control Display.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

A congenial climate

For almost all conditions, the AUTO program offers the optimal air distribution and air volume. Select an interior temperature you find pleasant.

The following section contains more detailed information on the available setting options.

AUTO program

The AUTO program handles the adjustment of air distribution to the windshield and side windows, in the direction of the upper body, and in the footwell, as well as the adjustment of the air volume. It also adapts your instructions for the temperature to outside influences throughout the year.

The cooling is switched on automatically with the AUTO program. At the same time, a condensation sensor controls the program in such a way that window condensation is prevented as much as possible.

Adjusting temperature

You can also set the desired temperature on the driver's side and the passenger side by turning the knob.

When you start driving, the system ensures that the selected temperature is achieved as quickly as possible. It then maintains this temperature, regardless of the season.

Defrosting windows and removing condensation

This program quickly removes ice and condensation from the windshield and front side windows.

Air volume, manual

You can adjust the air volume by turning. You can reactivate the automatic mode for the air volume with the AUTO button.

Switching cooling function on and off manually

The cooling function cools and dehumidifies the incoming air before also reheating it as required, according to the temperature setting. Depending on the weather, the windshield may fog over briefly when the engine is started.

The cooling function is only available when the engine is running and is switched on automatically with the AUTO program.

Maximum cooling

This program quickly provides maximum cooling.
The system switches to the recirculated-air mode and the air flows at maximum air volume only from the air vent outlets for the upper body area. For this reason you should ensure that these vent outlets are open before selecting this program.

AUC Automatic recirculated-air control/Recirculated-air mode

You can respond to pollutants or unpleasant odors in the immediate environment by suspending the supply of outside air. The system then recirculates the air currently within the vehicle. During AUC operation, a sensor detects pollutants in the outside air and controls the shut-off automatically.

By pressing the button repeatedly, you can request three operating modes:

- ▷ LED off: outside air flows in continuously.
- ▷ Right LED on, AUC mode: the system detects pollutants in the outside air and shuts off the supply as needed.
- ▷ Left LED on, recirculated-air mode: the supply of outside air is permanently shut off.

⚠ If condensation starts to form on the inside window surfaces during operation in the recirculated-air mode, you should switch it off while also increasing the air volume as required.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

The recirculated-air mode should not be used over an extended period of time, as the air quality inside the vehicle deteriorates continuously.◀

Residual heat mode

Press this button when the engine is switched off, but warm.

The heat stored in the engine is used to heat the passenger compartment, e.g. while stopped at a school to pick up a child.

You can adjust the automatic climate control settings in ignition key position 1.

Provided that the engine has warmed to its normal operating temperature and the battery is charged, you can use this function for up to 15 minutes after switching off the ignition. The LED in the button lights up to confirm compliance with both of these conditions.

Switching off automatic climate control

The air volume, the heater and the cooling function are all switched off.

You can restart the automatic climate control by pressing any of its buttons except the REST button.

Settings using Control Center

Ignition key:

- ▷ On vehicles with separate drives for audio CDs and navigation DVDs, ignition key in position 2
- ▷ In vehicles with one drive for audio CDs, ignition key in position 1

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Move the controller to the left to open "Climate".

You can set the following:

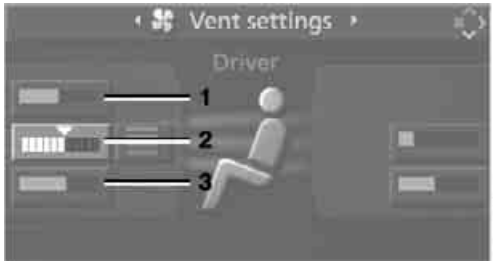
- ▷ Manual air distribution, separate for driver's side and passenger side
- ▷ Adjusting temperature in upper body region
- ▷ Intensity of the AUTO program

The settings are stored for the remote control currently in use.

Manual air distribution

You can preset your air distribution yourself and also individually adjust the air temperature in the upper body area.

1. Select "Vent settings" and press the controller.
2. Move the controller to select the desired field and turn the controller to adjust the air distribution.



1 Airflow directed toward the windshield and side windows, driver's side only

2 Airflow for the upper body

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

3 Air to footwell

In order to select the passenger region: Move controller toward the right.

Pressing the AUTO button cancels the air distribution settings on the Control Display and vice versa.◀

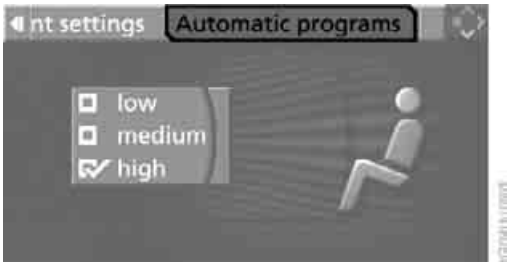
Adjusting temperature in upper body region

1. Select "Vent settings" and press the controller.
2. Select the field by moving the controller and turning the controller to adjust the temperature.

Setting intensity of AUTO program

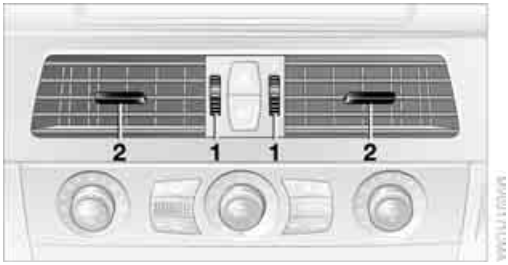
To meet your individual needs, you can weaken or strengthen the intensity of the automatic climate control.

1. Select "Automatic programs" and press the controller.



2. Select the desired intensity and press the controller.

Front ventilation



1 Use the serrated dials to smoothly open and close air vents

2 Use the lever to change the air vent direction

Do not drop any foreign bodies into the vent outlets, as otherwise these could be catapulted outwards and lead to injuries.◀

Ventilation for cooling

Adjust the vent outlets to direct the flow of cool air in your direction, for instance, if the interior has become too warm, etc.

Draft-free ventilation

Set the vent outlets so that the air flows past you and is not directed straight at you.

Rear ventilation

1 Use the serrated dial to smoothly open and close air vents

2 Use the serrated dial to adjust the temperature:

- ▷ Turn toward blue: colder
- ▷ Turn toward red: warmer

3 Use the lever to change the air vent direction

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Microfilter/activated-charcoal filter

The microfilter removes dust and pollen from the incoming air. The activated-charcoal filter provides additional protection by filtering gaseous pollutants from the outside air. Your BMW center replaces this combined filter as a standard part of your scheduled maintenance.
You can select a display of more detailed information on the Control Display, refer to page 66.

Independent ventilation*

The independent ventilation blows air into the passenger compartment to lower interior temperatures.

The independent ventilation is controlled using the Control Center. You can set two different times for the system to start.

The independent ventilation remains on for 30 minutes. It can also be switched on and off directly. Since the system uses a substantial amount of electrical current, you should refrain from activating it twice in succession without allowing the battery to be recharged in normal operation between use.

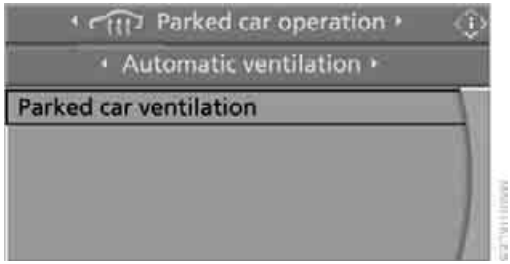
The independent ventilation is ready for use at any outside temperature, up to ignition key position 1.

The air emerges through the upper body region vent outlets in the instrument panel. These vent outlets must be open for the system to operate.

Switching on and off directly

Control Center, for principle details, refer to page 16.

1. Open "Climate".
2. Select "Parked car operation" and press the controller.
3. Select "Automatic ventilation" and press the controller.
4. Select "Parked car ventilation" and press the controller.



Independent ventilation is switched on and the LED flashes.

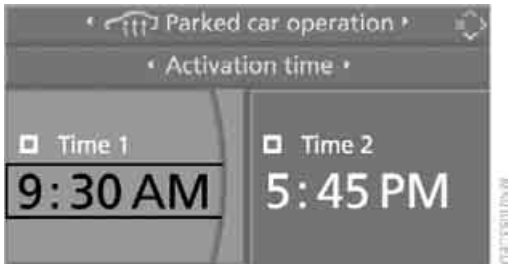
Preselecting activation times

Control Center, for principle details, refer to page 16.

1. Open "Climate".
2. Select "Parked car operation" and press the controller.
3. Select "Activation time" and press the controller.

If you select two activation times that are in sequence, they must differ by at least 31 minutes.◀

4. Move the controller to the left or right to select "Time 1" or "Time 2".
5. Select the time and press the controller. The first time setting is highlighted.

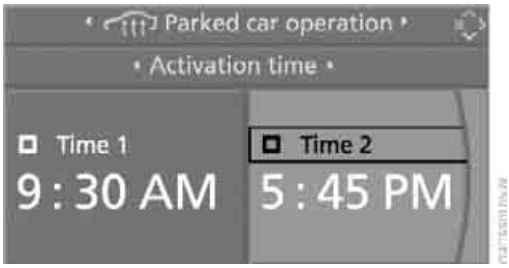


6. Turn the controller to make the adjustment.
7. Press the controller to apply the setting. The next setting is highlighted.
8. Make the remaining adjustments. After the last adjustment, the time is stored.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Activating timer

Move the controller to the left or right to select "Time 1" or "Time 2" and press the controller.



The activation time is activated and the LED lights up.

The independent ventilation is only available for activation within the next 24 hours. After that, the time must be reactivated.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Practical interior accessories

Integrated universal remote control*

The concept

The integrated universal remote control can replace as many as three hand-held transmitters for various remote-controlled accessories, such as door openers and house alarm systems. The integrated universal remote control registers and stores signals from the original hand-held transmitters.

The signal of an original hand-held transmitter can be programmed on one of the three memory buttons **1**. Then with the ignition key in position 2, this programmed memory button **1** can be used to operate the relevant accessory. The LED **2** flashes to confirm transmission of the signal.

Should you sell your vehicle one day, be sure to delete the stored programs beforehand for your safety, refer to page 97.

To prevent possible damage or injury, before programming or using the integrated universal remote control, always inspect the immediate area to make certain that no people, animals or objects are within the travel range of the device. Also, comply with the safety precautions of the original hand-held transmitter.◀

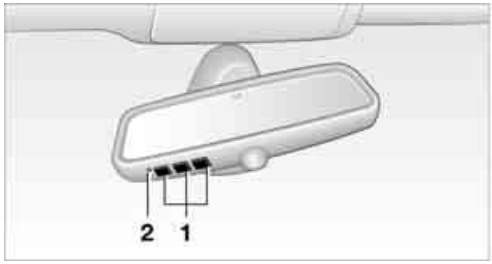
Checking compatibility

If you see this symbol on the packaging or in the manual supplied with the original hand-held transmitter, it is safe to assume that it is compatible with the integrated universal remote control.

If you have additional questions, please consult your BMW center or call 1-800-355-3515.
You can also visit these websites:
www.bmwusa.com or
www.homelink.com.

HomeLink is a registered trademark owned by Johnson Controls, Inc.◀

Programming



1 Memory buttons

2 LED

Fixed-code hand-held transmitters

1. Ignition key in position 2.
2. When starting operation for the first time: Press both outer buttons **1** for approx. 20 seconds until the LED **2** flashes. The three memory buttons **1** are cleared.
3. Hold the original hand-held transmitter at a distance of approx. 2 in/5 cm to 8 in/20 cm from the memory buttons **1**.

   The required distance between the hand-held transmitter and the memory buttons **1** depends on the relevant system of the original hand-held transmitter used.◀
4. Simultaneously press the transmit key on the original hand-held transmitter and the desired memory button **1** on the integrated universal remote control. The LED **2** flashes slowly at first. As soon as the LED **2** flashes rapidly, release both buttons. If the LED **2** does not flash rapidly after approx. 15 seconds, alter the distance.
5. To program other original hand-held transmitters, repeat steps 3 and 4.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

The corresponding memory button **1** is now programmed with the signal of the original hand-held transmitter.

You can operate the system with the ignition key in position 2.

If the device can not be operated after repeated programming, check whether the original hand-held transmitter uses an alternating-code system. To do so, either read the instructions for the original hand-held transmitter or hold down the programmed memory button **1** of the integrated universal remote control. If the LED **2** on the integrated universal remote control flashes rapidly for a short time and then remains lit for approx. 2 seconds, this indicates that the original hand-held transmitter uses an alternating-code system. In the case of an alternating-code system, program the memory buttons **1** as described at Alternating-code transmitters.◀

Alternating-code transmitters

To program the integrated universal remote control, consult the operating instructions for the equipment to be set. You will find information there on the possibilities for synchronization.
When programming hand-held transmitters that employ an alternating code, please observe the following supplementary instructions:

Programming will be easier with the aid of a second person.◀

1. Park your vehicle within the range of the remote-controlled device.
2. Program the integrated universal remote control as described above in the section Fixed-code hand-held transmitters.
3. Locate the button on the receiver of the device to be set, e.g. on the drive unit.
4. Press the button on the receiver of the device to be set. After step 4, you have approx. 30 seconds for step 5.
5. Press the programmed memory button **1** of the integrated universal remote control three times.

The corresponding memory button **1** is now programmed with the signal of the original hand-held transmitter.

Clearing memory buttons

Press both outer buttons **1** for approx. 20 seconds until the LED **2** flashes: all memory buttons are cleared.

The memory of individual memory buttons **1** cannot be cleared.

Roller sun blinds*

Rear window blind

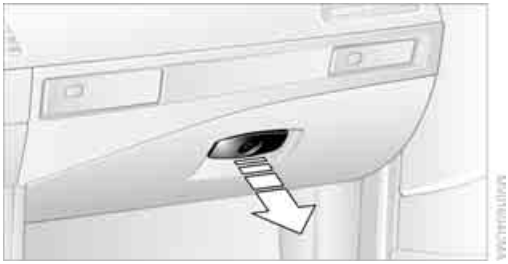
Press the button on the driver's door.

Roller sun blinds for rear side windows

Pull the loop of the roller sun blind and hook onto bracket.

Glove compartment

Opening



Pull the handle. The light in the glove compartment switches on.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Closing

Fold the cover up.

To prevent injury in the event of an accident while the vehicle is being driven, close the glove compartment immediately after use.◀

Locking

Lock with a master key. Unlocking is also only possible with a master key.

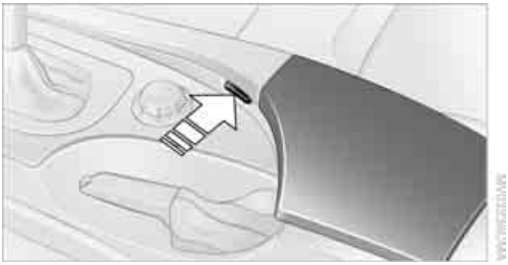
If you only hand over the spare key, e.g. for valet parking, refer to page 28, the glove compartment cannot be unlocked.◀

Rechargeable flashlight

The flashlight is located on the left side of the glove compartment.
The flashlight can remain plugged in continuously.

Be sure that the flashlight is switched off when it is inserted into its holder. Failure to comply with this precaution could lead to overcharging and damage.◀

Center armrest



A storage compartment is located in the armrest between the front seats.

Open cover:
Press button. The cover opens and can be folded upwards.

The mat in the compartment can be removed for cleaning.

Depending on the model, the storage compartment contains a folding tray or a telephone cradle*.

Open compartment:
Press button and fold cover upward.

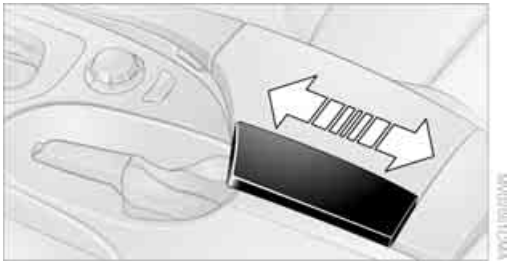
The folding tray and telephone cradle* can be folded upward to enable use of the lower area of the storage compartment.

Ventilating storage compartment in front armrest

1. Fold the folding tray or telephone cradle* upward.
2. Open or close the slider in the storage compartment.

Depending on the automatic climate control setting, the temperature inside the storage compartment may be higher than in the rest of the interior. Close the vent as needed.◀

Adjusting



Slide the center armrest into the desired position.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Storage compartments

Storage compartment on center console between front seats

Open by pressing the cover back.

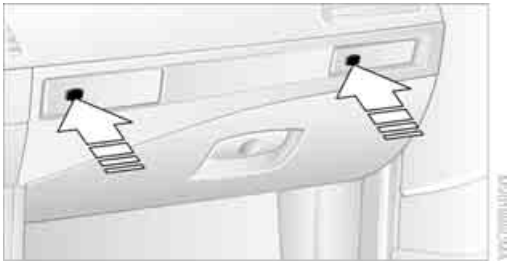
Other compartments

There are other compartments in the doors as well as in the front and rear center console. Storage nets are located on the backrests of the front seats.

Clothes hooks

When suspending clothing from the hooks ensure that it will not obstruct the driver's vision. Do not hang heavy objects on the hooks. If you do so, they could cause personal injury to occupants during braking or evasive maneuvers.◀

Cup holders



Opening:
Briefly press the button.

Do not place containers made of glass in the cup holders. This would lead to an increased risk of injury in the event of an accident.◀

Closing:
Press the cover in the center and push in the cup holder.

Ashtray, front

Opening

Slide back the cover.

Emptying

Push the ashtray toward the front: the ashtray lifts and can be removed.

Cigarette lighter, front

In ignition key position 2, press in the cigarette lighter.

The lighter can be removed as soon as it pops back out.

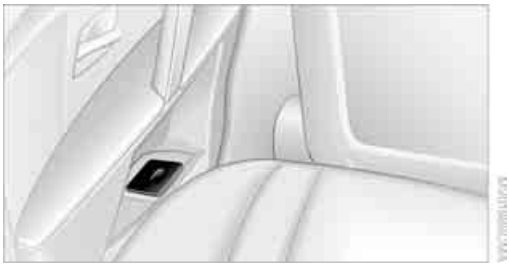
Hold or touch the hot cigarette lighter by the knob only. Holding or touching it in other areas could result in burns.
Always remove the ignition key when you leave the vehicle so that, e.g., children are unable to use the lighter and burn themselves.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Sockets

With the ignition key in position 2, the cigarette lighter socket can be used as a power outlet for hand flashlights, car vacuum cleaners, etc., with power ratings of up to approx. 200 W at 12 V. Avoid damaging the socket due to inserting plugs of different shapes or sizes. The same is true for all power outlets in the vehicle.

Ashtray, rear



Emptying

Press the entire cover down. The ashtray rises and can be removed.

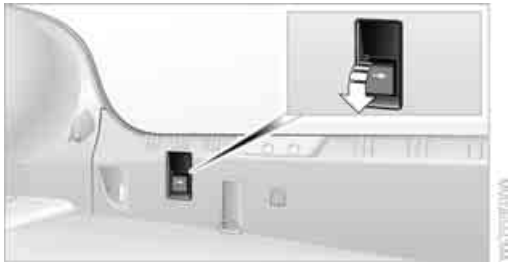
Cigarette lighter, rear

Refer to Cigarette lighter, front.

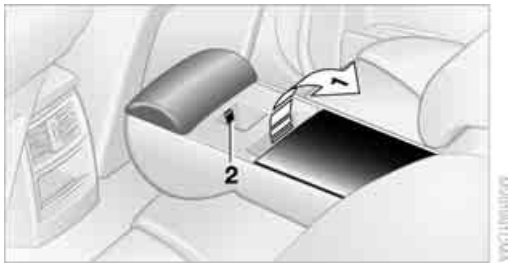
Sockets

In front passenger footwell

In luggage compartment



Center armrest, rear



1 Storage tray:
Pull upward

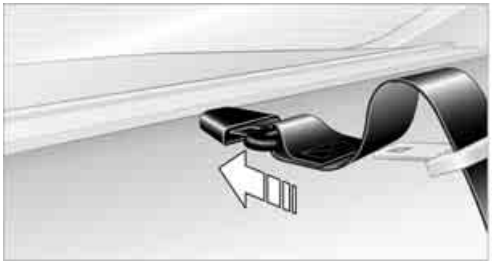
2 Open cup holder:
Press and open cover

Folding down the center armrest improves vision toward the rear.

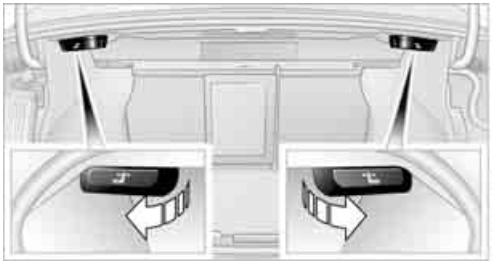
Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Folding down rear seat*

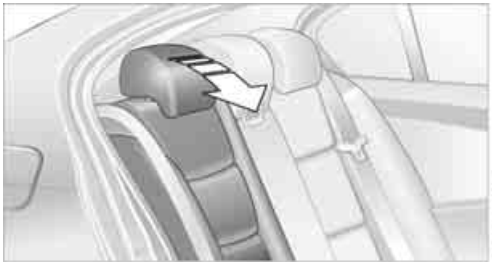
1. Open the buckle of the center safety belt in the rear and insert the belt tab at the end of the belt into the fixture on the rear window shelf.



2. Push the corresponding head restraint down as far as it will go, refer to page 42.
3. To unlock, pull the corresponding lever in the luggage compartment.



4. The unlocked rear seat back moves forward slightly. Fold the seat back forward by the head restraint.



When you return the seat back to its upright position, make sure that the retainer engages properly. If it is not properly engaged, transported cargo could enter the vehicle during braking or evasive maneuvers and endanger the vehicle occupants.◀

The lashing eyes in the luggage compartment provide you with a way to attach luggage compartment nets* or flexible straps for securing suitcases and luggage, refer to page 109.

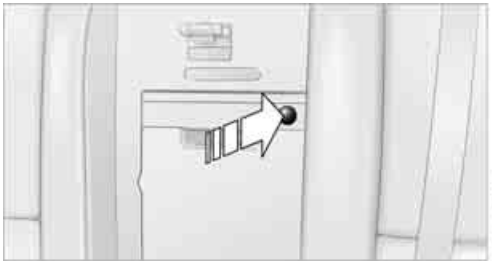
Ski bag*

Designed for safe, clean transport of up to 4 pairs of standard skis or up to 2 snowboards.

With the ski bag you can stow skis with a length of up to 6.9 ft/2.10 m. When skis of 6.9 ft/2.10 m in length are loaded, the ski bag will tend to contract, reducing its overall capacity.

Loading

1. Fold down the center armrest, press the button and open the cover.



2. Press the button again; the cover in the luggage compartment opens. If you press the button firmly the first time, this also opens the cover in the luggage compartment
3. Extend the ski bag between the front seats and fill it. The zipper facilitates access to the stowed items and drying of the ski bag.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Insert the belt tab of the ski bag retaining strap into the center safety belt buckle that is marked CENTER.

Make sure to load only cleans skis into the ski bag. Wrap sharp edges to prevent damage.

Securing cargo

After loading, secure the ski bag and its contents. Tighten the retaining strap on the tensioning buckle for this purpose.

Secure the ski bag in this way. If you fail to do so, it could move around and endanger occupants during braking or evasive maneuvers.◀

To store the ski bag, perform the above steps in reverse order.

Removing ski bag

The ski bag can be completely removed, e.g. for faster drying or to allow you to put it to other uses.

Your BMW center will be glad to provide you with more detailed information on the various items of equipment.◀

1. Pull the handle forward and pull the ski bag up and out.
2. Close the cover in the luggage compartment.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Driving tips

This section is designed to provide you with extra support by supplying information useful in dealing with specific driving and operating conditions.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Things to remember when driving

Break-in period

Moving parts need breaking-in time to adjust to each other. To ensure that your vehicle continues to provide optimized economy of operation throughout an extended service life, we request that you devote careful attention to the following section.

Engine and differential

Up to 1,200 miles/2,000 km:
You should attempt to vary both engine and vehicle speeds. Until the break-in period has been completed, you should also refrain from exceeding an engine speed of 4,500 rpm or a driving speed of 100 mph/160 km/h.

Always obey all official speed limits.

Avoid full-throttle operation and use of the transmission's kick-down mode during these initial miles.

Once you have driven 1,200 miles/2000 km, the engine and vehicle speeds can be gradually increased.

SMG Sequential manual transmission

Do not use the acceleration assistant during the break-in period, refer to page 55.

Tires

Due to technical factors associated with their manufacture, tires do not achieve their full traction potential until after an initial break-in period. Therefore, drive reservedly during the first 200 miles/300 km.

Brake system

Brakes require an initial break-in period of approx. 300 miles/500 km to achieve optimized contact and wear patterns between brake pads and rotors.

Clutch

The function of the clutch is only at its optimized level after a distance driven of approx. 300 miles/500 km. During this break-in period, engage the clutch gently.

Following part replacement

Observe the break-in instructions again if components mentioned above must be replaced after subsequent driving operation.

General driving notes

Closing luggage compartment lid

Operate the vehicle only when the luggage compartment lid is completely closed. Otherwise, exhaust fumes could penetrate to the interior of the vehicle.◀

If special circumstances should make it absolutely necessary to operate the vehicle with the luggage compartment lid open:

1. Close all windows and the glass sunroof.
2. Increase the air volume of the automatic climate control to a high level, refer to page 91.

Hot exhaust system

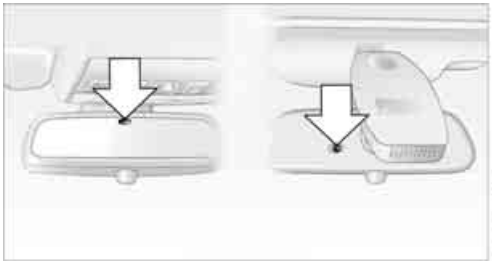
As in all vehicles equipped with a catalytic converter, extremely high temperatures are generated in this vehicle. Do not remove the heat shields installed adjacent to various sections of the exhaust system, and never apply undercoating to them. When driving, standing at idle and while parking take care to avoid possible contact between the hot exhaust system and any highly flammable materials such as hay, leaves, grass, etc. Such contact could lead to a fire, and with it the risk of serious property damage as well as personal injury.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Portable phone in the vehicle

BMW discourages the use of mobile communications devices, e.g. portable phones, inside the vehicle without a direct connection to an outside antenna. Otherwise, the vehicle electronics and mobile communication device can influence one another. In addition, there is no assurance that the radiation which results from transmission will be dissipated from the vehicle interior.◀

Interior and exterior mirrors, automatic dimming feature*



This feature is controlled by two photocells in the inside rearview mirror. One is integrated into the glass of the mirror, while the other is located at an offset position on the rear of the mirror housing.

For trouble-free operation, keep the photocells clean and do not cover the area between the interior rearview mirror and the windshield. Do not attach stickers of any kind to the windshield in front of the mirror, either.

Hydroplaning

When driving on wet or slushy roads, reduce road speed. If you do not, a wedge of water can form between tires and road surface. This phenomenon is referred to as hydroplaning, and is characterized by a partial or complete loss of contact between the tires and the road surface, ultimately undermining your ability to steer and brake the vehicle.◀

The risk of hydroplaning increases as the tread depth of the tires decreases, refer also to Minimum tire tread on page 173.

Driving through water

Do not drive through water on the road if it is deeper than 1 ft/30 cm, and then only at walking speed at the most. Otherwise, the vehicle's engine, the electrical systems and the transmission may be damaged.◀

Using handbrake on inclines

On inclines, do not hold the vehicle with the clutch; use the handbrake. Otherwise greater clutch wear will result.◀

SMG Sequential manual transmission

Start off quickly on slopes. Do not hold the vehicle on a hill by pressing the accelerator, but apply the handbrake instead. Otherwise overheating can occur in the transmission region.◀

Braking safely

Your BMW is equipped with ABS as a standard feature. In situations that require it, it is best to brake with full force. Since the vehicle maintains steering responsiveness, you can still avoid possible obstacles with a minimum of steering effort.

Pulsation of the brake pedal, combined with sounds from the hydraulic circuits, indicate that ABS is in its active mode.

Do not drive with your foot resting on the brake pedal. Even light but consistent pedal pressure can lead to high temperatures, brake wear and possibly even brake failure.◀

Driving in wet conditions

When roads are wet or there is heavy rain, briefly exert gentle pressure on the brake pedal every few miles. Monitor traffic conditions to ensure that this maneuver does not endanger other road users. The heat generated in this process helps dry the pads and rotors to ensure that full braking efficiency will then be available when you need it.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Hills

To prevent overheating and the resulting reduced efficiency of the brake system, drive long or steep downhill gradients in the gear in which the least braking is required. Even light but consistent pedal pressure can lead to high temperatures, brake wear and possibly even brake failure.◀

You can further enhance the engine's braking action by selecting a lower gear in the automatic transmission's manual mode, downshifting as far as first gear on extremely steep stretches, refer to page 56. This strategy helps you avoid placing excessive loads on the brake system.

Never drive with the clutch pressed or allow the vehicle to coast with the transmission in Neutral – or with the engine switched off – there is no engine braking when the transmission is in Neutral, and no power-assist for brakes and steering when the engine is not running.
Never allow floor mats, carpets or any other objects to protrude into the area around the accelerator and brake pedals and obstruct their movement.◀

Corrosion on brake rotors

When the vehicle is driven only occasionally, during extended periods when the vehicle is not used at all, and in operating conditions where brake applications are less frequent, there is an increased tendency for corrosion to form on rotors, while contaminants accumulate on the brake pads. This occurs because the minimum pressure which must be exerted by the pads during brake applications to clean the rotors is not reached.

Should corrosion form on the brake rotors, the brakes will tend to respond with a pulsating effect that even extended application will fail to cure.

When the vehicle is parked

Condensation forms in the air conditioner system during operation, and then exits under the vehicle. Traces of condensed water under the vehicle are therefore normal.

Before driving into a car wash

To prevent the exterior mirrors on this vehicle from being damaged, always fold them in by hand before entering an automatic car wash.

Cargo loading

To avoid loading the tires beyond their approved carrying capacity, never overload the vehicle. Overloading can lead to overheating and increases the rate at which damage develops inside the tires. The ultimate result can assume the form of a sudden blow-out.◀

Determining loading limit

1. Locate the following statement on your vehicle's placard*:

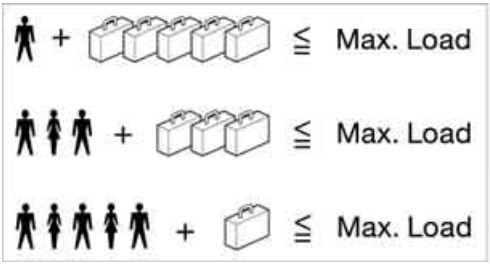
   The combined weight of occupants and cargo should never exceed XXX lbs. or YYY kg. Otherwise, this could damage the vehicle and produce unstable vehicle operating conditions.◀

2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX lbs. or YYY kg.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the XXX amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs.:
   1,400 lbs. minus 750 lbs. = 650 lbs.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

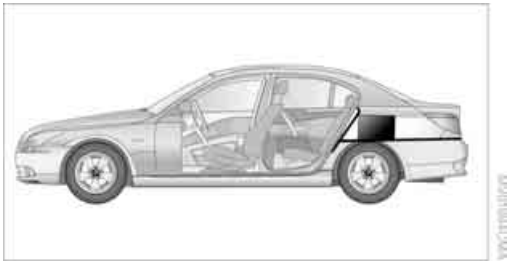
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in step 4.
6. If your vehicle will be towing a trailer, part of the load from your trailer will be transferred to your vehicle. Consult the manual for transporting a trailer to determine how this may reduce the available cargo and luggage load capacity of your vehicle.

Load



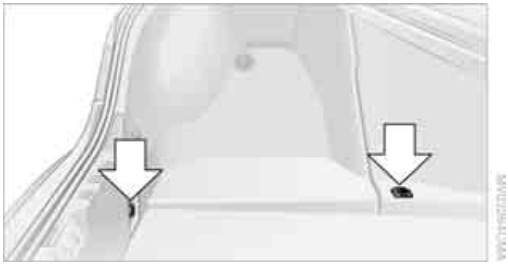
The permitted load is the total of the weight of occupants and cargo/luggage. The greater the weight of occupants, the less cargo/luggage can be transported.

Stowing cargo



- ▷ Load heavy cargo as far forward and as low as possible, placing it directly behind the bulkhead behind the rear seats.
- ▷ Cover sharp edges and corners.
- ▷ For very heavy cargo when the rear seat is not occupied, secure each safety belt in the opposite buckle.

Securing cargo



- ▷ Use the luggage net*, luggage straps, or securing straps to hold down small and lightweight luggage and cargo.
- ▷ Heavy-duty cargo straps* for securing larger and heavier objects are available at your BMW center. Four lashing eyes mounted in the luggage compartment are used to secure this lashing equipment, refer to illustration.
- ▷ Please observe the special instructions supplied with the heavy-duty cargo straps.

⚠ Always position and secure the load as described above. If you do not, it can endanger the passengers during braking or evasive maneuvers.
Never exceed either the approved gross vehicle weight or either of the approved axle loads, refer to page 198, as excessive loads can pose a safety hazard, and may also place you in violation of traffic safety laws.
You should never transport heavy or hard objects unsecured in the passenger compartment, as they could fly around and pose a safety hazard to the vehicle's occupants during abrupt braking or evasive maneuvers.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Roof-mounted luggage rack*

A special rack system is available as an option for your BMW. Please comply with the precautions included with the installation instructions.

Mounting points

The mounting points are located in the door openings.

Loading roof-mounted luggage rack

Because roof racks raise the vehicle's center of gravity when loaded, they have a major effect on its handling and steering response.
You should therefore always remember not to exceed the approved roof weight, the approved gross vehicle weight or the axle loads when loading the rack.

You can find the specified weights on page 198.

The load on the roof must be evenly distributed and must not extend outward to beyond the limits of the loading surface. Always load the heaviest pieces first – at the bottom. Be sure that adequate clearance is maintained for raising the glass sunroof, and that objects do not project into the opening path of the luggage compartment lid.

Secure roof-mounted cargo correctly and securely to prevent it from shifting or falling off during the trip.

Drive smoothly. Avoid sudden acceleration and braking maneuvers. Take corners gently.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Navigation

This chapter describes how you can enter destinations and specify your route so that your navigation system guides you reliably to your destination.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

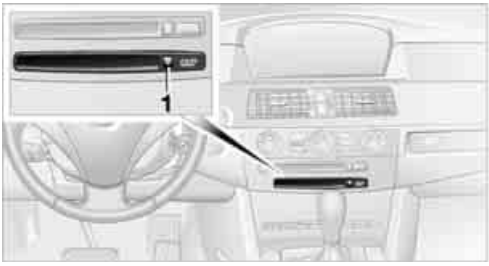
Starting navigation system*

Your navigation system can use satellites to ascertain the precise position of your vehicle and guide you reliably to any destination you enter.

Navigation DVD

Special navigation DVDs are required for each navigation system. You can obtain the latest version at your BMW center.

Inserting navigation DVD



1. Insert the navigation DVD with the labeled side up.
2. Allow approx. 8 seconds for the system to scan the data from the DVD.

Removing navigation DVD

1. Press button **1**.
   The DVD emerges slightly from the drive.
2. Remove the DVD.

Display in assistance window

You can display the route or the current position in the assistance window. This display remains visible even if you change to another application.

1. Move the controller to the right to enter the assistance window.

2. Press the controller.
   Other menu items are displayed.
3. Select the desired view of the route or "Current position".

4. Press the controller.

The contents of the assistance window are continually updated as you drive.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Destination entry

In entering your destination you can select from among the following options:

- ▷ Entering a destination manually, see below
- ▷ Selecting destination via information, refer to page 118
- ▷ Selecting from among recent destinations, refer to Destination list, page 119
- ▷ Selecting destination from address book, refer to page 120.
- ▷ Selecting home address, refer to page 122

After selecting your destination you can proceed to start the destination guidance, refer to page 124.

Operating navigation system

⚠ Enter data only when the vehicle is stationary, and always give priority to the applicable traffic regulations in the event of any contradiction between traffic and road conditions and the instructions issued by the navigation system. If you do not observe this precaution, you may be in violation of the law, and can endanger vehicle occupants and other road users.◀

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Move the controller to the right to open "Navigation".
3. Select "Navigation" and press the controller.

Entering a destination manually

The system supports the word matching principle to make it easier for you to enter the names of streets or towns. This enables input of different spellings and supplements your input automatically so that stored names can be adopted as destinations as quickly as possible.

Control Center, for principle details, refer to page 16.

1. Select "Navigation" and press the controller.
2. Select "New destination" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

3. Select "Enter address" and press the controller.

The system also supports you with the following features:

▷ If you do not enter a street, the system will guide you to the downtown area of a town or city.

▷ You can skip the entry of country and locality if the current entries should be retained for your new destination.

The commands of the voice command system for destination entry differ from those of the individual menu items on the Control Display. You can have the system read aloud the possible voice commands, refer to page 22.

Selecting country

1. Select "State / Province" or the displayed country and press the controller.
   The list of available countries appears on the display.

2. Select the country of destination and press the controller.

In order to be able to start the destination guidance, at least the town/city of the destination or its zip code must be entered.

Entering destination

1. Select "Town / City" or the displayed town/city and press the controller.
2. Select the starting letter and press controller.
   A list of all towns/cities starting with this letter appears on the Control Display.
3. If necessary, input more letters.
   The list gradually grows smaller each time you enter a new letter.

   To input a blank:
   Select the _ symbol and press the controller.

   To delete the letter entered:
   Move controller toward the right to select ⟵, and press controller.

   To delete all letters entered:
   Move controller toward the right to select ⟵, and hold the controller down.

4. Select the town/city name from the list and press the controller.

Inputting destination by postal code

1. Select "Town / City" and press the controller.
2. Input the postal code:
   Select the desired digits and press the controller.

   To delete the number or letter entered:
   Move controller toward the right to select ⟵, and press controller.

   To delete all numbers or letters entered:
   Move controller toward the right to select ⟵, and hold the controller down.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

3. Select the postal code and press the controller.
   The corresponding destination is displayed.
4. Select the destination and press the controller.

Entering street, house number and intersection

1. Select "Street" or the displayed street and press the controller.
2. For instructions on entry, refer to Entering destination.

After the street you can also enter the intersection or the house number.

The intersection is entered in the same way as the street.

To enter the house number:

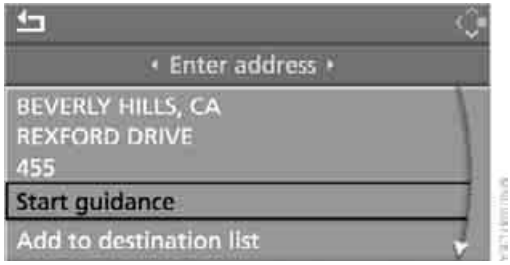
1. Select "House number" and press the controller.
2. To enter the house number:
   Select the desired digits and press the controller.

   To delete the number or letter entered:
   Move controller toward the right to select ⟵, and press controller.

   To delete all numbers or letters entered:
   Move controller toward the right to select ⟵, and hold the controller down.
3. Select the house number and press the controller.

   Only house numbers stored for the street on the navigation DVD can be entered.

Starting destination guidance with manual destination entry



Select "Start guidance" and press the controller.
Destination guidance starts immediately.

If the destination guidance does not need to be started immediately:
Select "Add to destination list" and press the controller.
The destination is saved in the destination list, refer to page 119.

Map-guided destination selection

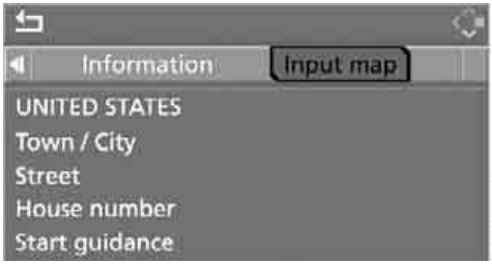
If you only know the name of the town or street of the destination, then you can input the destination by using a map. You can use the cursor to localize the destination on the map and then adopt it into the destination guidance.

Control Center, for principle details, refer to page 16.

1. Select "Navigation" and press the controller.
2. Select "New destination" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

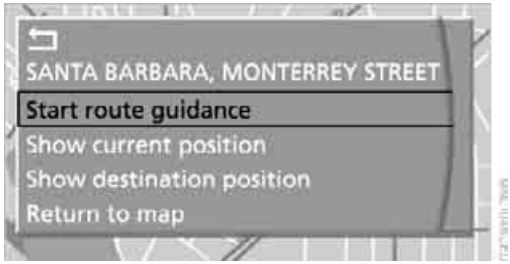
3. Select "Input map" and press the controller.



A section of a map is displayed on the Control Display:

- ▷ During destination guidance, around the current destination
- ▷ With the destination guidance deactivated, around the last destination entered

4. Turn the controller to adjust the scale. To move the map, move the controller in the desired direction.
   The controller can be moved to the left, right, forward, backwards and also diagonally.
5. In order to accept or store the destination at scales smaller than 1 mile/2 km, press the controller.
   The selected destination and other menu items are displayed.
6. Select the desired menu item:
   - ▷ "Start route guidance" switches on the destination guidance.
   - ▷ "Show current position" places the current position in the center of the map.
   - ▷ "Show destination position" places the current destination in the center of the map.
   - ▷ "Return to map" switches back to "Input map".
   - ▷ Exit the menu.



7. Press the controller.

Selecting destination using information

You can obtain a display of selected destinations, e.g. hotels, sights or hospitals, and adopt them into the destination guidance.

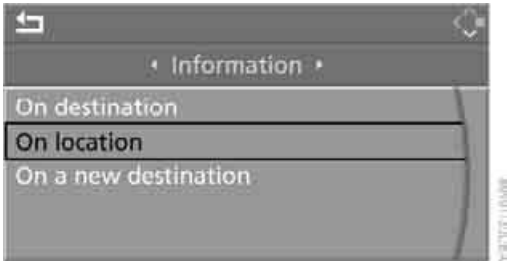
Control Center, for principle details, refer to page 16.

1. Select "Navigation" and press the controller.
2. Select "New destination" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

3. Select "Information" and press the controller.

4. Selecting location:
   - ▷ "On destination"
   - ▷ "On location"
   - ▷ "On a new destination"



5. Press the controller.
6. Select the desired type of destination, such as "Hotels and restaurants".
7. Press the controller.
   Destinations appear on the Control Display, which are sorted alphabetically or according to distance.
8. Select a destination and press the controller.
9. Select a menu item:
   - ▷ To accept the address into the destination list and start the destination guidance:
     Select "Select as destination" and press the controller.
   - ▷ To establish a telephone connection:
     Select "Call" and press the controller.

To exit from the menu:
Select the arrow and press the controller.

Destination list

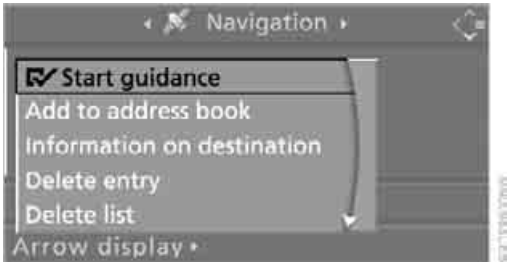
The destination list shows the last 20 entered destinations as well as the current destination of the destination guidance.
This symbol indicates the current destination.

Control Center, for principle details, refer to page 16.

1. Select "Navigation" and press the controller.
2. Select desired destination and press the controller.

3. The selected destination can be edited:
   - ▷ To start the destination guidance:
     Select "Start guidance".
     The destination guidance is started.
   - ▷ To save the entry:
     Select "Add to address book".
   - ▷ To display information about the destination: Select "Information on destination".
   - ▷ To delete the entry:
     Select "Delete entry".
   - ▷ To delete all entries:
     Select "Delete list". The destination guidance is switched off.
   - ▷ To change the entry:
     Select "Edit". For operation, refer to Entering destination, page 116.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

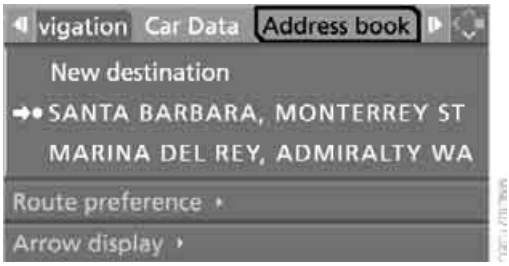


4. Press the controller.

Address book

Opening address book

Control Center, for principle details, refer to page 16.



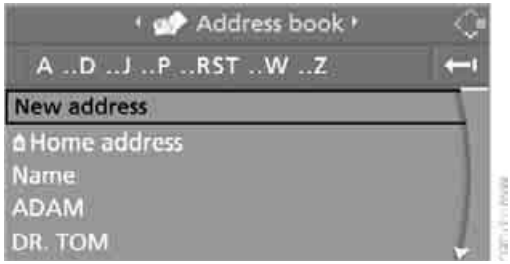
Select "Address book" and press the controller.

Storing destinations in address book

You can save approx. 100 destinations in the address book.

Control Center, for principle details, refer to page 16.

1. Select "Address book" and press the controller.
2. Select "New address" and press the controller



3. Select "Enter address" and press the controller.
4. Input name and address.
5. Select "Store in address book" and press the controller.
   The entry is stored in the address book.

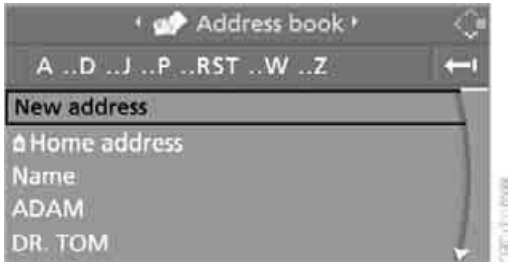
You can also save a destination from the destination list into the address book, refer to page 119.

Storing current position

The current position can be adopted into the address book.

Control Center, for principle details, refer to page 16.

1. Select "Address book" and press the controller.
2. Select "New address" and press the controller.



3. Select "Use current location as address" and press the controller.
   The name given can be changed. For operation, refer to Entering a destination manually, page 115.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

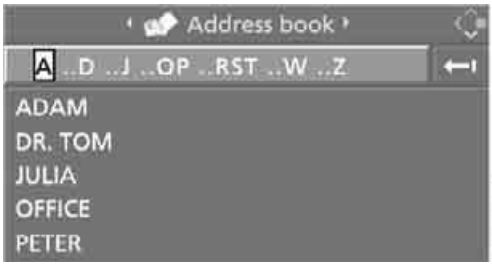
4. Select "Store in address book" and press the controller.

You can also enter your current position into the address book if you have left the sector covered by the navigation DVD. In this case, you must enter a name.

Selecting destinations from address book

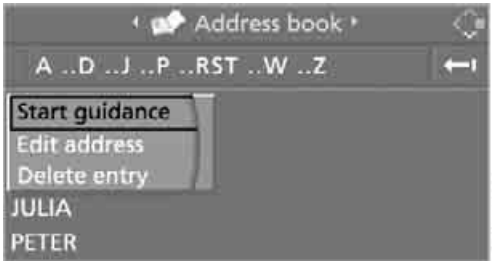
Control Center, for principle details, refer to page 16.

1. Select "Address book" and press the controller.
   The stored entries appear on the Control Display.



2. Select the entry and press the controller.

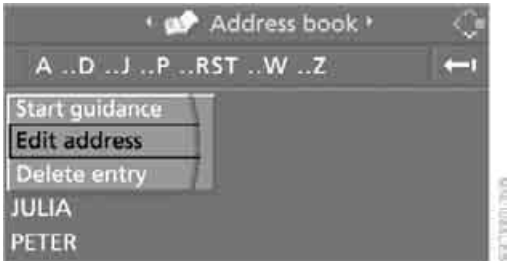
To start the destination guidance:
Select "Start guidance" and press the controller



Changing destinations from address book

Control Center, for principle details, refer to page 16.

1. Select "Address book" and press the controller.
2. Select the entry and press the controller.
3. Select "Edit address" and press the controller.

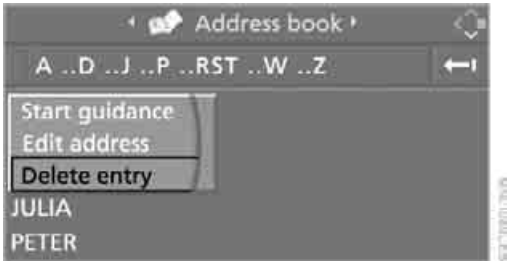


4. Change entry.
   For operation, refer to Entering a destination manually, page 115.

Deleting individual destinations from address book

Control Center, for principle details, refer to page 16.

1. Select "Address book" and press the controller.
2. Select the entry and press the controller.
3. Select "Delete entry" and press the controller.



Deleting all destinations from address book

Control Center, for principle details, refer to page 16.

1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Vehicle settings" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Select "Delete data" and press the controller.

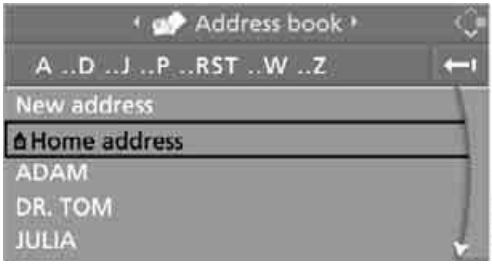
5. Select "Delete address book" and press the controller.
6. Select "Yes" and press the controller.

Storing home address

You can save your current position or the current destination as the home address in the address book. This entry occupies the second position in the address book.

Control Center, for principle details, refer to page 16.

1. Select "Address book" and press the controller.
2. Select "Home address" and press the controller.



Select "Use current location as address" or, during destination guidance, "Save current destination".

3. Press the controller.

In order to accept the home address as the destination:
Select "Start guidance" and press the controller.

To change the entry:
Select "Edit address" and press the controller.
For operation, refer to Entering a destination manually, page 115

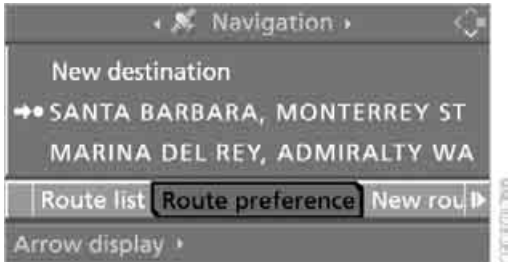
Route selection

You can influence the calculated route by choosing certain route criteria.

Changing route criteria

Control Center, for principle details, refer to page 16.

1. Select "Navigation" and press the controller.
2. Select "Route preference" and press the controller.



The various criteria are listed on the Control Display.

3. Select a route criterion for the route:
   - ▷ "With highways"
     Freeways and major traffic arteries are given priority
   - ▷ "Avoid highways"
     Freeways are avoided where possible
   - ▷ "Fast route"
     Shortest time using combination of smallest possible distance and sections where fast driving is possible
   - ▷ "Short route"
     Shortest distance without consideration of the time

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Press the controller.

The route criterion is highlighted.

5. If necessary, select an additional route criterion and then press the controller:
   - "Dynamic route"
     Automatic changing of the route in response to traffic obstruction. Depending on the type of road and the nature and length of the traffic obstruction, the route can also be calculated so that you travel through the traffic obstruction.
   - "Avoid tollroads"
     Tollroads are avoided where possible
   - "Avoid ferries"
     Ferries are avoided where possible

To exit from the menu:
Select the arrow and press the controller.

The route is planned according to fixed rules. The type of road is taken into account, e.g. whether it is a highway or a winding road. The road types are stored on the navigation DVD. As a result, the routes recommended by the navigation system may not always be the same ones that you would choose based on personal experience.

You can change the choice of route as often as you like while entering the destination and whenever the destination guidance is active.

Word matching principle

The system supports the word matching principle to make it easier for you to enter the names of streets or towns. The system runs ongoing checks, comparing your destination entries with the data stored on the navigation DVD as the basis for instant response. The user benefits include:

- Names of specific locations can also vary from the official versions if you are using a spelling that is customary in another country.

  Example:

  Instead of "München", you can also enter the English spelling "Munich" or the Italian spelling "Monaco".
- When you are entering the names of towns and streets the system will complete them automatically as soon as enough letters are available to ensure unambiguous identification.
- The system only accepts name entries beginning with letters that are stored on the navigation DVD. The system will not accept nonexistent names and addresses.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

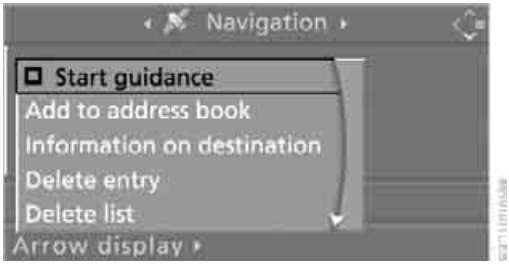
Destination guidance

Starting destination guidance

Control Center, for principle details, refer to page 16.

1. Select "Navigation" and press the controller.
2. Select the destination from the destination list and press the controller or enter a new destination, refer to page 115.

3. Select "Start guidance" and press the controller.



The destination guidance is started.

This symbol indicates the current destination.

After the route has been calculated, destination guidance is indicated by arrows or a route map on the Control Display.

1 Predicted time of arrival

2 Distance to the destination on the calculated route

3 Route criterion

4 Voice instructions switched on/off

During destination guidance, you can operate other equipment using the Control Center at any time. You will be punctually notified of a change of direction by spoken instructions and the display of the direction arrow.

To exit from the menu:

Select the arrow and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Terminating/continuing destination guidance

Control Center, for principle details, refer to page 16.

This symbol indicates the current destination.

1. Select the current destination and press the controller.

2. Select "Start guidance" and press the controller.

The destination guidance is switched off.

When you park the vehicle before reaching the entered destination, upon restarting you will see the question "Continue guidance to destination?".

The destination guidance starts automatically after a short time.

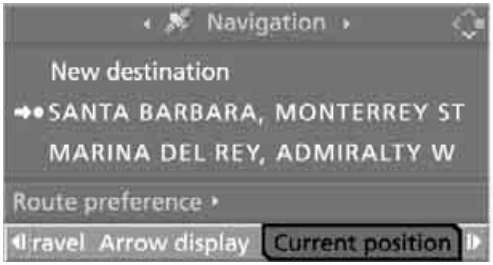
To start the destination guidance:
Select "Yes" and press the controller.

Displaying current position

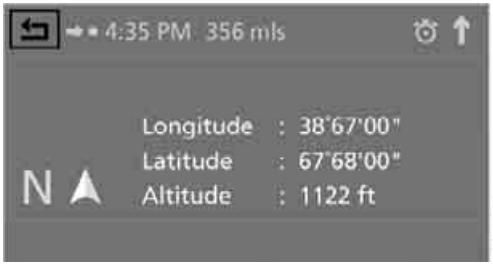
You can have your current position displayed even when the destination guidance is switched off.

Control Center, for principle details, refer to page 16.

1. Select "Navigation" and press the controller.
2. Select "Current position" and press the controller.



The current position of your BMW is displayed.



If the navigation system is unable to identify a town or city, your current map coordinates will appear.

To exit from the menu:
Select the arrow and press the controller.

You can also have the current position displayed on a map, refer to page 126.

Destination guidance through voice instructions

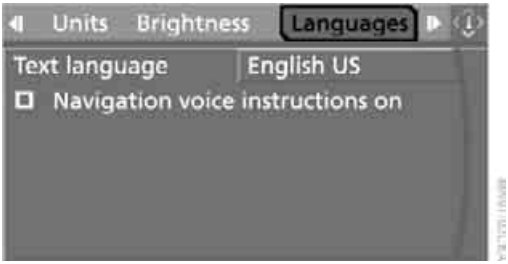
Switching voice instructions on/off

Control Center, for principle details, refer to page 16.

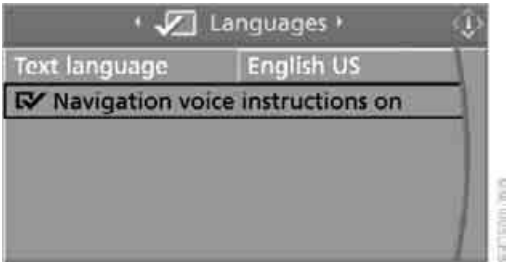
1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Display settings" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Select "Languages" and press the controller.



5. Select "Navigation voice instructions on" and press the controller.



The voice instructions are switched on.

The setting is stored for the remote control currently in use.

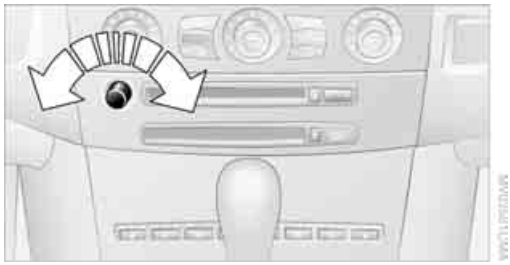
Repeat voice instructions and cancel

With the programmable buttons on the steering wheel, you can also execute the following functions, refer to page 46:

- ▷ Repeat the voice instruction: Press button.
- ▷ Switch voice instructions on/off: Hold the button down.

Adjusting volume

1. Repeat the last voice instruction, if necessary.
2. Turn the button during the voice instruction to select the desired volume.



This volume is independent of the volume of the audio and video sources.

The setting is stored for the remote control currently in use.

Route display

You have the option of displaying various views of the route during destination guidance.

Displaying arrow view

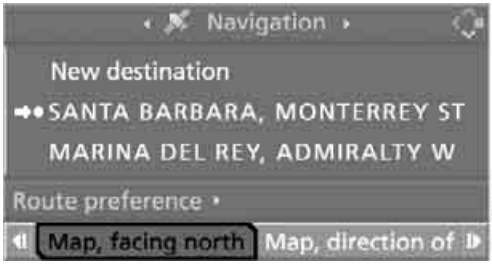
1. Select "Navigation" and press the controller.
2. Select "Arrow display" and press the controller.

Displaying route map

You can have your current position displayed on a map. After starting the destination guidance, the planned route is shown on the map.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

1. Select "Navigation" and press the controller.
2. Select "Map, facing north" or "Map, direction of travel".



3. Press the controller.

At scales of less than 300 miles/500 km, you have the option of deciding whether to orient the map to north or toward your current direction of travel. At scales of 300 miles/500 km or greater, the map always points toward north.

Changing scale

Turn the controller to adjust the scale.

Displaying towns/cities and streets of route

You can have the names of streets and towns/cities on your route displayed whenever the destination guidance is active.

The distances remaining to be traveled on each individual road and directional arrows are also displayed.

Control Center, for principle details, refer to page 16.

1. Select "Navigation" and press the controller.
2. Select "Route list" and press the controller.

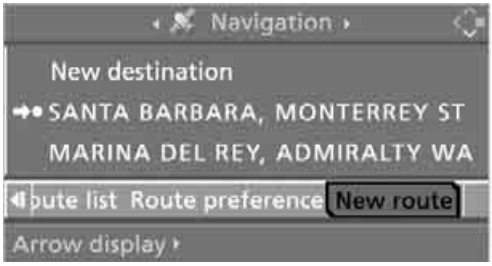
To exit from the menu:
Select the arrow and press the controller.

Bypassing route sections

During destination guidance, you can revise the navigation system's route recommendations to avoid particular stretches of road. Enter the number of miles/kilometers that you want to travel before returning to the original route.

Control Center, for principle details, refer to page 16.

1. Select "New route" and press the controller.



2. Turn the controller to enter the desired number of miles/kilometers and press the controller.

The route is recalculated.
To exit from the menu without changing the route:
Select the arrow and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

What to do if ...

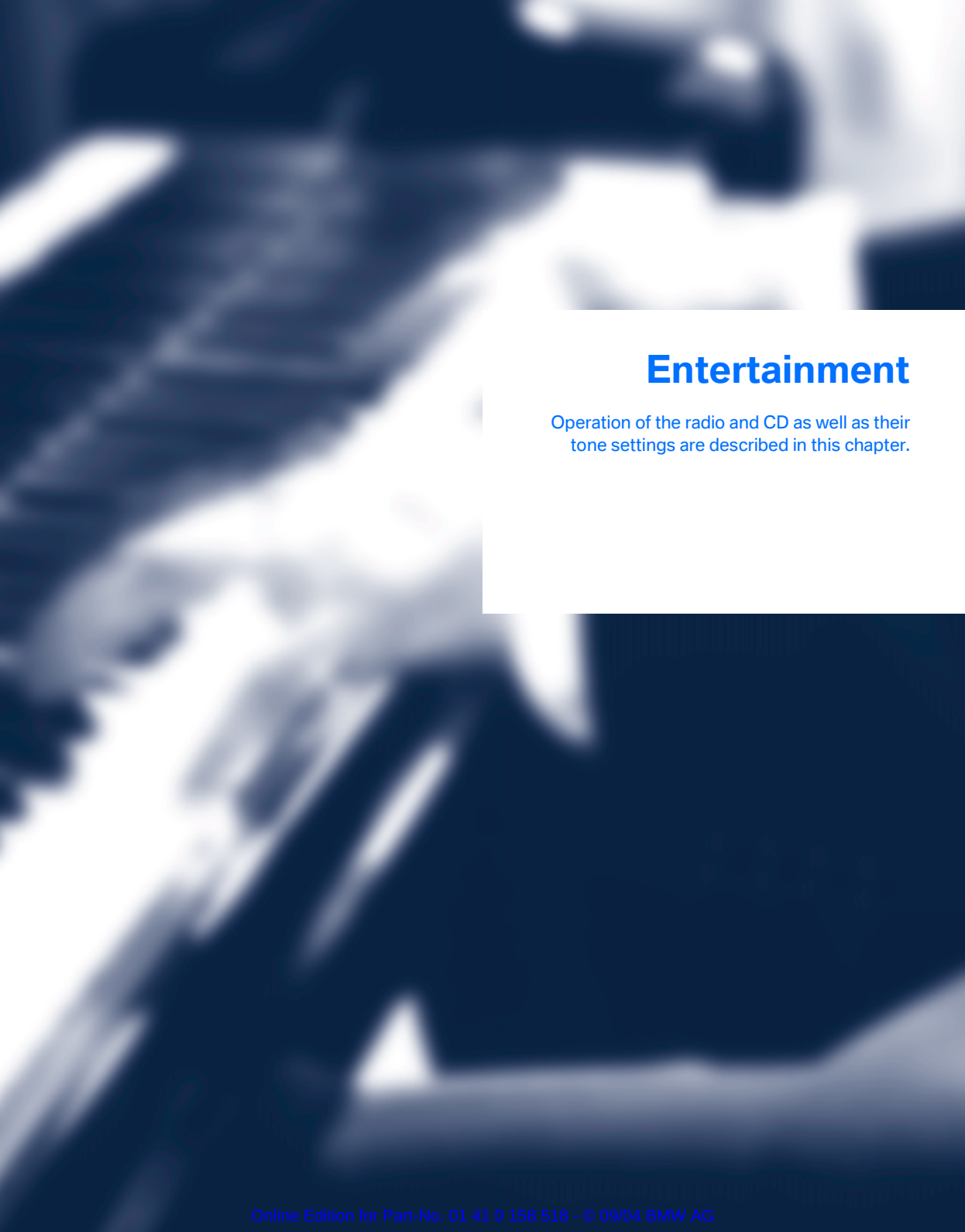
What to do if ...

- a navigation DVD is inserted, but an instruction to insert the DVD appears on the Control Display?
  The navigation DVD may not be the correct DVD for the navigation system. This information is indicated on the DVD label.
- you request the current position of your vehicle, but do not receive a precise display?
  The system is unable to receive enough GPS signals at your current position owing to obstructions, your current position is not yet available on your navigation DVD, or the system is in the process of calculating your current position. As a rule, reception is guaranteed when you are in the open.
- the destination guidance does not accept a destination?
  The data of the destination is not stored on the navigation DVD that is loaded. Select a destination that is as close as possible to the original.
- the destination guidance does not accept an address without the street name?
  On the navigation DVD, no downtown area can be determined for the city or town entered. Enter any street, or a destination such as the railway station in the selected town, and then start the destination guidance.
- you want to enter a destination for the destination guidance, but it is not possible to select the letters for your desired entry?
  The data of the destination is not stored on the navigation DVD that is loaded. In this case, the system will not offer you any letters to choose from. Select a destination that is as close as possible to the original.
- the system stops furnishing directions on which way to turn as you approach intersections?
  You are driving in an area that has not yet been completely recorded on the navigation DVD. Instead of an arrow indicating a turn, you will see an arrow which indicates the general direction of your planned route. Or you have left the recommended route and the system requires a few seconds to calculate a new recommended route.
- the navigation system does not react to entries?
  If the battery was disconnected, it takes about 10 minutes before the system is once again operational.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG



Entertainment

Operation of the radio and CD as well as their tone settings are described in this chapter.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

On/off and tone

The following audio sources have shared controls and setting options:

- ▷ Radio Business
- ▷ CD player
- ▷ CD changer*

Controls

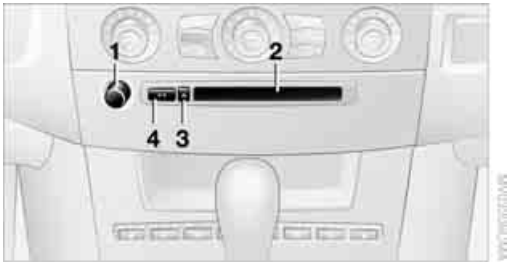
The audio sources can be operated using:

- ▷ Buttons in the region of the CD player
- ▷ Control Center
- ▷ Remote control*
- ▷ Buttons on the steering wheel, refer to page 10

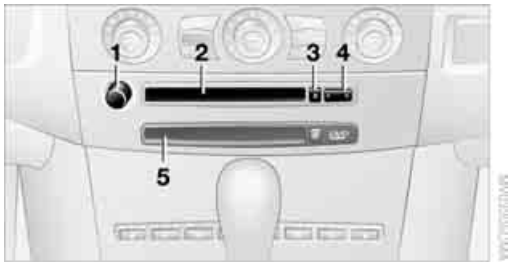
Buttons in the region of the CD player

The layout of the buttons can vary depending on your vehicle's equipment.

Equipment with single drive:



Equipment with two drives:



1 Sound output for entertainment on/off, volume

- ▷ Press: switch on/off.
  When you switch on, the last set radio station or CD track is played.
- ▷ Turn: adjust volume.

2 Drive for audio CDs

3 Eject CD

4 Station scan/track search

- ▷ Change radio station.
- ▷ Select track for CD player and CD changer.

5 Drive for navigation DVDs

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Operation using Control Center

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Move the controller back to open "Entertainment".

You have the following choices:

- ▷ "FM" and "AM": select radio reception.
- ▷ "WB": request weather station.
- ▷ "SAT": select satellite radio.
- ▷ "CD": select CD player or CD changer.
- ▷ "Set": depending on the audio source, other adjustments can be made, e.g. with the radio: update station with strongest reception, save station, tone control, sample stations.

Switching on/off

In order to switch the Entertainment sound output on and off:
Press knob **1** next to the CD player.

This symbol on the Control Display indicates that sound output is switched off.

Adjusting volume

Turn knob **1** next to the CD player until the desired volume is set.

You can also adjust the volume on the steering wheel.

The setting for the remote control currently in use is stored.

Tone control

You can alter various tone settings, e.g. treble and bass, or the speed-dependent volume increase.

The settings are stored for the remote control currently in use.

Changing tone settings

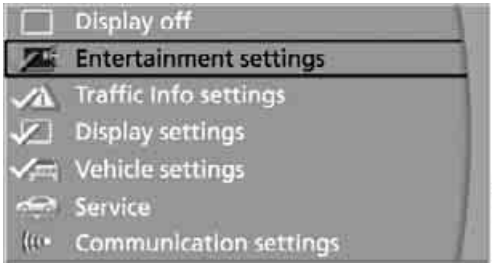
Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Press the controller to open the i menu.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

3. Select "Entertainment settings" and press the controller.



4. Select "Audio" and press the controller.

The tone settings can also be selected when you have opened "Entertainment" in the start menu:
Select "Set" and then "Tone" and press the controller.

Treble and bass

1. Select "Treble / Bass" and press the controller.

2. Move the controller to the left or right to select "Treble" or "Bass".

3. Turn the controller until the desired setting is selected.

Balance and fader

You can set the right/left and front/rear volume balance in the same manner as "Treble / Bass".

Speed-dependent volume increase

The speed-dependent volume control automatically increases the volume with increasing speed. You can set various stages for the increase in volume.

1. Select "Speed volume" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

2. Turn the controller.
   The adjustment is applied; the field can be changed.

Professional LOGIC7 HiFi System*

You can select a spatial sound effect that improves the spatial acoustics in all frequency ranges.

1. Select "LOGIC7" and press the controller.

2. Select "Concert hall" or "Theater".

3. Press the controller.
   LOGIC7 spatial sound is switched on.

To cancel the stereo effect:
Select "Off" and press the controller.

LOGIC7 and the LOGIC7 logo are registered trade marks of Lexicon, Inc., a company of the Harman International Group.

Equalizer*

You can set individual sound frequency ranges.

1. Select "Equalizer" and press the controller.

2. Move the controller to the left or right to select the desired frequency range.

3. Turn the controller until the desired setting is selected.

Resetting tone settings

You can reset all tone settings except "Speed volume" to the standard default settings.

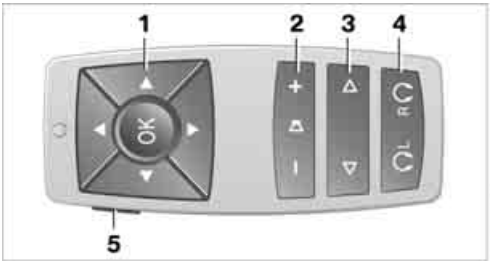
1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Entertainment settings" and press the controller.
4. Select "Audio" and press the controller.
5. Select "Reset" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Controls in the back seat*

You can also use a remote control to select Business radio as the audio source and listen to it through the headphones or speakers.

Remote control



1 Buttons for menu navigation

2 Volume

3 Station scan/track search

- ▷ Change radio station.
- ▷ Select track for CD player and CD changer.

4 Headphones right/left

5 Exit menu for rear seat entertainment

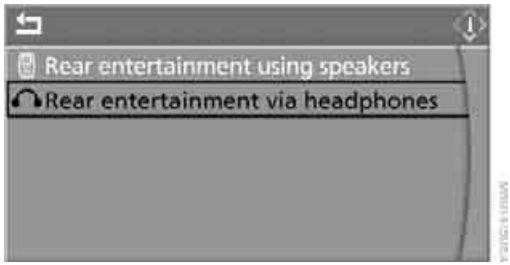
Use the buttons **1** to navigate through the menu. Pressing and move the controller left, right, forward, and back is replaced by pressing the corresponding button, refer to page 16.

Attaching headphones

Connections for the headphones:
Jacks 3.5 mm.

Selecting speakers/headphones

1. Press one of the buttons **1**.
2. Select "Rear entertainment using speakers" or "Rear entertainment via headphones".



3. Press OK button.

   The last audio source selected is displayed:

   - ▷ Headphones selected.
   - ▷ Speakers selected.

To exit from the menu:
Select arrow and press OK button.

Settings for the remote control

You can limit control and set it so that the audio source of the speakers is also heard through the headphones.

Limiting control:

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Press the controller to open the i menu.
3. Select "Vehicle settings" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Select "Unlock rear menu" and press the controller.

5. Select Rear seat and press the controller.
   - ▷ In order to deactivate the remote control: "Rear not enabled".
   - ▷ In order to deactivate the control for the speakers: "Headphone operation only".

In order to set the headphones to the same audio source as for the speakers:

1. Press the **MENU** button to open the start menu.
2. Move the controller back to open "Entertainment".
3. Press the controller.
   Other menu items are displayed.

4. Select "Headphones" and press the controller.
   The same audio source will be heard over the speakers and headphones.

Tone control

You can adjust the tone right and left for the speakers or for the headphones.

1. Press one of the buttons **1**.

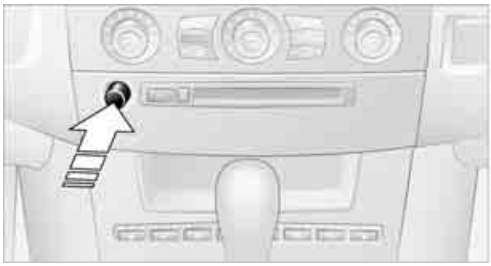
2. Select "Rear entertainment using speakers" or "Rear entertainment via headphones" and press the controller.
3. Adjust the tone, refer to page 133.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Radio

Your radio provides reception the FM and AM wavebands.

Listening to the radio

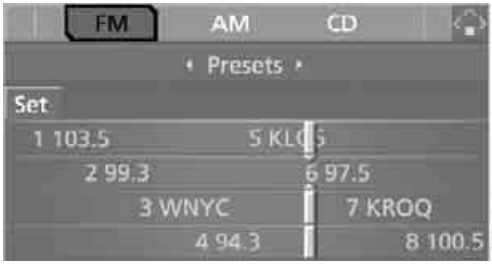


Press the button if the sound output is switched off.

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Move the controller back to open "Entertainment".
3. Select "FM" or "AM".



4. Press the controller.

Stations are shown on the Control Display on the basis of various selection criteria, e.g. "Presets".

If "Autostore" does not display any stations or if the stations displayed can no longer be received, to update the station with the strongest signal, refer to page 139.

Changing station

Turn the controller.

In addition to the stations currently displayed, you can have stations with another selection criterion displayed.
You can choose from the following selection criteria:

▷ "Autostore":
 For the Station with the strongest signal, refer to page 139.

▷ "Presets":
Stations you have previously stored, refer to page 140.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

To change between these different selection criteria of stations:

1. Move the controller forward to change the field.
2. Select a selection criterion.

3. Press the controller.

You can also change the station on the steering wheel.

Buttons next to CD player:

Press the button for the corresponding direction.
The system switches to the next displayed station.

Sampling stations, scan

The system automatically plays a brief sample from each of the stations on the current waveband.
In "Manual", you can set stations that are received in addition to those displayed.

Buttons next to CD player:

To start scan, hold down the corresponding direction button.

To stop scanning, press button.

Control Center, for principle details, refer to page 16.

1. Select "FM" or "AM".
2. Press the controller.
3. Press the controller again.
   Other menu items are displayed.
4. Select "Scan" and press the controller.

Scan starts.

To stop the scan:

1. Press the controller.
2. Select "Scan" and press the controller.

This cancels the scan search, and the radio remains on the current station.

Selecting frequency manually

Control Center, for principle details, refer to page 16.

1. Select "FM" or "AM".
2. Press the controller.
3. Move the controller forward to change the field.
4. Select "Manual" and press the controller.

5. Turn the controller to set a certain frequency.

Updating stations with best reception

If you are on a longer journey and leave the transmission range of the stations originally set, you can update the list of stations with the best reception.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Control Center, for principle details, refer to page 16.

1. Select "FM" or "AM".
2. Press the controller.
3. Move the controller forward to change the field.
4. Select "Autostore" and press the controller.

5. Press the controller again.
   Other menu items are displayed.
6. Select "Autostore" and press the controller.

The display of the stations with the strongest reception is updated. The stations are displayed based on their frequencies.

Storing stations

Control Center, for principle details, refer to page 16.

1. Select "FM" or "AM".
2. Select the desired station.
   "Set" has been selected.

3. Press the controller.
   Other menu items are displayed.
4. Select "Store" and press the controller.

   "Presets" is displayed.
5. Turn the controller until the desired memory position is selected.
   The number of the memory position appears beside the name or frequency of the station.
6. Press the controller.
   The station is stored.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

The channels of the last selection criterion are displayed once again after a short time.

The stations are stored for the remote control currently in use.

Changing a memory location

Control Center, for principle details, refer to page 16.

1. Select "Presets" and press the controller.
2. Select the desired station.
3. Press the controller.
   Other menu items are displayed.
4. Select "Store" and press the controller.

5. Turn the controller until the desired memory position is selected.
   The number of the memory position appears beside the name or frequency of the station.
6. Press the controller.
   The station is stored.

RDS Radio Data System

RDS transmits additional information in the FM frequency range. RDS stations have the following properties:

▷ In the case of broadcasting networks that transmit over a number of frequencies, there is an automatic switch to the frequency with the best reception quality.

▷ If the reception conditions are good, the station names are shown on the Control Display. If the reception is weak or disrupted, it can take some time before the station names appear.

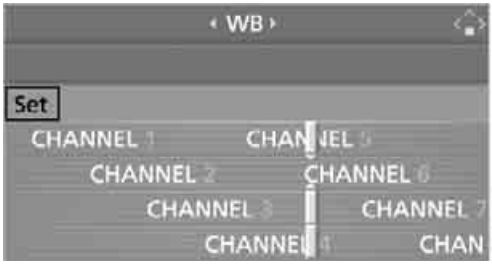
Weather Band*

Weather Radio is a service of the National Oceanic and Atmospheric Administration – NOAA – of the U.S. Department of Commerce. Weather messages are repeated every four to six minutes and are routinely revised every one to three hours, or more frequently if needed. Most of the stations operate 24 hours daily. During severe weather, National Weather Service forecasters can interrupt the routine weather broadcasts and substitute special warning messages. If you have a question concerning NOAA Weather Radio, please contact your nearest National Weather Service Office, or write to National Weather Service – Attn: W/OM11–, National Oceanic and Atmospheric Administration, 1325 East-West Highway Silver Spring, MD. 20910.

Selecting Weather Band

Control Center, for principle details, refer to page 16.

1. Select "WB" and press the controller.
2. Select the Weather Band station and press the controller.



The Weather Band station may be unavailable in some regions.

Satellite radio*

You can receive over 100 different channels with high sound quality.

The channels are offered to you in predefined packages. To receive the channels of your choice, you must have this package enabled.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

You may experience signal drops and muting events related to this new technology.◀

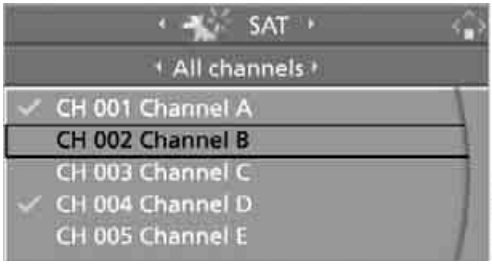
Enabling or disabling channels

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Move the controller back to open "Entertainment".
3. Select "SAT".

4. Press the controller.



The channels are displayed.
✔ These channels are enabled.

Enabling

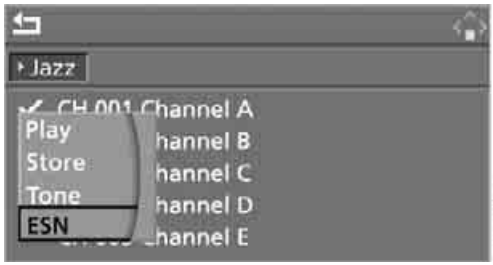
1. Select a channel that has not yet been enabled and press the controller.
   A telephone number and the electronic serial number, ESN, are displayed.

   The electronic serial number is required to enable or disable.◀

2. To enable the channels:
   Dial the phone number.

Disabling

1. Select an enabled channel and press the controller.



2. Select "ESN" and press the controller.
   The electronic serial number, ESN, is displayed

   The electronic serial number is required to disable.◀

3. To disable the channels:
   Dial the phone number.

Selecting and storing channel

1. Select "SAT" and press the controller.

Channels are shown on the Control Display sorted on the basis of selection criteria.

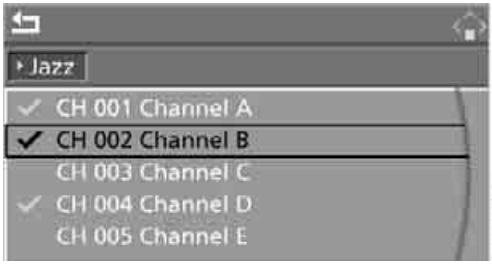
Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

2. Select a menu item:
   - ▷ "Presets":
     Up to twelve channels you have stored previously.
   - ▷ "All channels":
     All channels are displayed.
   - ▷ "Categories":
     All channels, sorted by categories, e.g. news, jazz.

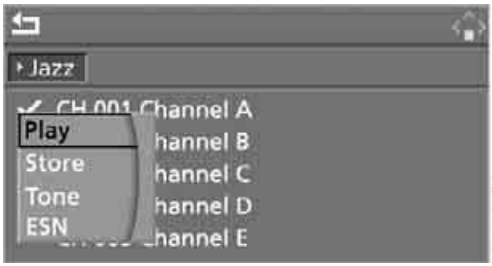
3. Press the controller.
4. If "Categories" has been selected:
   Select the desired category and press the controller.

The channels of this category are displayed.

5. ✓ Select a channel marked with this symbol.

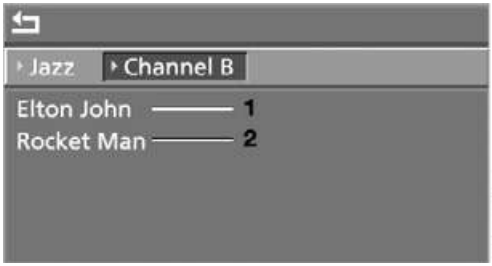


6. Press the controller.
   Other menu items are displayed.
7. Select "Play" and press the controller.



Additional information

The name of the channel and additional information on the current track are displayed, e.g. the name of the artist.

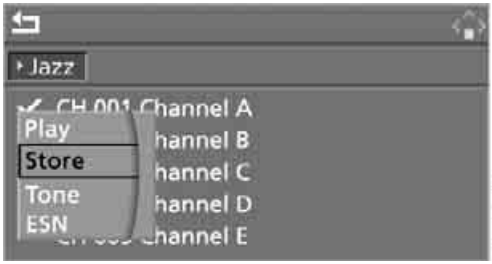


1 Artist

2 Track

Storing channel

1. Select desired channel.
2. Press the controller.
   Other menu items are displayed.
3. Select "Store" and press the controller.



"Presets" is displayed.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Turn the controller to select a memory location and press the controller.

The channel is stored. The channels of the last selection criterion are displayed once again after a short time.

Changing channel with buttons next to CD player

Press the button for the corresponding direction.
The system switches to the next enabled channel.

Notes

When there is a signal blockage or the transmission is suspended momentarily for more than 4 seconds, a message appears on the Control Display.

Service may be interrupted or unavailable for specific reasons such as environmental or topographic conditions and others that satellite radio cannot directly control.
Signal may not be available under tunnels, in parking garages, next to tall buildings, nearby trees with dense foliage, nearby mountains or other possible strong sources of radio interference.
Service should resume normally after the source of signal unavailability has been cleared.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

CD player and CD changer*

Listening to CDs

CD player: starting CD

When equipped with two drives:
The upper drive is for audio CDs.

Insert the CD into the drive with the labeled side up.
Playback starts automatically if the sound output is on.

To start playback when there is already a CD in the drive:

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

2. Move the controller back to open "Entertainment".

3. Select "CD" and press the controller.

4. On vehicles with a CD changer, select "CD" and press the controller to start the CD player.

Playback starts automatically if the sound output is switched on.

To eject the CD, press the button on the CD player.
The CD emerges slightly from the drive.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

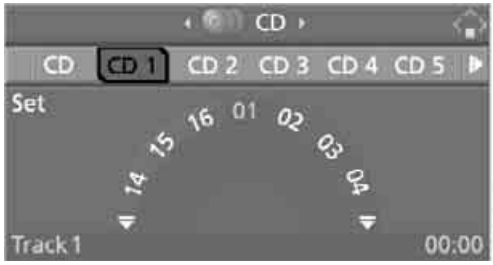
CD changer: starting CD

1. Fill the CD magazine and insert, refer to page 147.

Control Center, for principle details, refer to page 16.

2. Press **MENU** button.
   This opens the start menu.

3. Move the controller back to open "Entertainment".
4. Select "CD" and press the controller.
5. Select the desired CD and press the controller.



At the end of the last track, the next CD will be selected.

If new CDs have been placed in the CD magazine, playback starts with the lowest CD, e.g. CD 1, track 1.

The CD magazine's load status is indicated on the Control Display.

Selecting a track

Buttons next to CD player:

Press the button for the corresponding direction repeatedly, continuing until you reach the desired track on the current CD.

The CD will start play at the start of the track. The track is displayed on the Control Display.

You can also select the track on the steering wheel.

Control Center, for principle details, refer to page 16.

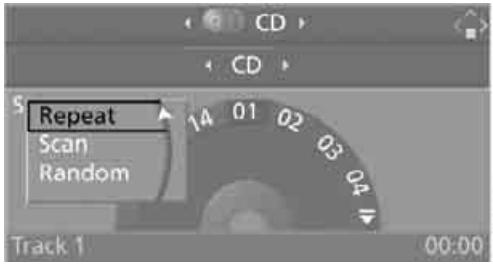
Select a track by turning the controller.

Repeating a track

Control Center, for principle details, refer to page 16.

1. Select "Set" and press the controller.
   Other menu items are displayed.

2. Select "Repeat" and press the controller.



The current music track on the CD is repeated.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Stop repeating:
Press controller, select "Repeat" and press controller again.

Sampling tracks, scan

The system automatically plays a brief sample from each of the tracks on the current CD.

Control Center, for principle details, refer to page 16.

1. Select "Set" and press the controller.
   Other menu items are displayed.
2. Select "Scan" and press the controller.

To stop the scan:

1. Press the controller.
2. Select "Scan" and press the controller.

This cancels the scan, and the selected track remains.

Random play sequence

In this mode, the music tracks on the current CD are played once in a random sequence.

Control Center, for principle details, refer to page 16.

1. Select "Set" and press the controller.
   Other menu items are displayed.
2. Select "Random" and press the controller.

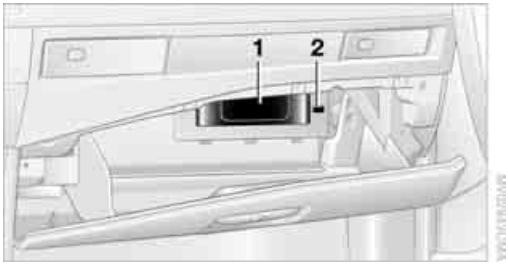
Stop random function:
Press controller, select "Random" and press controller again.

Fast forward/reverse

Buttons next to CD player:

Press and hold the button for the corresponding direction.

CD magazine



The BMW CD changer for six CDs is installed in the glove compartment.

Remove CD magazine

To insert or remove CDs from the CD magazine **1**, you must first remove it from the CD changer:

1. Press button **2**.
   The CD magazine **1** is ejected.
2. Remove CD magazine.

Inserting/removing CDs from CD magazine

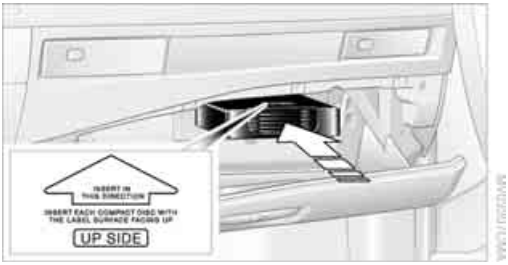
When inserting or removing CDs, remember to hold them only by their edges, taking care to avoid touching the data side with its reflective CD memory surface.

Inserting CDs:
Insert the CD in its slot with the label side on top.

Removing CDs:
Pull out the desired drawer, refer to arrow, and remove the corresponding CD.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Inserting CD magazine



Push in the CD magazine as far as possible in the direction of the arrow.

The CD changer automatically reads in the loaded CDs and is then ready for operation.

Notes

Data from CDs, CD-Rs and CD-RWs can be played.

Safety notes

The BMW CD drives are Class 1 laser products. Do not operate if the cover is damaged, otherwise severe eye damage can result.
Do not use self-recorded CDs with labels applied as these can become detached during playback due to heat build-up and can cause irreparable damage to the device.
Only use round CDs with a standard diameter of 4.7 in/12 cm and do not play CDs with an adapter, e.g. Single-CDs, otherwise the CDs or the adapter can jam and may no longer be ejected.
Do not use a combined CD/DVD, e.g. DVD^{Plus}, as otherwise the CD/DVD can jam and will no longer eject.◀

Malfunctions

To prevent illegal CD copying, manufacturers often use copy protection. This can mean than some CDs cannot be played or can only be played to a limited extent. In this case, please contact the CD dealer or manufacturer.
You may experience playback problems, such as skips, when using CD-Rs/CD-RWs that you have copied at home.
If the CD that you have loaded in the drive does not play, check to ensure that the CD has been inserted correctly and inspect it for signs of defects.
High levels of humidity can lead to condensation on the laser's scan lens and temporarily prevent it from reading the CD.
Always hold CDs by the edges; do not touch the reflecting CD memory surface.

Care instructions

You can find everything you need to know on this topic by consulting the separate Caring for your vehicle brochure.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Communications

This chapter summarizes how to operate your portable phone using the Control Center or voice control and how to use BMW Assist or TeleService.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Telephoning

Safety notes

For your own safety

A car phone makes life more convenient in many ways, and can even save lives in an emergency. While you should consult your portable phone's separate Owner's Manual for a detailed description of safety precautions and information, we request that you direct your particular attention to the following:

Adjustments

To avoid posing a danger to yourself and other road users, never adjust the system settings unless your vehicle is stationary.◀

Using the phone in your vehicle

Using a portable phone to make and receive calls while driving is already illegal in many countries in the world. Always use your hands-free system, or stop your vehicle in an area where you will not pose a safety hazard to other road users.◀

Vehicles and portable phones

Do not use your portable phone from within a garage, or near an open hood. The air in these areas could contain fuel vapors, and the portable phone might generate sparks that could cause fires.
This same precaution applies to open luggage compartment lids on vehicles equipped for operation using natural gas or hydrogen, and to all vehicles with luggage compartment-mounted batteries.◀

Antenna

When using the portable phone, ensure that all persons in the area are at least 20 in/50 cm from the antenna. Do not use the portable phone when the antenna is damaged. Contact between your skin and a damaged antenna can result in minor burns.
If the antenna is damaged, have it replaced immediately.◀

Special environmental conditions

Always switch off your portable phone in areas where blasting work is being conducted with explosives. The phone signals could potentially act as a high-frequency transmitter and set off explosions.
Always switch off your portable phone in areas where an increased explosion danger is present. This category includes service stations along with fuel and chemical storage depots, etc., and all areas in which the air can contain fuel, chemicals or metal particles. Under these conditions, your portable phone could conceivably generate sparks that could lead to a fire or explosion. Always observe all legal regulations governing the use of portable phones in the vicinity of service stations, chemical factories and other areas where an explosion potential exists. Never use your portable phone in aircraft; do not use this portable phone in hospitals, care centers or at other locations where medical equipment may be in operation, such as accident sites.
Your service provider can furnish you with more detailed information on legal regulations governing the use of your phone.◀

Medical equipment

Portable phones can generate interference capable of preventing hearing aids and cardiac pacemakers from operating correctly. If you or any occupant of the vehicle will be using such equipment, consult a physician or the manufacturer of the equipment to determine whether it is adequately shielded against high-frequency energy.◀

Batteries

Never attempt to dismantle your portable phone or its battery. Use only approved battery types – the wrong battery can destroy

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

your portable phone.
To avoid possible short circuits, after removing a battery you should never allow it to come into contact with metallic surfaces of any kind.◀

Disposing of used batteries

Return used batteries to a recycling collection point or to your BMW center.◀

Care instructions

You can find what you need to know about caring for your portable phone in the separate Caring for your vehicle brochure and in the portable phone Owner's Manual.

Operating options

You can operate the portable phone* with:

- ▷ The steering wheel, refer to page 10
- ▷ The Control Center, refer to page 153
- ▷ Voice commands, refer to page 158

You can get information about activating the portable phone in the separate Owner's Manual for the Full Preparation Package Cellphone.

Making calls with the car phone: BMW Assist calls

You can use the car phone via the hands-free system for BMW Assist calls.

When the status information "Communication" is displayed in "Car Phone", only BMW Assist calls are possible.

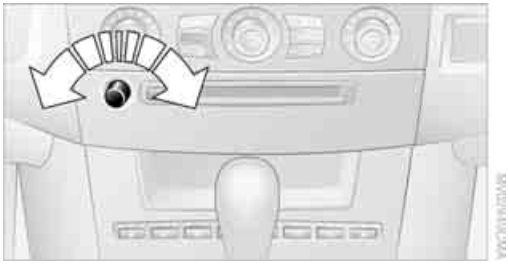
Hands-free system

The hands-free microphone is located on the headliner.

The hands-free system is activated whenever you establish or receive a call using:

- ▷ The buttons on the steering wheel
- ▷ The Control Center
- ▷ Voice commands

Adjusting volume



Turn the knob during a call to select the desired volume.

This volume for the hands-free system is maintained, even if the other audio sources are set to minimum volume.

The setting for the remote control currently in use is stored.

Operation using Control Center

You can use the following functions through the Control Center as soon as the portable phone is inserted into the cradle or connected to the vehicle via Bluetooth:

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

- Dial phone number
- Phone book
- Top 8
- Redial
- Display accepted calls
- Display missed calls
- Text messages/SMS

Control Center, for principle details, refer to page 16.

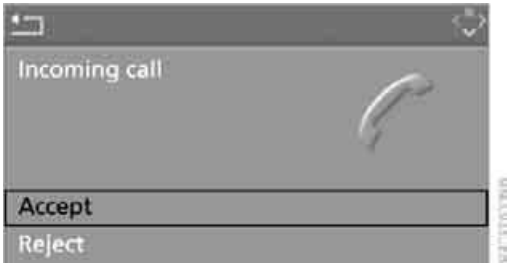
1. Press **MENU** button.
   This opens the start menu.

2. Move the controller forward to open "Communication".

Receiving calls

If you have the phone number of the caller stored in the phone book and the phone number is transmitted, the name of the entry is displayed.

Accepting a call



Select "Accept" and press the controller.

Rejecting a call

Select "Reject" and press the controller.
The caller is diverted to your mailbox if it has been activated.

Calling

Dialing phone numbers

1. Select "Phone" and press the controller.

2. Select "Dial" and press the controller.
3. To enter the phone number: select digits individually and press the controller.
   Always enter the complete phone number consisting of national dialing code, area code, and phone number.

   To delete a wrong number:
   Move controller toward the right to select ⟵ and press controller.
4. Select "Dial number" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Ending call

1. If necessary, select the telephone number.

2. Press the controller.
   Other menu items are displayed.
3. Select "End call" and press the controller.

Phone book

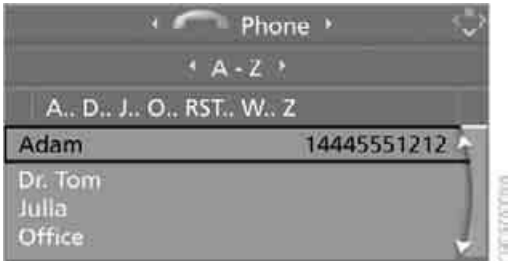
After the portable phone is inserted into the cradle or is connected to the vehicle via Bluetooth, the phone book is transmitted from the portable phone to the vehicle. Loading the phone book can take several minutes.

Dialing from phone book

1. Select "Phone" and press the controller.

2. Select "A - Z" and press the controller:
   The entries in the phone book of the portable phone are displayed on the Control Display; they are sorted alphabetically.

   To run a targeted search for an entry, select the first letter of the entry and press the controller.
   The first entry that starts with this letter is displayed.
3. Select the desired entry.



4. Press the controller.
   Other menu items are displayed.
5. Select "Call" and press the controller.
   The system dials the number.

If different phone numbers are stored in the portable phone under one name, e.g. office and home, the name is shown once for each phone number.

Adding digits to phone numbers

You can add other digits to a phone number stored in the phone book, e.g. to call a specific extension:

1. Select "Phone" and press the controller.
2. Select "A - Z" and press the controller.
3. Select the desired entry.
4. Press the controller.
   Other menu items are displayed.
5. Select "Add digits" and press the controller.
6. To add to the phone number: select digits individually and press the controller.
7. Select "Dial number" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Lists

Your phone can store phone numbers you have dialed and missed calls in lists. If the caller is entered in the phone book, the name of the entry is displayed instead of the phone number. You can select the desired subscriber from the list and establish the connection.

Four lists are available:

- ▷ "Top 8"
  The eight numbers called most frequently via the list "A - Z" are automatically stored in the Top 8 list. The number called most often appears at the top of the list.
- ▷ "Redial"
  The last eight phone numbers you have dialed are automatically stored. The last number dialed is at the top of the list.
- ▷ "Received calls"
  The phone numbers of the last eight accepted calls while the portable phone was in the cradle or connected to the vehicle via Bluetooth are stored. This requires the telephone number of the caller to have been sent.
- ▷ "Missed calls"
  The phone numbers of the last eight calls that were not accepted while the portable phone was in the cradle or connected to the vehicle via Bluetooth are stored. This requires the telephone number of the caller to have been sent.

Dialing from a list

To select an entry and establish a connection:

1. Select "Phone" and press the controller.
2. Select the list:
   - ▷ "Top 8"
   - ▷ "Redial"
   - ▷ "Received calls"
   - ▷ "Missed calls"

3. Press the controller.
4. Select desired entry.

5. Press the controller.
   Other menu items are displayed.
6. Select "Call" and press the controller.
   The system dials the number.

Deleting individual entries

1. Select the desired entry from the list.
2. Press the controller.
   Other menu items are displayed.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

3. Select "Delete" and press the controller.
   The entry is deleted.

Deleting the entire list

1. Select an entry from the list.
2. Press the controller.
   Other menu items are displayed.
3. Select "Delete all numbers" and press the controller.
   The list is deleted.

Touch tone dialing

Touch tone numbers are required for access network services or to control devices, e.g. remote querying on an answering machine.

This function can only be used during an existing connection.

1. Establish connection.

2. Press the controller.
   Other menu items are displayed.
3. Select "Keypad" and press the controller.
4. Select the desired digits and press the controller. Each digit is sent immediately.

Text messages/SMS*

The symbol on the Control Display shows that you have received a new text message. It goes out as soon as there are no longer any unread text messages.

The number of text messages that can be stored depends on the memory capacity of your portable phone.

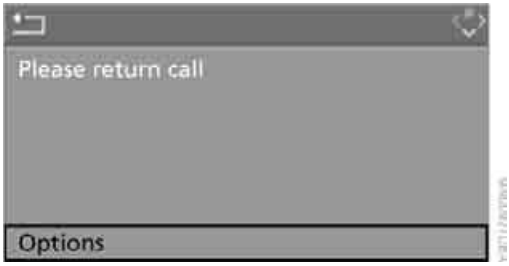
Displaying text messages/SMS

1. Select "SMS" and press the controller.

The list of received text messages is displayed on the Control Display.
The symbol indicates unread text messages.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

2. Select the desired text message and press the controller.
   The text message is displayed.



To close the text message:
Move controller toward the front to select ⮌ and press controller.

Calling sender

1. Select the desired text message and press controller.
   The text message is displayed.
2. Select "Options" and press the controller.
3. Select "Call sender" and press the controller.
   The selected sender is called.

Deleting text messages/SMS

1. Select the desired text message and press the controller.
   The text message is displayed.
2. Select "Options" and press the controller.
3. Select "Delete" and press the controller.
   The text message of the portable phone is deleted.

Operation by voice*

The concept

You can operate your portable phone without having to remove your hands from the steering wheel. The system operates on the basis of voice commands that you will learn easily after using them a few times. In addition, you are also supported by instructions or questions.

Symbols used

›...‹ Indicates voice commands.

››...‹‹ Indicates system announcements.

Voice commands

In ignition key position 2:

1. Press button on steering wheel.
   A sound signal indicates operating readiness.
2. Say voice commands.
   To have the system list the voice commands possible in each case:
   ›Options‹.

Canceling operation via voice

Press button on steering wheel
or
›Cancel‹.

In dialogs where text is spoken, not a command, e.g. a name, canceling is only possible using the button. The dialog is automatically interrupted when an incoming call is received.

Voice commands

In addition to the commands described in this Owner's Manual, alternative commands are often possible for the same functions, e.g.:

›Dial name‹ or ›Name‹.

The system recognizes digits from zero to nine.

You can say each digit individually or group them into a sequence of three to five digits to accelerate the input.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Example: dialing phone number

Start the dialog:

Press button on steering wheel.

Voice command	Response
›Dial number‹	››Please say the number‹‹
e.g. ›123 456 7890‹	››123 456 7890. Continue?‹‹
›Dial‹	››Dialing number‹‹

Adjusting volume

You can adjust the volume for the instructions from the system:

Turn the button during an instruction to select the desired volume.

This volume for the instructions is maintained, even if the other audio sources are set to minimum volume.

The setting for the remote control currently in use is stored.

Calling

Dialing phone numbers

1. ›Dial number‹.
   The dialog for establishing a telephone connection is opened.
2. Say the phone number.
   For telephone calls abroad, say ›Plus‹ and then the country code.
3. ›Dial‹.
   The connection to the desired subscriber is established.

Correcting phone number

After the last spoken sequence of digits has been repeated by the system, you can delete this sequence of digits.

›Correct number‹.
The digits are deleted.

The command ›Correct number‹ can be repeated as often as you like.

Deleting input

›Delete‹ is used to delete all the digits entered so far.

Voice phone book

Operating by voice command requires a personal voice phone book. Depending on the equipment, the entries are either transferred from the memory of your portable phone or they must be entered independently. In this case, it is not possible to use voice command either to call phone numbers stored in the portable phone or to store new numbers.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Storing entry*

An entry always consists of a name and phone number.

1. ›Save name‹.
   The dialog for storing a name is opened.
2. Speak name and repeat entry upon request.
   The spoken length of the names in the phone book must not exceed approx. 2 seconds.
3. Say the phone number when prompted.
4. To store the phone number:
   ›Save‹.

Selecting an entry

The connection to the phone number of the selected entry is established.

1. ›Dial name‹.
   The dialog for selecting an entry is opened.
2. Say the name when prompted.
3. Confirm the prompt with ›Yes‹.

Having entries read aloud* and selecting

You can have all the entries of your voice phone book read aloud in the order of input and select a certain entry to establish a connection:

1. ›Read phone book‹.
   The dialog for reading phone book is opened.
2. ›Dial number‹ when the desired entry is read aloud.

Redialing

The ›Redial‹ command calls "Redial".

Deleting entry*

You can delete any entry from the voice phone book.

1. ›Delete name‹.
   The dialog for deleting an entry is opened.
2. Say the name when prompted.
3. Confirm the prompt with ›Yes‹.

Deleting all entries*

›Delete phone book‹ deletes all entries in the phone book.

1. ›Delete phone book‹.
   The dialog for deleting phone book is opened.
2. Confirm the prompt with ›Yes‹.
3. Confirm the repeated prompt with ›Yes‹.

Notes

The voice commands in English were available as of this printing. Other languages are currently not available. To operate the portable phone via the voice command system, refer to page 22.◀

Important for voice commands

For voice commands, bear in mind the following:

- Issue the commands smoothly and at normal volume, avoiding excessive emphasis and pauses.
- Keep the doors, windows and glass sunroof closed to prevent interference from ambient noise.
- Avoid other sources of noise in the vehicle while speaking, and ask other vehicle occupants to refrain from talking while you are using the system.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

TeleService*, BMW Assist*

TeleService

TeleService supports you when communicating with a BMW center. The built-in car phone can be used to transmit data regarding the service status of your vehicle or regarding legally mandated inspections directly to your BMW center. This is the same data that is also stored for CBS Condition Based Service in the master key. Your BMW center can then contact you, and you can make an appointment that suits you while you are still on the road. Your advantage here is that your BMW center can prepare in advance for the required maintenance work. The functions of TeleService are country-specific and depend on your contract: the data regarding the service status of your vehicle or regarding legally mandated inspections is transmitted on a country-specific basis either automatically before they fall due or during your calls to the BMW center. Your BMW center will be glad to provide more detailed information.

BMW Assist

BMW Assist provides you with other services in addition to TeleService. For example, the position data of your vehicle can be transferred to the BMW Assist response center if an emergency call* has been initiated.

Many functions of BMW Assist depend on the individually agreed contract. Data transmission, e.g. of the CBS Condition Based Service, differs from country to country.

The subscriber agreement must be completed successfully before using the BMW Assist services.

Requirements

The installed car phone is logged on to a portable telephone network. This network must be capable of transmitting the services.

To transmit position data, the vehicle must be able to determine the current position. This is displayed on the Control Display. In order to enable and update TeleService or BMW Assist, a GPS signal must be present.

Enabling TeleService or BMW Assist

For you to be able to use the services of TeleService or BMW Assist, these must be enabled.
To do this, leave the ignition key in position 1 during the entire process.

Control Center, for principle details, refer to page 16.

1. Press **MENU** button.
   This opens the start menu.

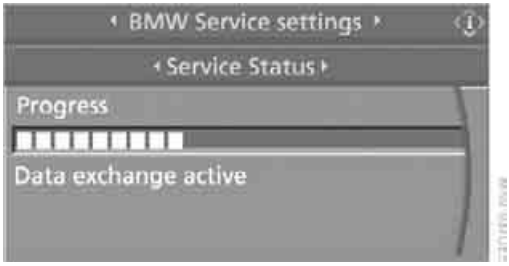
2. Press the controller to open the i menu.
3. Select "Communication settings" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

4. Select "BMW Service settings" and press the controller.

5. Select "Service Status" and press the controller.

6. Select "Enable services" and press the controller.
   TeleService and, if applicable, BMW Assist are enabled; data exchange with the service center starts.



Enabling takes a few minutes. The status is displayed on the Control Display. If you open another menu, the enable process continue to run in the background.

Services offered

The following special features apply for the services of TeleService and BMW Assist:

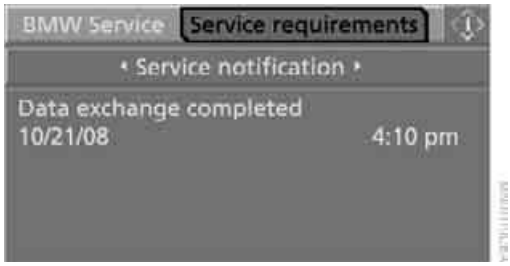
- ▷ The services offered are country-specific.
- ▷ Voice contact is established or data are transferred, depending on the equipment and the country. In some countries, it is also possible to do both.
- ▷ The data transferred can be the vehicle data, your current position or the data of the CBS Condition Based Service.

Automatic service notification*

The data on the service status of your vehicle or on legally mandated inspections is transmitted automatically directly to your BMW center prior to the due date. You can check when the BMW center was notified.

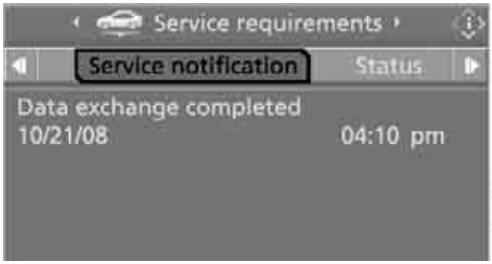
Control Center, for principle details, refer to page 16.

1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Service" and press the controller.
4. Select "Service requirements" and press the controller.



Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

5. Select "Service notification" and press the controller.

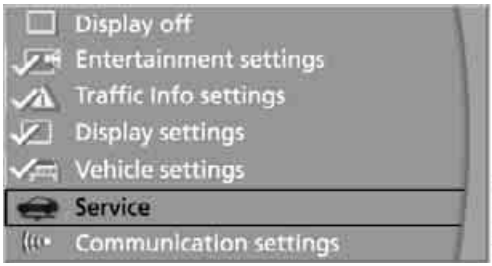


Breakdown assistance

You can call Roadside Assistance* of the BMW Group should you require help in the event of a breakdown.

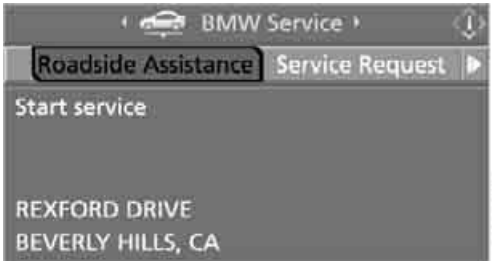
Control Center, for principle details, refer to page 16.

1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Service" and press the controller.



4. Select "BMW Service" and press the controller.

5. Select "Roadside Assistance" and press the controller.



If the current position can be determined, the current vehicle location is displayed.

6. Select "Start service" and press the controller.

Contact to Roadside Assistance will be established.

Setting up contact to your BMW center or BMW Customer Relations

You can contact your BMW center, e.g. to arrange a service appointment.

For information related to your vehicle, call the BMW Customer Relations.

Control Center, for principle details, refer to page 16.

1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Service" and press the controller.
4. Select "BMW Service" and press the controller.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

5. Select desired BMW center:
   - ▷ "Service Request"
   - ▷ "Customer Relations"

6. Press the controller.
7. Select "Start service" and press the controller.

Contact to the desired BMW center will be established.

Adapting TeleService or BMW Assist

Displaying and updating services

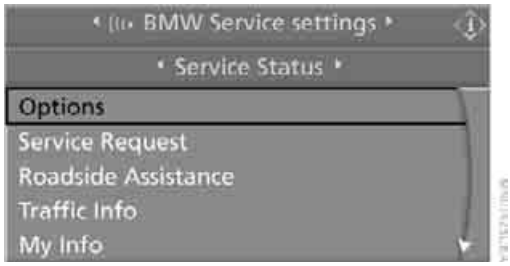
If the offering from TeleService or BMW Assist changes, you will be notified. In this case you should update the services.

Control Center, for principle details, refer to page 16.

1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Communication settings" and press the controller.
4. Select "BMW Service settings" and press the controller.
5. Select "Service Status" and press the controller.

   The current services available from TeleService or BMW Assist are displayed.

6. Select "Options" and press the controller.



7. Select "Update services" and press the controller.

Terminating services

If you terminate the services, your vehicle will not be equipped to contact the BMW Assist call center.

Control Center, for principle details, refer to page 16.

1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Communication settings" and press the controller.
4. Select "BMW Service settings" and press the controller.
5. Select "Service Status" and press the controller.
6. Select "Terminate services" and press the controller.

The use of TeleService or BMW Assist is blocked. To deactivate the blocking function, enabling must be carried out again, refer to page 161. This does not affect the contractual agreements.

The automatic service notification can be disabled separately. Please contact your BMW center for this purpose.

Enable TeleService and, if applicable, BMW Assist to log on again.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Displaying vehicle data

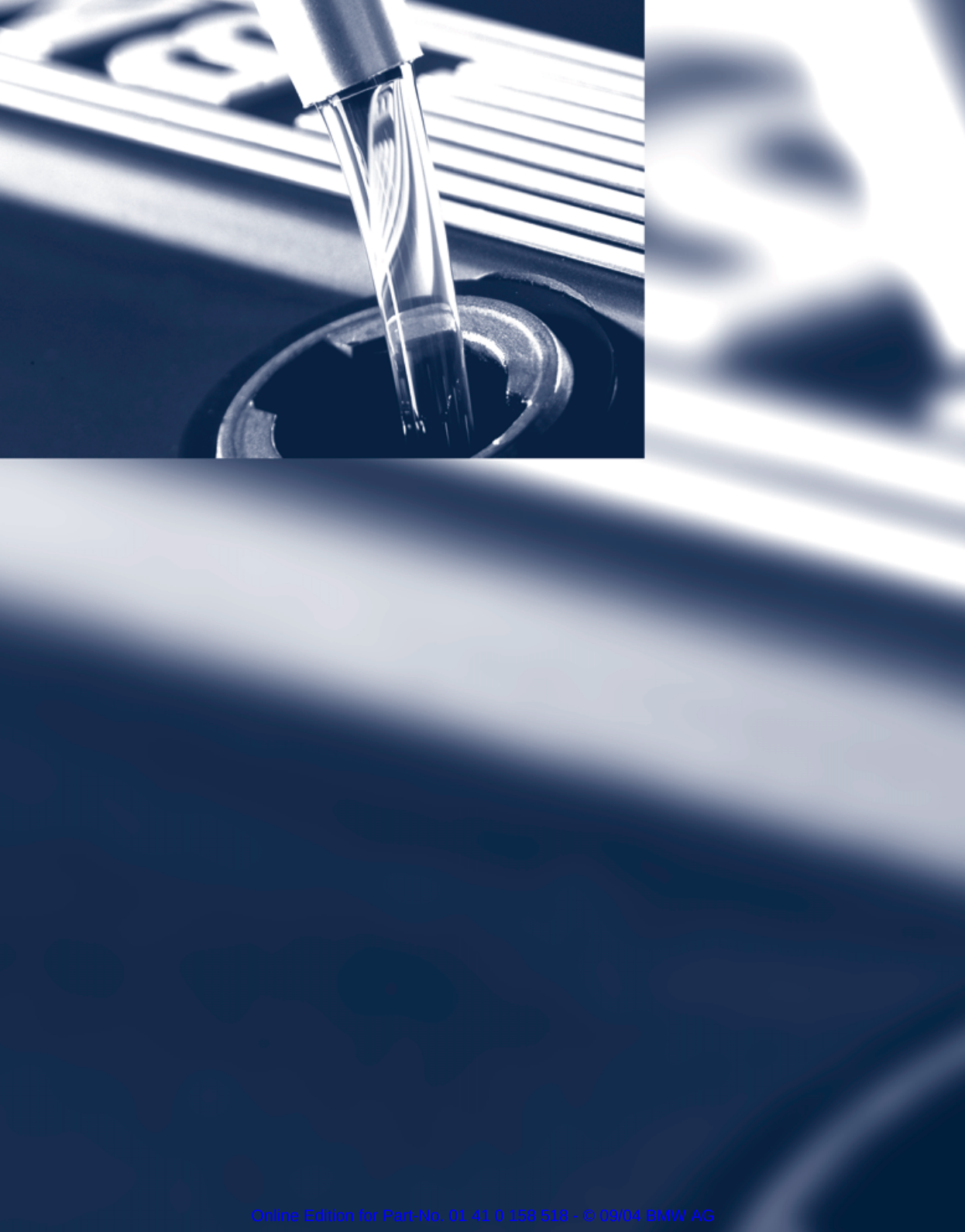
When TeleService or BMW Assist is activated, the color designation, the license plate and the vehicle identification number of your vehicle can be displayed.

Control Center, for principle details, refer to page 16.

1. Open the start menu.
2. Press the controller to open the i menu.
3. Select "Communication settings" and press the controller.
4. Select "BMW Service settings" and press the controller.
5. Select "Profile" and press the controller.

To adjust the license plate, please go to your BMW center.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG



Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Mobility

This section helps you maintain your mobility by supplying important information on vital topics including fuels and lubricants, wheels and tires, service, maintenance and breakdown assistance.

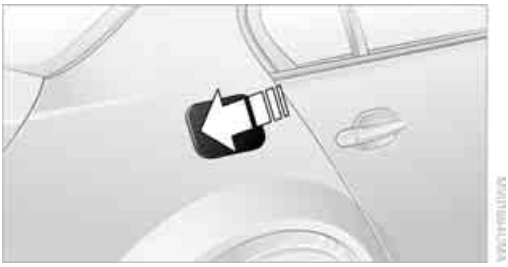
Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Refueling

Always switch off the engine before refueling. If you do not, fuel cannot be dispensed into the tank and a message on the Control Display will appear.◀

Always observe all applicable precautions and regulations when handling fuels. Never carry spare fuel containers in your vehicle. Whether empty or full, these containers can leak, cause an explosion, and lead to fire in the event of a collision.◀

Fuel filler door

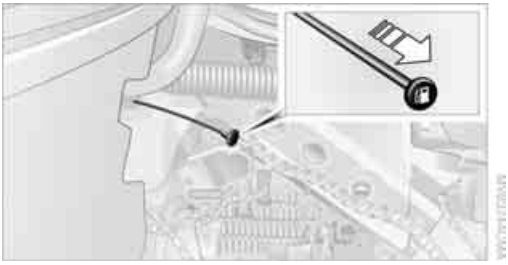


To open and close: press the rear edge of the fuel filler door.

Manual release

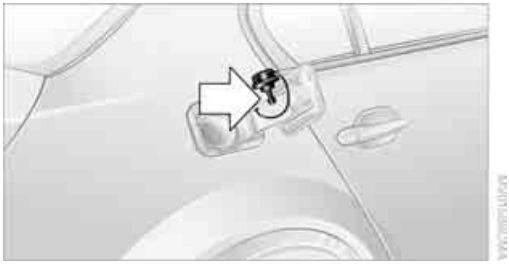
If an electrical malfunction should occur, you can unlock the fuel filler door manually.

1. In the luggage compartment, raise the floor mat and the cover located beneath it.
2. Open the snap fasteners of the right side panel and take off the side panel.
3. Pull the knob with the gas pump symbol.



Observe the following when refueling

When handling fuels always observe any safety guidelines posted at the service station.◀



Place the fuel filler cap in the bracket attached to the fuel filler door.

When refueling, insert the filler nozzle completely into the filler pipe. Lifting the filler nozzle during refueling leads to

- premature pump shutoff
- a reduced efficiency of the fuel-vapor recovery system.

The fuel tank is full when the filler nozzle clicks off the first time.

Fuel tank capacity

Approx. 18.5 gallons/70 liters, including the reserve capacity of approx. 2.1 gallons/8 liters.

Refuel as soon as possible once your cruising range falls below 30 miles/ 50 km, as otherwise engine functions are not ensured and damage can occur.◀

Closing fuel filler cap

Fit the cap and turn it clockwise until you clearly hear a click.

Close the filler cap carefully after refueling until a click is heard. While closing, be sure not to squeeze the strap which is fastened to the cap. A loose or missing cap will activate an indicator lamp and the message Check Gas Cap* on the Control Display.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Fuel specifications

The engine uses lead-free gasoline only.

Required fuel

Premium Unleaded Gasoline

The minimum octane rating is 91.
If you use gasoline with this minimum octane rating, the engine may produce knocking sounds when starting at high outside temperatures. This has no affect on the engine life.

Minimum octane rating corresponds to the Anti Knock Index AKI and is determined according to the so-called (R+M)/2 method.

Do not use leaded gasoline, as otherwise the lambda probe and catalytic converter will be permanently damaged.◀

Use high-quality brands

Field experience has indicated significant differences in fuel quality: volatility, composition, additives, etc., among gasolines offered for sale in the United States and Canada. Fuels containing up to and including 10% ethanol or other oxygenates with up to 2.8% oxygen by weight, that is, 15% MTBE or 3% methanol plus an equivalent amount of co-solvent, will not void the applicable warranties with respect to defects in materials or workmanship.

The use of poor-quality fuels may result in drivability, starting and stalling problems, especially under certain environmental conditions such as high ambient temperature and high altitude.
Should you encounter drivability problems which you suspect could be related to the fuel you are using, we recommend that you respond by switching to a recognized high-quality brand.
Failure to comply with these recommendations may also result in unscheduled maintenance.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Wheels and tires

Tire inflation pressure

Information for your safety

It is not merely the tire's service life, but also driving comfort and – to a great extent – driving safety that depend on the condition of the tires and the maintenance of the specified tire pressure.

Checking pressure

Only check tire inflation pressure when the tires are cold. This means after a maximum of 1.25 miles/2 km driving or when the vehicle has been parked for at least 2 hours. When tires are warm, the tire inflation pressure increases.

Check the tire inflation pressure regularly and correct it as needed, even on the compact tire: at least twice a month and before starting long trips. If you fail to observe this precaution you may be driving on tires with incorrect tire pressures, a condition that can not only compromise your vehicle's driving stability, but also lead to tire damage and the risk of an accident. Do not drive with deflated, i.e. flat tires, except run-flat tires. A flat tire will seriously impair your vehicle's handling and braking response. Attempts to drive on a flat tire can lead to loss of control over the vehicle.◀

After correcting the inflation pressure(s), always reinitialize the Flat Tire Monitor, refer to page 80.◀

Pressure specifications for factory-installed tires

The inflation pressures for your standard tires at ambient temperature can be found on the door post when you open the driver's door.

Pressure specifications for other tire sizes

The tables below provide all the correct inflation pressures for the specified tire sizes at ambient temperature.

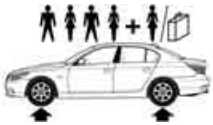
For correct identification of the right tire inflation pressure for your tires, observe the specifications for the corresponding tire size.◀

Tire size

The inflation pressures apply to the tire sizes approved and tire brands recommended by BMW; a list of these is available from your BMW center.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

525i/530i

Tire size	Pressure specifications in psi/kPa			
All pressure specifications in the table are indicated in psi/ kilopascal with cold tires. Cold = ambient temperature				
225/50 R 17 94 V M+S 225/50 R 17 94 W 245/40 R 18 93 W 225/55 R 16 95 Q,T,H M+S 225/50 R 17 94 Q,T,H M+S 525i only: 225/55 R 16 95 V M+S 225/55 R 16 95 V	29/200	35/240	36/250	44/300
245/45 R 17 95 W 245/45 R 17 95 Q,T,H,V M+S	29/200	32/220	33/230	41/280
Front: 245/40 R 18 93 W	29/200	-	36/250	-
Rear: 275/35 R 18 95 W	-	32/220	-	41/280
Front: 245/35 R 19 89 Y	29/200	-	33/230	-
Rear: 275/30 R 19 92 Y	-	32/220	-	41/280
Compact wheel: T 135/80 R 17 102 M	61/420			
More details on the permissible load and weights can be found on page 198.				

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

545i

Tire size	Pressure specifications in psi/kPa			
All pressure specifications in the table are indicated in psi/ kilopascal with cold tires. Cold = ambient temperature				
225/50 R 17 94 V M+S 225/50 R 17 94 W 245/40 R 18 93 Y 225/50 R 17 94 Q,T,H M+S	32/220	38/260	38/260	45/310
245/45 R 17 95 W 245/45 R 17 95 Q,T,H,V M+S	29/200	35/240	35/240	42/290
Front: 245/40 R 18 93 Y	32/220	-	38/260	-
Rear: 275/35 R 18 95 Y	-	35/240	-	42/290
Front: 245/35 R 19 89 Y	32/220	-	38/260	-
Rear: 275/30 R 19 92 Y	-	35/240	-	42/290
Compact wheel: T 135/80 R 17 102 M	61/420			
More details on the permitted load and weights can be found on page 198.				

Tire identification marks

Knowledge of the labeling on the side of the tire makes it easier to identify and choose the right tires.

Tire size

e.g. 205/60 R 15 91 W

- Nominal width in mm
- Aspect ratio in %
- Belted construction – radial
- Rim diameter in inches
- Carrying capacity ID-code (not in ZR tires)
- Speed code letter (in ZR tires before the R)

Speed letter

Q = up to 100 mph/160 km/h

T = up to 118 mph/190 km/h

H = up to 131 mph/210 km/h

V = up to 150 mph/240 km/h

W = up to 167 mph/270 km/h

Y = up to 186 mph/300 km/h

Tire Identification Number

Tires with DOT codes meet the guidelines of the U.S. Department of Transport.

DOT code:

e.g. DOT xxxx xxx 3604

- Manufacturer code for tire make
- Tire size and tire design
- Tire age

Tire age

The manufacturing date of tires is contained in the tire coding: DOT … 3604 means that the tire was produced in the 36th week of 2004.

BMW recommends that you replace all tires after 6 years at most, even if some tires may last for 10 years.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Uniform Tire Quality Grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Tread wear 200 Traction AA
Temperature A

DOT Quality Grades

Tread wear
Traction AA A B C
Temperature A B C

All passenger car tires must conform to Federal Safety Requirements in addition to these grades.◀

Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half, 1 ½, times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction

The traction grades, from highest to lowest, are AA, A, B, and C.
Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.◀

Temperature

The temperature grades are A, the highest, B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.◀

RSC – run-flat tires

You will recognize run-flat tires by a circular symbol containing the letters RSC on the side of the tire, refer to page 174.

M+S

Winter and all-season tires.
These have better winter properties than summer tires.

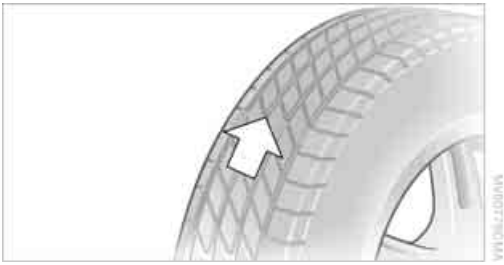
Tire condition

Inspect your tires frequently for tread wear, signs of damage and for foreign objects lodged in the tread. Check the tread depth.

Minimum tread depth

The tread depth should not drop below 0.12 in/3 mm, although, for example, European legislation only specifies a minimum tread depth of 0.063 in/1.6 mm. At tread depths below 0.12 in/3 mm there is an increased risk of high-speed hydroplaning, even when only small amounts of water are present on the road surface.
When winter tires wear down past a tread depth of 0.16 in/4 mm, they become perceptibly less suitable for winter conditions. For the sake of safety, new tires should be installed.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG



Wear indicators at the tread-groove base, refer to arrow, are distributed over the tire's circumference and are marked on the side of the tire with TWI – Tread Wear Indicator. If the indicators are at the level of the tread, the legally permissible tread depth of 0.063 in/1,6 mm has been reached.

Wheel/tire damage

Please note that low-profile tires cause wheels, tires and suspension parts to be more susceptible to road hazard and consequential damages. Unusual vibrations encountered during normal vehicle operation can indicate tire failure or some other vehicle defect. This can, for example, be caused by driving over curbs. These kinds of problems may also be signaled by other changes in vehicle response, such as a strong tendency to pull to the left or right.

In these cases, reduce speed immediately and have wheels and tires thoroughly checked. To do so, drive carefully to the nearest BMW center or tire shop that works according to BMW repair procedures with correspondingly trained personnel. If necessary, have the vehicle towed there. Tire damage can be extremely dangerous for vehicle occupants and other road users.◀

Servicing tires

Unprofessional attempts by laymen to service tires can lead to damage and accidents. Have this work performed by skilled professionals only. The technicians at your BMW center will be glad to assist you with the required professional knowledge and specialized equipment.◀

Run-flat tires*

You will recognize run-flat tires by a circular symbol containing the letters RSC on the side of the tire.
Run-flat tires consist of self-contained tires and special rims. The tire reinforcement ensures that the tire retains some residual safety in the event of pressure drop and driving remains possible to a restricted degree.

New wheels and tires

Have new wheels and tires installed only by your BMW center or tire shop that works according to BMW repair procedures with correspondingly trained personnel. If this work is not carried out properly, there is a danger of subsequent damage and related safety hazards.◀

Retreaded tires

BMW does not recommend that you use retreaded tires, since driving safety may be impaired. The causes for this include the possibly different tire casing structures and the often wide variations in their age, which can result in a limited service life.◀

The right wheels and tires

BMW recommends that you use only wheel and tire combinations that BMW has tested and approved for your particular vehicle. Variations in factors such as manufacturing tolerances mean that even wheels and tires with identical official size ratings could actually have different dimensions than the

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

approved units – these differences could lead to body contact, and with it the risk of severe accidents. If non-approved wheels and tires are used, BMW cannot evaluate their suitability, and therefore cannot be held liable for driving safety.◀

You can inquire about the right wheel/tire combination at your BMW center.

The correct combination of wheels and tires is another vital factor in ensuring reliable operation of various vehicle systems such as ABS and DSC.

To maintain good handling and vehicle response, use only tires of a single tread configuration from a single manufacturer. After a flat tire, have the original wheel and tire combination remounted on the vehicle as soon as possible.

Recommended tire brands

BMW tests certain tire brands for each tire size, classifies them as road-safe and approves them. Consult your BMW center for more information.
Observe any country-specific regulations, e.g. on making a corresponding entry in the vehicle documents.

The factory-mounted tires have been specially selected to provide optimized performance when installed on your vehicle; if properly cared for, they will provide a combination of safety and excellent ride comfort.

Run-flat tires

When mounting new tires or changing from summer tires to winter tires or vice versa, use run-flat tires because there is no spare tire in case of a flat. Your BMW center will be glad to advise you.

For safety reasons, BMW recommends that you do not have damaged run-flat tires repaired; they should be replaced.◀

Special characteristics of winter tires

BMW recommends winter tires for use in cold winter driving conditions. Although all-season M+S tires provide better winter traction than summer tires, they generally fail to provide the same levels of cold-weather performance as winter tires.

Pay attention to speed

Do not exceed the maximum permissible speed for the winter tires, otherwise tire damage may occur, which can result in accidents.◀

Storage

Always store wheels and tires in a cool, dry place with as little exposure to light as possible. Always protect tires against all contact with oil, grease and fuels. Do not exceed the maximum tire inflation pressure indicated on the side wall of the tire.

Snow chains*

BMW only tests certain fine-link snow chains, classifies them as road-safe and approves them. Consult your BMW center for more information. BMW recommends using these approved, fine-link snow chains.
Use is only permitted in pairs, with winter tires on the rear wheels.
Observe the manufacturer's instructions when mounting snow chains. Do not exceed a speed of 30 mph/50 km/h with the chains mounted.

After snow chains are mounted, do not initialize the Flat Tire Monitor.
When driving with snow chains, it can be useful to activate the DTC temporarily, refer to page 78.◀

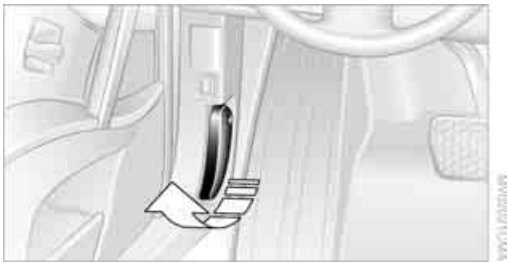
Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Under the hood

Never attempt to perform any service or repair operations on your vehicle without the required, professional technical training. If you do not know what repair procedures to follow, have work on your vehicle done only by your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel. If this work is not carried out properly, there is a danger of subsequent damage and related safety hazards.◀

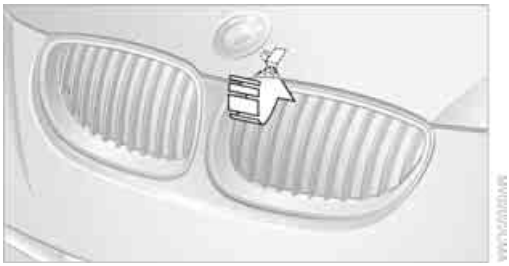
Hood

Releasing



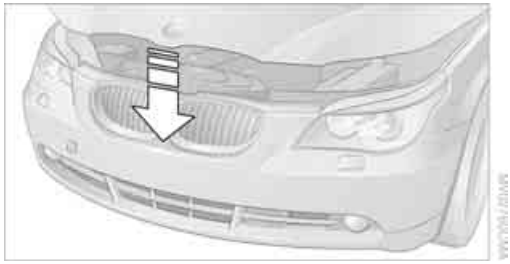
Pull the lever located under the left side of the instrument cluster.

Opening



Press the release handle and open the hood.

Closing



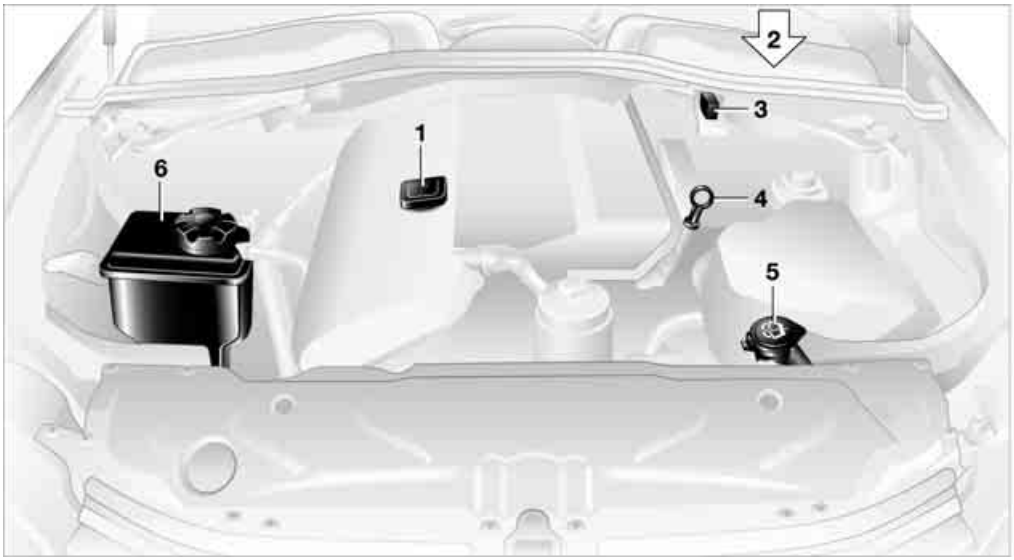
Close the hood from a height of approx. 16 in/ 40 cm with momentum. It must be clearly heard to engage.

Make sure that the closing path of the hood is clear, as otherwise injuries may result.

If you see any signs that the hood is not completely closed while driving your vehicle, you should stop at once and close it securely.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Engine compartment



1 Filler neck for engine oil, refer to Adding engine oil

2 Brake fluid reservoir, located beneath the microfilter cover

3 Starting-aid terminal, refer to page 190

4 Dipstick for engine oil, refer to Checking oil level. The dipstick is further toward the rear on the 545i

5 Washer fluid reservoir of the headlamp and windshield cleaning systems, refer to page 58

6 Expansion tank for coolant, refer to page 178

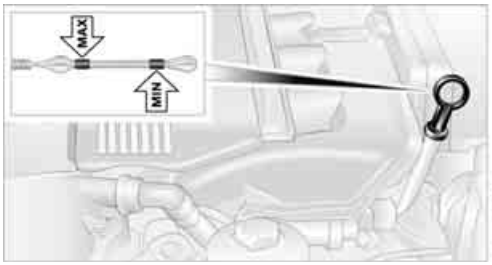
Engine oil

The engine oil consumption is dependent on driving style and driving conditions.

Checking oil level

1. With the engine at operating temperature, i.e. after at least 6 miles/10 km of uninterrupted driving, park the vehicle in a horizontal position.
2. Switch off the engine.
3. After approx. 5 minutes, pull out the dipstick **4** and wipe it off with a clean lint-free cloth, paper towel, or similar material.
4. Carefully push the dipstick all the way into the guide tube and pull it out again.

The oil should extend to between the two marks on the dipstick.

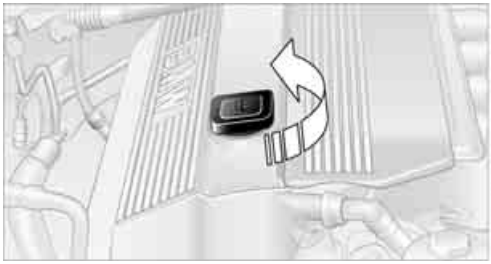


The oil quantity between the middle of the two marks on the dipstick is approx. 1.6 US quarts/ 1.5 liters.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Do not exceed the upper marking on the dipstick, otherwise an overfilling of oil can damage the engine.◀

Adding engine oil



Do not top off the oil until the oil level has dropped to just above the lower marking on the dipstick. In this area a message also appears on the Control Display.

Refill the oil within the next 125 miles/ 200 km, otherwise engine damage could result.◀

Continuous exposure to used oil has caused cancer in laboratory testing.
For this reason, any skin areas that come into contact with oil should be thoroughly washed with soap and water.
Store oil, grease, etc., well out of the reach of children; always observe all warning labels on the containers.◀

Oil change

Have oil changed only at your BMW center or at a workshop that works according to BMW repair procedures with correspondingly trained personnel.

Specified engine oils

The quality of the engine oil selected has critical significance for the operation and service life of an engine. BMW continuously approves specific oils after confirming their suitability for use in its vehicles with extensive testing.

Use only approved BMW High Performance Synthetic Oil.

If you are unable to obtain BMW High Performance Synthetic Oil, you can add small amounts of another synthetic oil between oil changes. Use only oils with the API SH specification or higher.

Ask your BMW center for details concerning the specific BMW High Performance Synthetic Oil or synthetic oils which have been approved.◀

You can also call BMW of North America at 1-800-831-1117 or visit this website: www.bmwusa.com to obtain this information.

Viscosity ratings

Viscosity is the oil flow rating as defined in SAE classes.

The selection of the correct SAE class depends on the climatic conditions in the area where you typically drive your BMW.

Approved oils are in SAE classes 5W-40 and 5W-30.◀

These oils may be used for driving in all ambient temperatures.

Coolant

Do not add coolant to the cooling system when the engine is hot. Escaping coolant can cause burns.◀

Coolant consists of water and the addition of antifreeze and anticorrosion agent. Not all commercially available additives are suitable for your BMW. Ask your BMW center for suitable additives.

Only use suitable additives, as otherwise engine damage may result. The additives present a health hazard; observe the instructions on the containers.◀

Comply with the appropriate environmental protection regulations when disposing of coolant additives.◀

Checking coolant level

1. The engine must be at ambient temperature.
2. Turn the cap of the expansion tank counterclockwise to allow any accumulated pres-

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

sure to escape, then continue turning to open.

3. The coolant level is correct when the coolant level is between the MIN and MAX marks, refer to the diagram adjacent to the filler neck.

4. If the coolant is low, slowly add coolant up to the specified level – do not overfill.
5. Turn the cap until there is an audible click.
6. Have the reason for the coolant loss eliminated as soon as possible.

Brake system

Malfunctions

Brake fluid

The warning lamp lights up in spite of the handbrake being released; a message appears on the Control Display: Stop immediately.
The brake fluid in the reservoir has fallen to below the minimum level. At the same time, a considerably longer brake pedal travel may be noticeable. Have the system thoroughly checked.

Display of the previously described malfunction on Canadian models.

When you continue driving, an increased brake pedal path can be necessary, and significantly longer braking distances might be required. Please adapt your driving style accordingly.◀

Brake pads

The warning lamp lights up in spite of the handbrake being released; a message appears on the Control Display: The brake pads have reached their minimum pad thickness. Have brake pads replaced immediately.

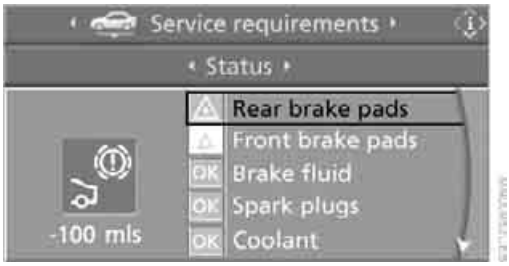
Display of the previously described malfunction on Canadian models.

For your own safety: use only brake pads that BMW has approved for the corresponding vehicle model. As BMW cannot assess the suitability of other brake pads for use on your vehicle, we are unable to assume continued responsibility for the vehicle's operating safety if non-approved pads are installed.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Maintenance

The BMW maintenance system



The BMW maintenance system supports the preservation of the traffic and operating safety of your BMW. The service schedule also includes operations related to the vehicle's comfort and convenience features, such as replacement of the filters for the inside air. The ultimate objective is to ensure economical maintenance by providing the ideal service for your vehicle.

Should the day come when you decide to sell your BMW, you will find that a complete dealer service history is an asset of inestimable value.

CBS Condition Based Service

Sensors and special algorithms take the different driving conditions of your BMW into account. Condition Based Service uses this to determine the current and future service requirements. By letting you define a service and maintenance regimen that reflects your own individual requirements, the system builds the basis for trouble-free driving.

You can set the Control Display to show remaining times or distances of selected maintenance intervals and legally mandated deadlines, refer to page 66:

- Engine oil
- Brakes, front and rear separately
- Microfilter/activated-charcoal filter
- Brake fluid
- Spark plugs
- Vehicle check
- Legally mandated inspections depending on local regulations

Your vehicle stores this information continuously in the master key while the vehicle is being driven. After accessing the data stored in the master key, your BMW Service Advisor can suggest precisely the right array of service procedures for your own individual vehicle. You should therefore hand over to the BMW Service Advisor the key you last used to drive when you take your vehicle in for service.

Make sure the date in the Control Center is always set correctly, refer to page 74, as otherwise the effectiveness of CBS Condition Based Service is not ensured.◀

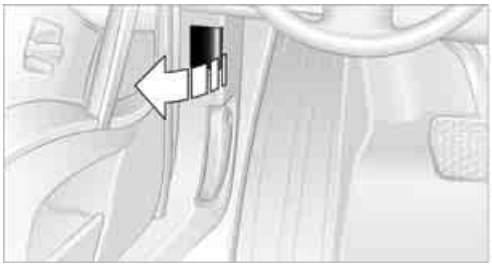
Service and Warranty Information Booklet for US models and Warranty and Service Guide Booklet for Canadian models

Please consult your Service and Warranty Information Booklet for US models and Warranty and Service Guide Booklet for Canadian models for additional information on service requirements.

BMW recommends that you have service and repair operations performed at your BMW center.
Take the time to ensure that these service procedures are confirmed by entries in your vehicle's Service and Warranty Information Booklet for US models and Warranty and Service Guide Booklet for Canadian models. These entries verify that your vehicle has received the specified regular maintenance.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

OBD Socket



The Onboard Diagnostics OBD interface socket is located on the left of the driver's side under the instrument panel and under a cover. The cover has the letters OBD on it.

The purpose of the OBD system is to ensure proper operation of the emission control system for the vehicle's lifetime. The system monitors emission-related components and systems for deterioration and malfunction.

An illuminated lamp informs you of the need for service, not of the need to stop the vehicle. However, the systems should be checked by your BMW center at the earliest possible opportunity.

Display of the previously described malfunction on Canadian models.

Under certain conditions, the indicator will blink or flash. This indicates a rather severe level of engine misfire. When this occurs, you should reduce speed and consult the nearest BMW center as soon as possible. Severe engine misfire over only a short period of time can seriously damage emissions control components, especially the catalytic converter.

▷ When the fuel filler cap is not properly tightened, the OBD system can detect the vapor leak and the indicator will light up. If the filler cap is subsequently tightened, the indicator should go out within a few days.◀

Event Data Recorders

Your vehicle may be equipped with one or more sensing and diagnostic modules or a recording device capable of recording or transmitting certain vehicle data or information. In addition, if you have a Subscription Service Agreement for the BMW Assist system, certain vehicle information may be transmitted or recorded in order to provide such services.

Care

Important information on the care and maintenance of your BMW is contained in the Caring for your vehicle brochure.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Replacing components

Onboard tool kit

The on-board tool kit is located in the luggage compartment lid.

Loosen the wingnut to open.

Wiper blade replacement

1. Fold the wiper arm out and grasp firmly.
2. Press the safety tabs together while sliding the wiper blade toward the front to disengage it.

Lamps and bulbs

Lamps and bulbs make an essential contribution to vehicle safety. You must be duly diligent in replacing them. BMW recommends having your BMW center perform any work that you do not feel competent to perform yourself or that is not described here.

Never touch the glass of new bulbs with your bare fingers, as even minute amounts of contamination will burn into the bulb's surface and reduce its service life. Use a clean cloth, napkin, etc., or hold the bulb by its metal socket.◀

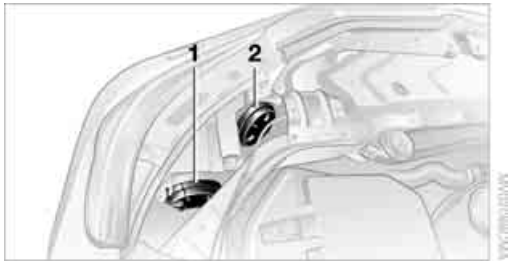
You can obtain a selection of replacement bulbs at your BMW center.

Whenever you perform any work on the lighting system, turn off the lights involved so as to prevent short circuits from occurring. To avoid possible injury or equipment damage when replacing bulbs, observe any instructions provided by the bulb manufacturer.◀

For care and maintenance of the headlamps, please follow the instructions in the separate Caring for your vehicle brochure.

Halogen headlamps

The illustration shows the left-hand side of the engine compartment.



1 Cover cap for low beams

2 Cover cap for high beams

Turn the cover cap to the left and remove.

Always wear gloves and eye protection – the atmosphere within the H7 bulb is pressurized. Failure to observe this precaution can lead to personal injury should the bulb be damaged.◀

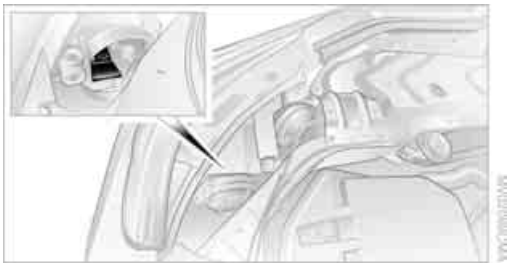
For checking and adjusting headlamp aim, please contact your BMW center.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Low beams

H7 bulb, 55 watts

1. Turn the bulb holder to the left and remove.

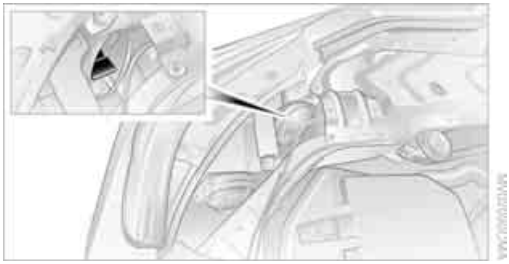


2. Remove and replace the bulb.

High beams

H7 bulb, 55 watts

1. Turn the bulb holder to the left and remove.

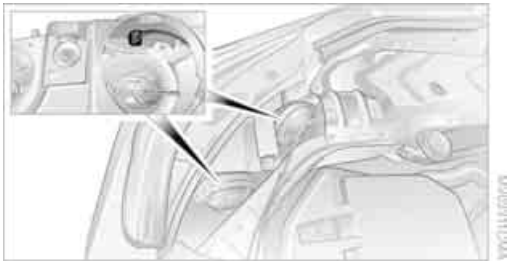


2. Remove and replace the bulb.

Parking and roadside parking lamps

Bulb 5 watts, W 5 W

1. Turn the cover cap for low beams or high beams to the left and remove.
2. Pull out the bulb holder.



3. Remove and replace the bulb.

Xenon lamps*

The service life of these bulbs is very long and the probability of a failure is very low, provided that they are not switched on and off an unusual number of times. In the unlikely event that one of these lamps should fail, you can respond by switching on your fog lamps and proceeding carefully in accordance with the reduced visibility, where allowed by law.

⚠ Have work on the Xenon lighting system performed only by your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel. Due to the high voltage present in the system, there is a danger of fatal injuries when work is carried out improperly.◀

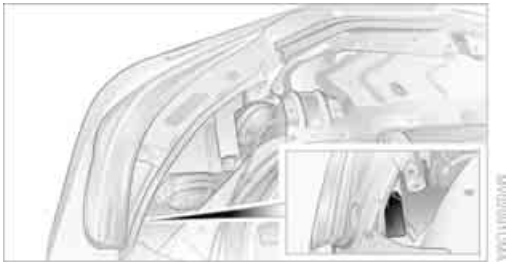
Parking and roadside parking lamps

In the event of a malfunction, please go to your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.

Turn signals, front

Bulb 21 watts, PY 21 W

1. Turn the bulb holder to the left and remove.



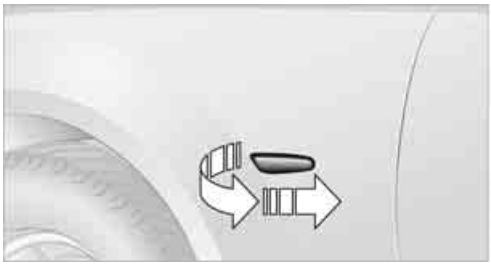
2. Apply gentle pressure to the bulb while turning it to the left for removal and replacement.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Side-mounted turn signals

Bulb 5 watts, W 5 W

1. Press back against the front edge of the light with the tip of your finger, then pivot it out.



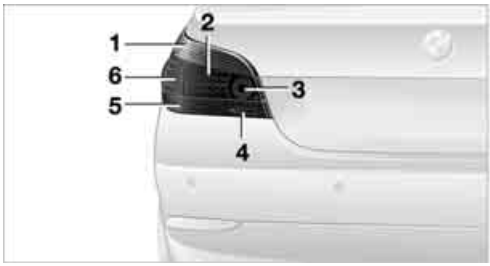
2. Turn the bulb holder to the left and remove.
3. Extract the bulb for replacement.

Side marker lamps, front and rear

To replace, please go to your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.

Tail lamps

- ▷ Turn signals: bulb 21 watts, PY 21 W
- ▷ Backup lamps: bulb 16 watts, W 16 W
- ▷ Other lamps: bulb 21 watts, P 21 W



1 Turn signals

2 Tail lamp and brake lamp

3 Tail lamp and brake lamp

4 Backup lamps

5 Reflector

6 Roadside parking lamp, tail lamp and brake lamp

Center brake lamp

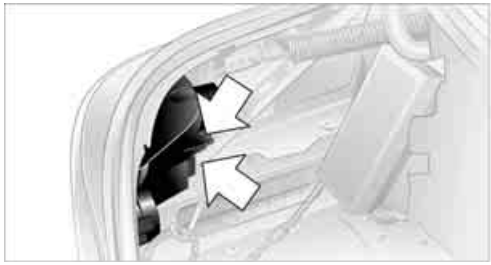
This lamp uses LED technology for operation. In the event of a malfunction, please go to your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.

Fender-mounted lamps

The illustration shows the recess on the left side of the luggage compartment.

All the bulbs are integrated into a central bulb fitting.

1. Lift up floor mat.
2. Undo the quick-release fasteners of the side panel and pull out the panel.
3. Press together at the top and bottom of the bulb holder and remove.



4. Backup lamps:
   Remove and replace the bulb.
   Other lamps:
   Apply gentle pressure to the bulb while turning it to the left for removal and replacement.

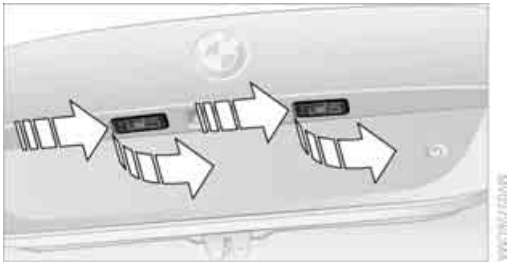
Lamps in luggage compartment lid

License plate lamp

Bulb 5 watts, C 5 W

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

1. Insert screwdriver into the slot and press to the right, refer to arrows. This releases the lamp.



2. Remove the lamp and replace the bulb.

Backup lamps

In the event of a malfunction, please go to your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.

LEDs light-emitting diodes

Light-emitting diodes installed behind translucent lenses serve as the light source for many of the controls and displays in your vehicle. These light-emitting diodes, which operate using a concept similar to that applied in conventional lasers, are officially designated as Class 1 light-emitting diodes.

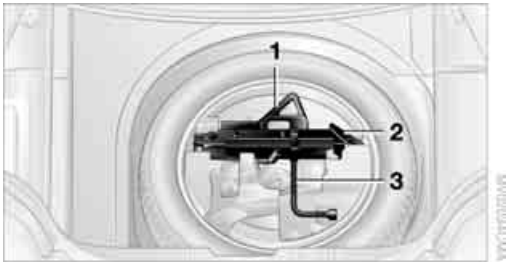
Do not remove the covers, and never stare directly into the unfiltered light for several hours, as this could result in irritation of the retina.◀

Changing wheels

Safety precautions in the event of a flat tire or wheel change: Park the vehicle as far as possible from passing traffic and on solid ground. Switch on the hazard warning flashers. Lock the steering wheel in straight-ahead setting of the wheels. Apply the handbrake and engage first gear, reverse gear or selector lever position P.
Have all vehicle occupants get out of the vehicle and ensure that they remain outside the immediate area in a safe place, such as behind a guardrail.
If a warning triangle or portable hazard warning lamp is required, set it up on the roadside at an appropriate distance from the rear of the vehicle. Comply with all safety guidelines and regulations.
Change the wheel only on a level, firm surface which is not slippery. The vehicle or the jack could slip to the side if you attempt to raise the vehicle on a soft or slippery surface such as snow, ice, tiles, etc.
Position the jack on a firm support surface.
Do not use a wooden block or similar object as a support base for the jack, as this would prevent it from extending to its full support height and reduce its load-carrying capacity.
To avoid serious or fatal injury: never lie under the vehicle, and never start the engine while it is supported by the jack.◀

What you will need

To avoid rattling noises later on, note the positions of the tools before removing them, then return them to their initial positions after completing work.



1 Chock*

2 Vehicle jack*

3 Lug wrench*

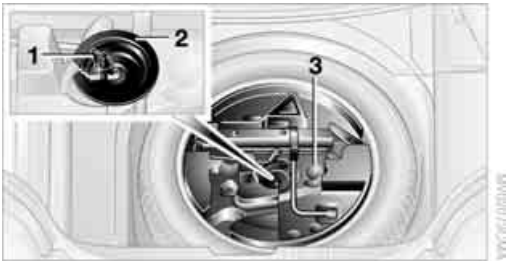
The tools are located in the hollow of the compact wheel.

1. Lift up floor mat or floor panel flap and cover located beneath it.
2. Take out the required tools.
3. After using the tools, return then to the storage space.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

With run-flat tires, no tools are provided for wheel changes. They can be purchased as accessories at your BMW center.◀

Compact wheel*



1. Unscrew the wing nut **1**.
2. Remove the washer **2** laterally.
3. Take out the tool mounts **3**.
4. Remove the compact wheel.

Preparing wheel change

1. Observe the safety precautions above.
2. Prevent the vehicle from rolling:
   Place the chock behind the front wheel on the other side of the vehicle, or on inclines, in front of this wheel. On a steep grade, take other steps to prevent the vehicle from rolling.
3. Loosen the lug bolts a half turn.

Jacking up vehicle

1. Position the vehicle jack at the jacking point closest to the wheel so that the entire surface of the jack base rests on the ground perpendicularly beneath the jacking point.

   The vehicle jack is designed for changing wheels only. Do not attempt to raise another vehicle model with it or to raise any load of any kind. To do so could cause accidents and personal injury.◀

2. Guide the jack head into the rectangular recess of the jacking point when cranking up, refer to illustration detail.

3. Jack the vehicle up until the wheel you are changing is raised from the ground.

Mounting a wheel

1. Unscrew the lug bolts and remove the wheel.
2. Remove accumulations of mud or dirt from the mounting surfaces of the wheel and hub. Also clean the lug bolts.
3. Position the new wheel or compact wheel. Secure the wheel by turning at least two lug bolts into opposite bolt holes.
   When you mount wheels other than Genuine BMW light-alloy wheels, different lug bolts may also be required.
4. Screw in the remaining lug bolts. Tighten all the bolts securely in a diagonal pattern.
5. Lower the vehicle and remove the jack from beneath the vehicle.

After mounting

1. Tighten the lug bolts in a diagonal pattern.

   To ensure safety, always have the lug bolts checked with a calibrated torque wrench as soon as possible to ensure that they are tightened to the specified torque. The tightening torque is 88.5 lb ft/120 Nm.◀

2. When stowing the wheel and tools in the vehicle, execute these steps in the reverse order.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

3. Check and correct the tire inflation pressure at the earliest opportunity.

   Protect valve stems and valve stem seal caps against dirt and contamination. Dirt in valve stems is a frequent source of gradual air loss.◀

4. Reinitialize the Flat Tire Monitor, refer to page 80.
5. Replace the damaged tire with a new one as soon as possible and have the new wheel balanced.

Driving with compact wheel

Drive reservedly and do not exceed a speed of 50 mph/80 km/h.

The driving characteristics change, for example reduced track stability on braking, extended braking distance, and altered self-steering characteristics in the limit range. In conjunction with winter tires, these characteristics are more pronounced.

Only one compact wheel may be mounted. You should re-equip with wheels and tires of the original size as quickly as possible.◀

Vehicle battery

Battery care

The battery is 100% maintenance-free, i.e., the electrolyte will last for the life of the battery when the vehicle is operated in a temperate climate. Your BMW center will be glad to advise in all matters concerning the battery.

Charging battery

Only charge the battery in the vehicle via the terminals in the engine compartment with the engine off. Connections, refer to Jump starting on page 190.

Disposal

Have old batteries disposed of by your BMW center or hand them in to a recycling center. Maintain the battery in an upright position for transport and storage. Always restrain the battery to prevent it from tipping over during transport.◀

Power failure

After a temporary power loss, the functioning of some equipment may be limited and require reinitialization. Individual settings are also lost and must be updated again:

- Active steering
  The system is deactivated and must be initialized, refer to page 81. Until then, the steering will react differently than usual.
- Seat, mirror and steering wheel memory
  The positions must be stored again, refer to page 40.
- Time and Date
  The settings must be updated, refer to page 74.
- Radio
  Stations must be stored again, refer to page 140.
- Navigation system
  You must wait until it becomes operational again, refer to page 128.

Fuses

Never attempt to repair a blown fuse and do not replace a defective fuse with a substitute of another color or amperage rating, as this could lead to a circuit overload, ultimately resulting in a fire in the vehicle.◀

Spare fuses, plastic tweezers and fuse allocation diagram are located in the compartment for the onboard tool kit, refer to page 182.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

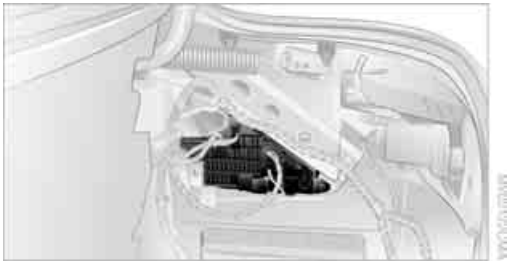
In glove compartment

1. Release both quick-release fasteners.

2. Fold the cover forward or remove.

In luggage compartment

1. Lift up floor mat.
2. Release the quick-release fastener of the right side panel and pull out the panel.



Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Giving and receiving assistance

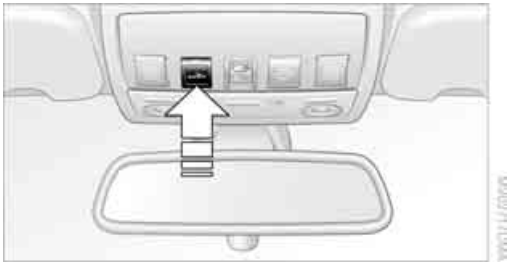
Emergency calling*

Conditions for an emergency call:

- ▷ Once ignition key is in position 1.
- ▷ The car phone is logged on to a cellular telephone network.
- ▷ The emergency call system is operable.

Initiating an emergency call

1. To open the protective cover of the keypad: touch the protective cover.



2. Press the button for at least 2 seconds.

   The indicator lamp in the button lights up. As soon as the voice connection to the BMW Assist response center has been established, the indicator lamp flashes.

If conditions allow, remain in the vehicle until the connection has been established. You will then be able to provide a detailed description of the situation.

If the current location of your vehicle can be determined with vehicles with an activated BMW Assist, it will be transmitted to the BMW Assist response center.

Activating BMW Assist, refer to page 161.

If the indicator lamp flashes, but you are unable to hear the BMW Assist response center through the hands-free system, this could indicate, for instance, that the hands-free system is no longer operational. However, the BMW Assist response center may then still be able to hear you.

Under certain conditions, an emergency call is automatically initiated immediately after a severe accident. The automatic emergency call is not affected by the button being pressed.

⚠ For technical reasons, the emergency call cannot be guaranteed under unfavorable conditions.◀

Warning triangle*

⚠ Always observe all legal regulations requiring a warning triangle to be carried in the vehicle.◀

The warning triangle is located in the luggage compartment lid.

Loosen the wingnut to open.

First-aid kit*

⚠ Some of the articles contained in the first-aid kit have a limited service life. Therefore, check the expiration dates of the contents regularly and replace the contents concerned in good time if necessary. You can find replacements in any pharmacy. Comply with legal requirements requiring you to carry a first-aid kit in the vehicle.◀

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

The first-aid kit is located in the luggage compartment lid.

Loosen the wingnut to open.

Roadside Assistance*

The Roadside Assistance of the BMW Group offers you assistance in the event of a breakdown around the clock, also on weekends and public holidays.

The phone numbers of the Roadside Assistance in your home country can be found in the Contact brochure.

In the case of vehicles with BMW Assist or TeleService, you can contact the Roadside Assistance of the BMW Group for assistance in the event of a breakdown directly via the Control Center, refer to page 163.

Jump starting

When your battery is discharged, you can use two jumper cables to start your BMW with power from the battery in a second vehicle. You can also use the same method to help start another vehicle. Use only jumper cables with fully-insulated clamp handles.

To avoid the risk of potentially fatal injury, always avoid all contact with electrical components while the engine is running. Carefully adhere to the following sequence, both to prevent damage to one or both vehicles, and to guard against possible personal injuries.◀

Preparation

1. Check whether the battery of the other vehicle has a voltage of 12 Volts and approximately the same capacitance in Ah. This information can be found on the battery.
2. Switch off the engine of the assisting vehicle.
3. Switch off any electrical accessories in both vehicles.

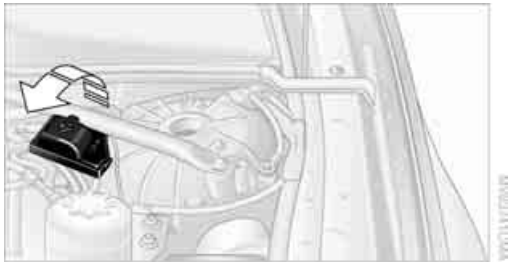
There must not be any contact between the bodies of the two vehicles, as otherwise there is a danger of shorting.◀

Connecting jumper cables

To avoid personal injury from sparks, always observe this sequence when connecting jumper cables.◀

On your BMW, the so-called starting-aid terminal in the engine compartment serves as the battery positive terminal, also refer to Engine compartment essentials on page 177. The symbol + is embossed on the cover.

1. Fold open the cover of the BMW starting-aid terminal. To do so, pull the tab.



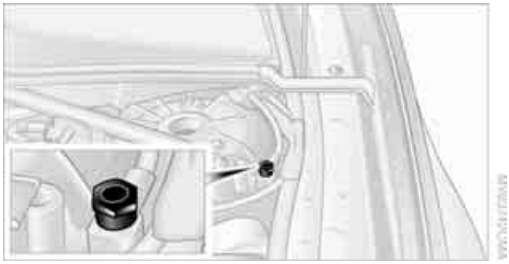
2. Attach one end of the jumper cable plus/+ to the positive terminal of the battery or a starting-aid terminal of the vehicle providing assistance.
3. Attach the second end of the cable to the positive terminal of the battery or to a starting-aid terminal of the vehicle to be started.

Your BMW has a special nut as body ground or negative pole.

4. Attach one end of the jumper cable minus/– to the negative terminal of the battery or to

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

an engine or body ground of the assisting vehicle.



5. Attach the second end of the cable to the negative terminal of the battery or to the engine or body ground of the vehicle to be started.

Starting engine

1. Start the engine on the assisting vehicle and allow it to run for several minutes at increased speed.
2. Start the engine on the other vehicle in the usual way. If the first start attempt is not successful, wait a few minutes before another attempt in order to allow the discharged battery to recharge.
3. Let the engines run for a few minutes.
4. Disconnect the jumper cables by reversing the connection sequence.

Check the battery and recharge if necessary.

Never use spray fluids to start the engine.◀

Towing and tow-starting

Always observe all applicable towing laws and regulations.◀

Never allow passengers to ride in a towed vehicle for any reason.◀

Using tow fitting

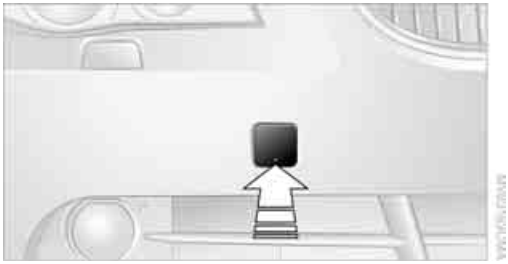
The threaded tow fitting is stored in the onboard tool kit and must always remain in the vehicle. It can be screwed in at the front or rear of the BMW.

In order to avoid damaging the tow fitting and the vehicle, please follow these instructions: use only the tow fitting provided with the vehicle and screw it all the way in. Use the tow fitting for towing only on roads. Avoid lateral loading of the tow fitting, e.g. do not lift the vehicle by the tow fitting.◀

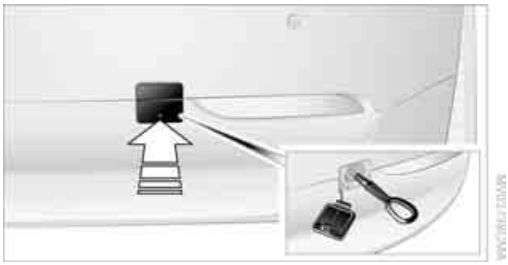
Access to screw thread

Rectangular cover panel in bumper: press on the arrow symbol on the cover panel.

Front



Rear



Being towed

Make sure that the ignition key is in position 1, as otherwise the steering lock will engage, making it impossible to steer the vehicle. There is no power assist with the engine stopped. This then requires increased effort for braking and steering. Active steering is deactivated and larger steering wheel movements are required.◀

Switch on the hazard warning flashers depending on the local regulations. If the electrical system fails, mark the vehicle to be towed, e.g. with a sign or warning triangle in the rear window.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Vehicles with manual transmission

Gearshift lever in neutral position.

Vehicles with automatic transmission

Selector lever in position N.

Do not exceed a towing speed of 45 mph/ 70 km/h and a towing distance of 90 miles/150 km, as otherwise the automatic transmission may be damaged.◀

Vehicles with SMG Sequential manual transmission

With the ignition switched on, engage the selector lever position N, then switch off the ignition again.

Towing methods

In some countries, towing with tow bars or ropes in public traffic is not permitted. Familiarize yourself with the regulations on towing in the respective country.

With tow bar

The towing vehicle may not be lighter than the vehicle to be towed, as otherwise it will not be possible to control vehicle response.◀

The tow fittings used should be on the same side on both vehicles. Should it prove impossible to avoid mounting the tow bar at an offset angle, please observe the following:

- ▷ Clearance and maneuvering capability will be sharply limited during cornering.
- ▷ When mounted at an angle, the tow bar will exert lateral forces, tending to push the vehicle sideways.

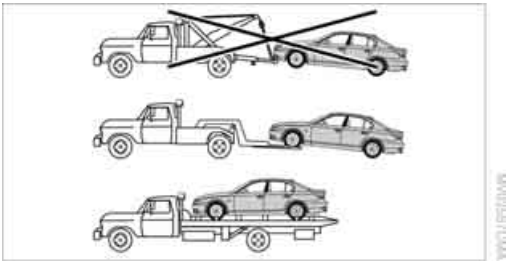
Secure the tow bar to the tow fitting only. Otherwise damage to other vehicle parts could result.◀

With tow rope

When starting off in the towing vehicle, make sure that the tow rope is taut.

To avoid jerking and the associated stresses on vehicle components when towing, always use nylon ropes or nylon straps. Secure the tow rope to the tow fitting only. Otherwise damage to other vehicle parts could result.◀

With tow truck



Have the BMW transported with a tow truck with a so-called lift bar or on a load bed.

Do not lift vehicle by tow fitting or body and chassis parts, as otherwise damage may result.◀

Tow-starting

Do not tow-start vehicles with an automatic transmission.
Jump starting, refer to page 190.◀

Only tow-start vehicles with a catalytic converter with the engine cold. It is better to jump start the engine, refer to page 190.

1. Switch on the hazard warning flashers, comply with country-specific regulations.
2. Turn the ignition key to position 2.
3. Shift into 3rd gear. Vehicles with SMG, see below.
4. Have the vehicle tow-started with the clutch pedal completely depressed and slowly release the clutch. After the engine starts, immediately depress the clutch pedal completely again.
5. Stop at a suitable location, remove the tow bar or rope and switch off the hazard warning flashers.
6. Have the vehicle checked.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Vehicles with SMG Sequential manual transmission:

1. Tow-start in selector lever position N.
2. Select Sequential mode. The correct gear will be selected and engaged automatically.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Reference

This chapter contains the technical data, the short commands of the voice command system, and the index that will direct you as quickly as possible to the information sought.

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Technical data

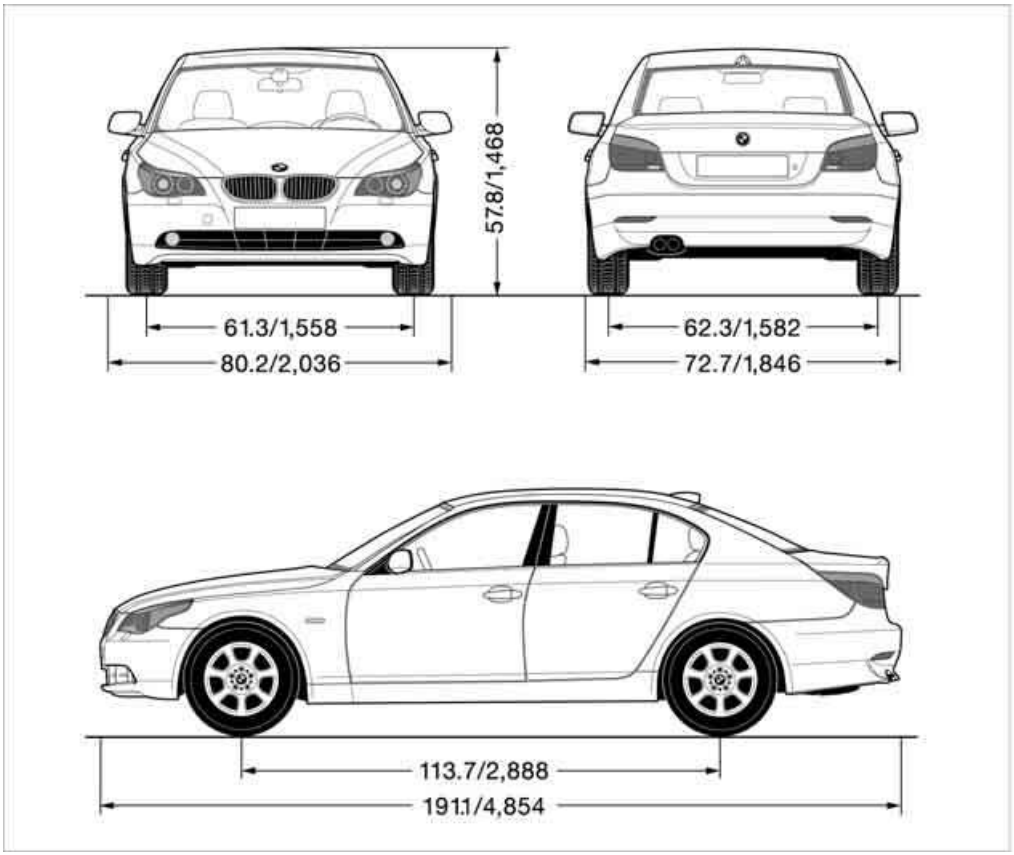
Engine data

		525i	530i
Displacement	cu in/cm³	152.2/2,494	181.8/2,979
Number of cylinders		6	6
Maximum output	hp	184	225
at engine speed	rpm	6,000	5,900
Maximum torque	lb ft/Nm	175/237	214/290
at engine speed	rpm	3,500	3,500

		545i
Displacement	cu in/cm³	268.4/4,398
Number of cylinders		8
Maximum output	hp	325
at engine speed	rpm	5,900
Maximum torque	lb ft/Nm	330/450
at engine speed	rpm	3,600

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Dimensions



All dimensions given in inches/mm. Smallest turning circle diam.: 37.5 ft/11.4 m

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Weights

		525i	530i
Curb weight	lbs./kg		
with manual transmission		3,428/1,555	3,472/1,575
with automatic transmission/SMG		3,450/1,565	3,494/1,585
Approved gross weight	lbs./kg		
with manual transmission		4,530/2,055	4,575/2,075
with automatic transmission/SMG		4,552/2,065	4,597/2,085
Load	lbs./kg	1,102/500	1,102/500
Approved front axle load	lbs./kg	2,161/980	2,227/1,010
Approved rear axle load	lbs./kg	2,601/1,180	2,601/1,180
Approved roof load capacity	lbs./kg	220/100	220/100
Luggage compartment volume	cu ft/l	18.4/520	18.4/520

		545i
Curb weight	lbs./kg	
with manual transmission		3,803/1,725
with automatic transmission/SMG		3,814/1,730
Approved gross weight	lbs./kg	
with manual transmission		4,905/2,225
with automatic transmission/SMG		4,916/2,230
Load	lbs./kg	1,103/500
Approved front axle load	lbs./kg	2,403/1,090
Approved rear axle load	lbs./kg	2,679/1,215
Approved roof load capacity	lbs./kg	220/100
Luggage compartment volume	cu ft/l	18.4/520

Never exceed either the approved axle loads or the gross vehicle weight.

Capacities

			Notes
Fuel tank	gal/liters	approx. 18.5/70	Fuel grade: page 169
Reserve	gal/liters	approx. 2.1/8	
Window and headlamp washer system	quarts/liters	approx. 3.2/3	For more details: page 58
Engine with oil filter renewal	quarts/liters		BMW High Performance Synthetic Oil. Oil grades: page 178
525i, 530i		6.9/6.5	
545i		8.5/8.0	

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Short commands of voice command system*

With short commands you can carry out certain functions directly, regardless of which menu item is selected. Here are the important short commands for the voice command system.

Communication

Function	Command
To open phone 154	›Phone‹
To dial phone number 154	›Dial number‹
To display phone book 155	›A to Z‹
To select from the phone book 155	›Call ...‹ or ›Dial name‹
To display "Top 8" 156	›Top 8‹
To redial 156	›Redial‹
To display "Received calls" 156	›Received calls‹
To display "Missed calls" 156	›Missed calls‹
To display "SMS" 157	›SMS‹
To display "Bluetooth"	›Bluetooth‹
To open BMW Assist 161	›BMW Assist‹

Navigation

Function	Command
To display current position 125	›Current position‹
To open destination entry 115	›Enter address‹ or ›New destination‹
To display "Input map" 117	›Input map‹
To open "Information" 118	›Information menu‹
To display address book 120	›Address book‹ or ›From address book‹
To display route criteria 122	›Route preference‹
To display arrow display 126	›Arrow display‹
To display route map 126	›Map‹, ›Map facing north‹ or ›Map direction of travel‹
To change scale 127	›Scale ... kilometers‹ or ›Scale ... meters‹
To display roads or towns/cities along route 127	›Route list‹

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Onboard info

Function	Command
To display computer 70	›Onboard info‹
To display trip computer 71	›Trip computer‹
To open speed limit 72	›Limit‹
To open stopwatch 72	›Stopwatch‹

Entertainment

Function	Command
To switch on radio 138	›Radio on‹
To open "FM" 138	›FM menu‹
To open "AM" 138	›AM menu‹
To open "All stations" 138	›FM All stations‹
To select radio station 138	›Station‹ Name
To open "Presets" 138	›FM presets‹ or ›AM presets‹
To select stored station 138	›Station ...‹
To open "Manual" 139	›FM manual‹ or ›AM manual‹
To open strongest radio station 139	›AM Autostore‹
To open "CD" 145	›CD menu‹
To select CD 145	›CD 1...6‹
To select music track 146	›Track ...‹

Climate

Function	Command
Move temperature distribution for seat heating forward 44	›Seat heater distribution‹
To open "Vent settings" 92	›Vent settings‹
To open "Automatic programs" 93	›Automatic programs‹
To open "Parked car ventilation" 94	›Parked car operation‹
To open "Automatic ventilation" 94	›Automatic ventilation‹
To display activation times 94	›Activation time‹

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

i menu

Function	Command
To open "Door locks" 29, 31	›Door locks‹
To open "Steering wheel buttons" 46	›Steering wheel buttons‹
To open "Light" 56	›Light‹
To open "Communication settings" 161	›Communication settings‹
To open "BMW Service settings" 161	›BMW Service settings‹
To open "BMW Service" 163	›BMW service‹
To open "Service requirements" 66, 162	›Service requirements‹
To open "Service" 66, 162	›Service‹
To display "Check Control messages" 69	›Check Control messages‹
To open "Display settings" 73	›Display settings‹
To open "Head-Up Display selection" 85	›HUD configurations‹
To set brightness of Control Display 73	›Brightness‹
To open "Units" 73	›Units‹
To open "Languages" 74, 125	›Language‹
To open "Time" 74	›Time‹
To open "Date" 74	›Date‹
To open "PDC" 76	›PDC‹
To open "FTM" 80	›FTM‹
To open "Entertainment settings" 133	›Entertainment settings‹

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Everything from A to Z

Index

"..." Identifies Control Display texts used to select individual functions, pointing out where these are located.

A

ABS Antilock Brake System 77
– indicator lamp 79
– malfunction 79
ACC, refer to Active cruise control 59
Acceleration assistant for SMG Sequential manual transmission 55
Accessories 6
Acoustic Signal, refer to Check Control 67
Activated-charcoal filter 94
"Activation time" for independent ventilation 94
Active cruise control 59
– indicator lamp 60
– malfunction 64
– selecting distance 62
– sensor, refer to Malfunction 64
Active head restraints, front 42
Active roll stabilization 79
Active seat 44
Active seat ventilation 44
Active steering 81
– initializing system 81
– warning lamp 81
Adaptive Head Light 88
"Add digits" for portable phone 155
"Address book" for navigation 120
Address for navigation
– deleting 121
– entering 115
– selecting 121
– storing current position 120
"Add to destination list" 117
Adhesive bandages, refer to First-aid kit 189
Adjusting active backrest width 40
Adjusting temperature in upper body region 93
Adjusting the temperature with automatic climate control 91
Adjusting the thigh support 39
Adjusting the tone during audio operation, refer to Tone control 133
Adjustment in audio mode
– front-to-rear 134
– right/left balance 134
"After opening door" 41
"After unlocking" 41
Airbags 83
– sitting safely 38
– warning lamp 84
Air circulation, refer to Air recirculation 91
Air distribution
– automatic 91
– manual 92
Airing, refer to Ventilation 93
Air recirculation
– AUC Automatic recirculated-air control 91
– recirculated-air mode 91
"Air recirculation on / off" 46
Air vent outlets of automatic climate control 90
Air vents 90
– refer to Ventilation 93
Air volume 91
AKI, refer to Fuel specifications 169
Alarm system 33
– avoiding unintentional alarms 34
– interior motion sensor 34
– switching off the alarm 34
– switching off the tilt alarm sensor and interior motion sensor 34
– tilt alarm sensor 34
All around the center console 14
All around the steering wheel 10
"All channels" 143
"All doors" 29
All-season tires, refer to Winter tires 175
Altering stretch of road 127
"AM", reception range 133, 138
Antenna for portable phone 152
Antifreeze
– coolant 178
– washer fluid 58
Antilock Brake System ABS 77
– indicator lamp 79
Anti-theft alarm system, refer to Alarm system 33
Anti-theft system 29
Anti-trapping mechanism
– glass sunroof, electric 36
– power windows 35
Approved axle loads, refer to Weights 198
Approved gross vehicle weight, refer to Weights 198
Armrest, refer to Center armrest
– rear 100

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Arrival time
– refer to Computer 70
– refer to Starting destination guidance 124
"Arrow display" during navigation 126
Ashtray
– front 99
– rear 100
Assist, refer to BMW Assist 161
Assistance systems, refer to Driving stability control systems 77
Assistance window 20
AUC Automatic recirculated-air control 91
"Audio" 134
Audio 132
– controls 132
– switching on/off 132
– tone control 133
– volume 133
Automatic
– air distribution 91
– air volume 91
– garage door opener 96
– headlamp control 87
– service notification 162
– steering wheel adjustment, refer to Easy entry/exit 45
– storing stations 139
Automatic car washes 108
– also refer to Caring for your vehicle brochure
Automatic climate control 90
– automatic air distribution 91
– settings using the Control Center 92
– switching off 92
Automatic curb monitor 41
"Automatic programs" 93
Automatic recirculated-air control AUC 91
Automatic station search 139
Automatic transmission with Steptronic 55
– convenience start 52
– interlock 51
– kick-down 56
– selector lever interlock 55
– shiftlock 55
– sport program 56
– starting the engine 52
– tow starting 192
– tow-starting 192
"Automatic ventilation" 94
AUTO program for automatic climate control 91
"Autostore" on the radio 140
Average fuel consumption 70
– setting the units 73
Average speed, refer to Computer 70
"Avoid ferries" for navigation 123
Avoid freeways for navigation 122
"Avoid highways" for navigation 122
Avoiding unintentional alarms 34
"Avoid tollroads" for navigation 123
Axle loads, refer to Weights 198
"A - Z" 155

B

Backrests, refer to Seats 38
Backrest width adjustment 39
Backup lamps, refer to Reverse gear 53
– replacing bulbs 184
Backup lamps, refer to Tail lamps 184
Balance, tone control 134
Bandages, refer to First-aid kit 189
Bass, tone control 134
Battery, refer to Vehicle battery 187
– jump starting 190
Being towed 191
Belts, refer to Safety belts 42
Beverage holder, refer to Cup holders 99
Black ice, refer to Ice warning 65
Blower, refer to Air volume 91
BMW Assist 161
– enabling 161
– services offered 162
BMW maintenance system 180
"BMW Service" 163
"BMW Service settings" 162
Bottle holder, refer to Cup holders 99
Brake Assistant, refer to DBC Dynamic Brake Control 77
Brake fluid 179
– warning lamp 179
Brake Force Display 82
Brake lamps
– Brake Force Display 82
– replacing bulbs 184
Brake pads 179
– breaking-in 106
Brake rotors 108
Brakes
– ABS Antilock Brake System 77
– brake fluid 179
– Brake Force Display 82
– brake pads 179
– breaking-in 106
– handbrake 52
– warning lamps 13
Brake system 106, 179
– brake fluid level 179
– brake pads 106, 179
– breaking-in 106
– disc brakes 108
– warning lamp 79, 179

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Braking
– CBC Cornering Brake Control 77
– DBC Dynamic Brake Control 77
– electronic brake-force distribution 77
– refer to Braking safely 107
Breakdown assistance 163
Breakdown services, refer to Roadside Assistance 190
Breaking-in the clutch 106
Breaking-in the differential 106
Break-in period 106
"Brightness" 73
Brightness of Control Display 73
Buttons on steering wheel 11

C

California Proposition 65 Warning 6
"Call" 155
Call
– accepting 154
– displaying accepted 156
– ending 155
– in absence 156
– starting 154
Calling
– from phone book 155
– from Top 8 list 156
– redialing 156
– refer to telephone Owner's Manual
"Calling sender" 158
Can holder, refer to Cup holders 99
Capacities 198
Car battery, refer to Vehicle battery 187
Car care, refer to Caring for your vehicle brochure
Car-care products, refer to Caring for your vehicle brochure
"Car data" 70
Care 181
– refer to Caring for your vehicle brochure
Cargo, securing 102, 109
Cargo loading 108
Caring for artificial leather, refer to Caring for your vehicle brochure
Caring for leather, refer to Caring for your vehicle brochure
Caring for light-alloy wheels, refer to Caring for your vehicle brochure
Caring for plastic, refer to Caring for your vehicle brochure
Caring for the carpet, refer to Caring for your vehicle brochure
Caring for the vehicle finish, refer to Caring for your vehicle brochure
Car jack
– jacking points 186
Car keys, refer to Key set 28
Car phone 153
– installation location, refer to Center armrest 98
– refer to Portable phone 152
– refer to separate Owner's Manual
Car radio, refer to Radio 138
Car vacuum cleaner connection, refer to Sockets 100
Car wash 108
– also refer to Caring for your vehicle brochure
Catalytic converter, refer to Hot exhaust system 106
"Categories" 143
CBC Cornering Brake Control 77
CBS Condition Based Service 180
"CD" 133, 145
CD changer 145
– controls 132
– fast forward/reverse 147
– installation location 147
– playing a track 147
– random order 147
– repeating a track 146
– selecting a CD 146
– selecting a track 146
– switching on/off 132
– tone control 133
– volume 133
CD player 145
– controls 132
– fast forward/reverse 147
– playing a track 147
– random order 147
– repeating a track 146
– selecting a track 146
– switching on/off 132
– tone control 133
– volume 133
Center armrest
– front 98
– rear 100
Center brake lamp 184
Center console 14
"Central locking" 29
Central locking system 29
– from inside vehicle 31
Changes, technical
– refer to For your own safety 6
– refer to Parts and accessories 6
Changing gear
– automatic transmission with Steptronic 55
Changing settings
– on Control Display 73
Changing the language on the Control Display 74
Changing the measurement units on the Control Display 73
Changing wheels 174, 185
CHECK button 69
Check Control 67

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

"Check Control messages" 69
Check Gas Cap 168
Checking the air pressure, refer to Tire inflation pressure 170
Child-restraint fixing system LATCH 49
Child restraints 47
Child restraint systems 47
Child-safety lock 50
Child seats 47
Chime, refer to Check Control 67
Chock 185
Chrome parts, care, refer to Caring for your vehicle brochure
Cigarette lighter 99
Cleaning, refer to Caring for your vehicle brochure
Cleaning the windshield, refer to Wiper system 57
"Climate" 44
Clock 65
– 12h/24h mode 74
– time setting 74
Closing
– from inside 31
– from outside 29
Clothes hooks 99
Cockpit 10
Cold start, refer to Starting engine 51
"Comfort", active backrest width adjustment 40
Comfort area, refer to All about the center console 14
Comfort seat 39
"Communication" 154
"Communication settings" 161
Compact Disc
– refer to CD changer 145
– refer to CD player 145
Compact wheel
– changing wheels 186
– inflation pressure 171
Computer 69
– clock, 12h/24h mode 74
– displays on Control Display 70
– hour signal 74
"Concert hall" 135
Condition Based Service CBS 180
"Confirmation" 30
Confirmation signals for locking and unlocking 30
Consumption, refer to Average consumption 70
Consumption indicator
– Energy Control 66
"Continue guidance to destination?" 125
Control Center 16
– adjusting brightness 73
– assistance window 20
– automatic climate control 92
– changing settings 19, 73
– changing the menu page 19
– confirming selection or entry 19
– controller 16
– displays, menus 16
– language selection 74
– lists 19
– menu item selection 19
– menu navigation 17
– operating elements 16
– selecting units of measurement and display format 73
– setting time and date 74
– start menu 17
– status information 20
– symbols 17
Control Display, refer to Control Center 16
Controller, refer to Control Center 16
Controls, refer to Cockpit 10
Convenience operation
– glass sunroof 30
– windows 30
Convenience start, refer to Starting engine 51
Coolant 178
– level 178
Cooling, maximum 91
Cornering Brake Control CBC 77
Country of destination for navigation 116
Courtesy lamps 89
Cradle for telephone or portable phone 98
Cruise control 58, 59
– active cruise control 59
Cruising range 70
Cup holders 99
Curb weight, refer to Weights 198
Current fuel consumption 66
"Current position" 125
Current position
– displaying 125
– entering 120
– storing 120
"Customer Relations" 164
Cylinders, refer to Engine data 196

D

Dashboard, refer to Cockpit 10
Data 196
– capacities 198
– dimensions 197
– engine 196
– technical data 196
– weights 198
"Date" 74
Date 65
– display format 75
– retrieval 65
– setting 74
"Date format" 75
Daytime driving lamps 87
DBC Dynamic Brake Control 77
– warning lamp 79
"Deactivated" 41
Deactivating front passenger airbags 47, 83

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Decommissioning the vehicle
– refer to Caring for your vehicle brochure
Defrosting windows 91
Defrosting windows and removing condensation 91
Defrosting windshield, refer to Defrosting windows 91
Defrost position, refer to Defrosting windows 91
"Delete address book" for navigation 122
"Delete all numbers" on the portable phone 157
"Delete data" for navigation 122
"Delete" for portable phone 157, 158
Destination address
– deleting 121
– entering 115
Destination for navigation
– destination list 119
– entry 115
– selecting from address book 121
– selecting using information 118
– storing 120
Destination guidance 124
– bypassing route sections 127
– canceling voice instructions 46
– changing specified route 122
– displaying routes 126
– distance and arrival 124
– interrupting 125
– starting 124
– terminating/continuing 125
– voice instructions 125
– volume of voice instructions 126
Destination list 119
Destinations recently driven to 119
"Dial" for portable phone 154
"Dial number" 154
"Diamond button" 46
Diamond button 46
Digital clock 65
Dimensions 197
Dipstick for engine oil 177
Directional indicators, refer to Turn signals 56
Direction announcements, refer to Voice instructions 125
Direction instructions, refer to Voice instructions 125
Directory, refer to Phone book 155
Directory for navigation, refer to Address book 120
Disc brakes 108
Displacement, refer to Engine data 196
Display, refer to Control Center 16
"Display off" 21
Displays, refer to Instrument cluster 12
"Display settings" 73
Displays on the windshield, refer to Head-Up Display 84
Disposal, vehicle battery 187
Distance, refer to Computer 70
Distance cruise control, refer to Active cruise control 59
"Distance to dest." 71
Distance to destination, refer to Computer 70
Distance warning, refer to PDC Park Distance Control 76
Divided rear seat back, refer to Folding down rear seat 101
Door entry lighting 89
Door keys 28
Door lock 31
Door locking, acknowledgment signals 30
"Door locks" 29
Doors
– manual operation 31
– remote control 29
DOT Quality Grades 173
Draft-free ventilation 93
Drinks holder, refer to Cup holders 99
Drive mode 54
"Driver's door only" 29
Driving lamps, refer to Parking lamps/low beams 87
Driving notes 106
Driving route, refer to Displaying route 126
Driving stability control system 77
Driving through water 107
Driving tips, refer to Driving notes 106
Dry air, refer to Cooling function 91
Drying the air, refer to Cooling function 91
DSC Dynamic Stability Control 78
– indicator lamp 13, 78
– malfunction 79
DTC Dynamic Traction Control 78
– activating 78
– indicator lamp 13, 78
DVD for navigation 114
Dynamic Brake Control DBC 77
Dynamic Driving Control 54
"Dynamic route" for navigation 123
Dynamic Stability Control DSC 78
– indicator lamp 13, 78, 79
Dynamic Traction Control DTC 78
– indicator lamp 13, 78

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

E

Easy entry/exit 45
– backrest width 40
Eject button, refer to Buttons on CD player 132
Electrical malfunction
– door lock 31
– driver's door 31
– fuel filler door 168
– glass sunroof 37
– glass sunroof, electric 37
– luggage compartment lid 33
Electric steering wheel adjustment 45
Electronic brake-force distribution 77
Emergency call 189
Emergency operation, refer to Manual operation
– door lock 31
– driver's door 31
– fuel filler door 168
– glass sunroof 37
– luggage compartment lid 33
Emergency release of luggage compartment lid from luggage compartment's interior 33
Emergency services, refer to Roadside Assistance 190
"Emission inspect." 67
"Enable services" 162
"End call" 155
Energy-conscious driving, refer to Energy Control 66
Energy Control 66
Engine
– breaking-in 106
– data 196
– speed 196
– starting 51
– starting difficulties 51
– switching off 52
Engine compartment 177
Engine coolant 178
Engine oil
– adding 178
– checking the oil level 177
– specified engine oils 178
Engine output, refer to Engine data 196
Engine speed 196
Engine starting, refer to Starting engine 51
"Enter address" 116
Entering destination 116
Entering the address 115
Entering the intersection 117
"Entertainment" 133
"Entertainment settings" 134
Entry map for destination 117
"Equalizer", refer to Tone control 135
"ESN" 142
ESP Electronic Stability Program, refer to DSC Dynamic Stability Control 78
Event Data Recorders 181
Exhaust system, refer to Hot exhaust system 106
Exterior mirrors 45
– automatic dimming feature 107
– automatic heating 45
Exterior rearview mirror
– passenger-side mirror tilt function 41

F

Fader, tone control 134
Failure messages, refer to Check Control 67
False alarm, refer to Avoiding unintentional alarms 34
Fastening safety belts, refer to Safety belts 42
– warning lamp 43
Fastest route for navigation 122
"Fast route" for navigation 122
First aid, refer to First-aid kit 189
First-aid kit 189
Flashlight 98
– refer to Rechargeable flashlight 98
Flash when locking/unlocking 30
Flat tire
– changing wheels 185
– compact wheel 186
– Flat Tire Monitor 80
– run-flat tires 80, 174
Flat Tire Monitor 79
– false alarms 80
– initializing system 80
– malfunctions 81
– snow chains 175
– system limits 80
– warning lamp 80
Flat tires, refer to Tire condition 173
"FM", reception range 133, 138
FM, waveband 138
Fog lamps 88
– indicator lamp 13, 88
Folding down rear seat 101
Folding rear seat back 101
Footbrake, refer to Braking safely 107
Footwell lamps 89
Forward, fast
– CD changer 147
– CD player 147
For your own safety 6
Front airbags 83
Front armrest, refer to Center armrest
– front 98
Front seat adjustment 38
"FTM" 80
Fuel 169
– capacity 198
– display 66
– high-quality brands 169
– quality 169
– specifications 169

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Fuel consumption display
– computer, average fuel consumption 70
Fuel display, refer to Fuel gage 66
Fuel filler door 168
– releasing in the event of electrical malfunction 168
Fuel gage 66
Fuses 187

G

Garage door opener, refer to Integrated universal remote control 96
Gasoline, refer to Required fuel 169
Gasoline display, refer to Fuel gage 66
Gear changes
– SMG Sequential manual transmission 54
Gear display
– automatic transmission with Steptronic 55
– SMG Sequential manual transmission 53
Gearshift lever
– automatic transmission with Steptronic 55
– manual transmission 53
– SMG Sequential manual transmission 53
General driving notes 106
Glass sunroof, electric 35
– auto-remote operation from outside 31
– opening and closing manually 37
– remote control 30
Glove compartment 97
– lighting 97
– rechargeable flashlight 98
GPS navigation, refer to Navigation system 114
Grills, refer to Ventilation 93
Grills of the automatic climate control 90
Gross vehicle weight, refer to Weights 198

H

Halogen lamps 183
Handbrake 52
– indicator lamp 13, 52
Hands-free system 153
– refer to Microphone 14
Hazard warning flashers 15
Head airbags 83
Headlamp control, automatic 87
Headlamp flasher 56
Headlamps 87
– care, refer to Caring for your vehicle brochure
– cleaning, refer to Wiper system 57
– replacing bulbs 183
Head Light, refer to Adaptive Head Light 88
"Headphone operation only" 137
"Headphones" 137
Head restraints 41
– front head restraints, active 42
Head-Up Display 84
Heated mirrors 45
Heated rear window 90
Heated seats 43
Heated steering wheel 46
Heating 90
– exterior mirrors 45
– interior 90
– rear window 90
– residual heat utilization 92
– seats 43
– steering wheel 46
Heating while stationary 92
Heating with engine switched off, refer to Residual heat utilization 92
Heavy cargo, refer to Securing cargo 109
Height, refer to Dimensions 197
Height adjustment
– seats 39
– steering wheel 45
High beams 88
– headlamp flasher 88
– indicator lamp 13
– replacing bulbs 183
High water, refer to Driving through water 107
Hills 108
Holder for cups 99
"Home address" 122
Hood 176
Horn 10
Hot exhaust system 106
"Hour memo" 74
"House number" for destination entry 117
Hydraulic brake assistant, refer to DBC Dynamic Brake Control 77
Hydroplaning 107

I

Ice warning 65
iDrive, refer to Control Center 16
Ignition key 28
Ignition key positions, refer to Ignition lock 51
Ignition lock 51
Independent ventilation 94
– activating the activation time 95
– preselecting activation times 94
– switching on and off directly 94

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Indicator/warning lamps 13
– ABS Antilock Brake System 79
– active steering 81
– airbags 84
– brake fluid 179
– brake pads 179
– brake system 13, 79
– DSC Dynamic Stability Control 13, 78
– DTC Dynamic Traction Control 13, 78
– Flat Tire Monitor 80
– front fog lamps 13
– overview 13
– safety belt warning 42
Individual air distribution 92
Individually assignable buttons on the steering wheel 46
Individual settings, refer to Key Memory 28
Inflation pressure, refer to Tire inflation pressure 170
Inflation pressure monitoring, refer to Flat Tire Monitor 79
Information
– on another location 118
– on current position 118
– on destination location 118
"Information" for navigation 119
"Information on destination" 119
Initializing, refer to Power loss 187
"Input map" 118
Installation location
– CD changer 147
– portable phone 98
Instructions for navigation system, refer to Voice instructions 125
Instrument cluster 12
Instrument illumination, refer to Instrument lighting 89
Instrument lighting 89
Instrument panel
– refer to Cockpit 10
– refer to Instrument cluster 12
Integrated universal remote control 96
"Interim time" 73
Interior lamps 89
– remote control 30
Interior motion sensor 34
– switching off 34
Interior rearview mirror 45
– automatic dimming feature 107
Interlock on automatic transmission 51
Intermittent mode of the wipers 57

J

Jacking points 186
Joystick, refer to Control Center 16
Jumpering, refer to Jump starting 190
Jump starting 190

K

Key Memory 28
"Keypad" 157
Keys 28
Kick-down
– automatic transmission with Steptronic 56
– SMG Sequential manual transmission 54
Knock control 169

L

Lamps, refer to Parking lamps/ low beams 87
Lamps and bulbs 182
"Languages" 74
– for navigation 126
Lashing down cargo, refer to Securing cargo 109
Lashing eyes, refer to Securing cargo 109
Last destinations, refer to Destination list 119
"Last seat pos." 41
LATCH child-restraint fixing system 49
LEDs light-emitting diodes 185
Length, refer to Dimensions 197
Letter symbol with portable phone 157
License plate lamp, replacing bulbs 184
"Light" 56, 87
Light-emitting diodes LEDs 185
Lighter 99
Lighter socket 100
Lighting
– instruments 89
– of the vehicle, refer to Lamps 87
Lights on warning 87
Light switch 87
"Limit" 72
Loading
– securing cargo 109
– stowing cargo 109
– vehicle 108
Location, navigation drive 114
"Lock after driving off" 32
Lock buttons in the doors, refer to Locking 32
Locking
– from inside 32
– from outside 30
– setting confirmation signals 30

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Locking and unlocking doors
– from inside 31
– from outside 29
– setting confirmation signals 30
"LOGIC7", refer to Tone control 135
Low beams 87
– automatic 87
– replacing bulbs 183
Lower back support, refer to Lumbar support 39
Lug bolts 186
– tightening torque, refer to After mounting 186
– wrench 185
Luggage compartment
– capacity 198
– opening/closing, refer to Luggage compartment lid 32
– opening from inside 32
– opening from outside 32
– opening separately 33
– opening with remote control 30
– socket 100
Luggage compartment lid 32
– emergency operation 33
– locking and unlocking from inside 31
– locking separately 33
– opening from inside 32
– opening from outside 32
– securing separately 33
– unlocking manually 33
Luggage rack, refer to Roof-mounted luggage rack 110
Lumbar support 39
LW, waveband 138

M

M+S tires, refer to Winter tires 175
Maintenance, refer to Service and Warranty Information Booklet for US models or Warranty and Service Guide Booklet for Canadian models 180
Maintenance system 180
Malfunction warnings, refer to Check Control 67
Manual air distribution 92
Manually controlled recirculated air 91
Manual mode
– automatic transmission with Steptronic 56
– SMG Sequential manual transmission 54
"Manual" on the radio 139
Manual operation
– door lock 31
– driver's door 31
– glass sunroof 37
Manual release
– fuel filler door 168
– luggage compartment lid 33
Manual transmission 53
Map
– changing scale 127
– destination entry 117
"Map, direction of travel" 127
"Map, facing north" 127
Map facing north 126
Master key with remote control 28
Maximum cooling 91
Maximum roof weight 198
Maximum speed
– for winter tires 175
– with compact wheel 187
Memory
– refer to Key Memory 28
– refer to Seat, mirror and steering wheel memory 40
Menus, refer to Control Center 16
Menu selection 19
Microfilter 94
Microphone
– for hands-free system 153
– for portable phone 14
– for voice command system 14
Mirrors 45
– automatic curb monitor 41
– dimming feature 107
– folding in and out 45
– heating 45
– memory, refer to Seat, mirror and steering wheel memory 40
"Missed calls" 156
Missed calls 156
Monitor, refer to Control Center 16
"Monitor display on" 77
"Monitor on / off" 46
Most recent portable phone numbers 156
Multi-function steering wheel, refer to Buttons on steering wheel 11
Multifunction switch
– refer to Turn signals/ headlamp flasher 56
– refer to Wiper/washer system 57
Music track, finding 147
"Mute on / off" 46
MW, waveband 138

N

Navigation destination
– home address 122
– manual entry 115
– selecting via map 117
Navigation drive, location 114
Navigation DVD 114

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Navigation system 114
– address book 120
– bypassing route sections 127
– destination entry 115
– destination guidance in assistance window 114
– destination list 119
– displaying current position 125
– entering a destination manually 115
– opening 115
– route display 126
– route list 127
– selecting destination using information 118
– selecting destination via map 117
– selecting route criteria 122
– starting destination guidance 124
– switching off, refer to Terminating/continuing destination guidance 125
– terminating/continuing destination guidance 125
– voice instructions 125
– volume adjustment 126
"Navigation voice instructions on" 126
Neck support, refer to Head restraints 41
"New address" for navigation 120
"New destination" 115, 117
New key 28
"New route" 127
New wheels and tires 174
"Next entertainment source" 46
"Normal", active backrest width adjustment 40
Nozzles, refer to Windshield washer nozzles 58
Nylon rope, refer to Towing and Tow-starting 191

O

OBD Socket 181
Octane ratings, refer to Fuel specifications 169
Odometer 65
Oil
– capacity 198
– consumption, refer to Engine oil, checking 177
– dipstick 177
– level 177
– refilling, refer to Engine oil, adding 178
– specified engine oils 178
Oil change intervals, refer to Service requirements 66
Old batteries, refer to Disposal 187
"On a new destination" for navigation 119
Onboard computer, refer to Control Center 16
"Onboard information" 70, 71
Onboard tool kit 182
"On destination" 119
"On location" 119
Opening and closing
– from inside 31
– from outside 29
– using remote control 29
– using the door lock 31
Operation by voice for portable phone 158
– adjusting volume 159
– canceling 158
– correcting phone number 159
– dialing phone number 159
– placing a call 159
– redialing 160
– voice commands 158
– voice phone book 159
"Options" for portable phone 158
Orientation menu, refer to Control Center, start menu 17
Output, refer to Engine data 196
Outside air, refer to AUC Automatic recirculated-air control 91
Outside temperature display 65
– changing unit of measurement 73
– in computer 73

P

Panic mode 30
Park Distance Control PDC 76
"Parked car operation" 94
Parking aid, refer to PDC Park Distance Control 76
Parking brake, refer to Handbrake 52
Parking lamps 87
– replacing bulbs 183
Parking lamps/low beams 87
– replacing bulbs 183
Parking vehicle 52
Parts and accessories 6
Passenger-side mirror tilt function 41
"Pathway lighting" 87
Pathway lighting 87
"PDC" 77
PDC Park Distance Control 76
Phone book 153
Phone numbers
– deleting from phone book 156
– dialing 154
– most recent numbers 156
– selecting in phone book 156
– Top 8 156
"Play" on the radio 143
Pollen, refer to Microfilter/activated charcoal filter 94

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Portable phone
– accepted calls 156
– adjusting volume 153
– calling 154
– ending call 155
– hands-free system 153
– installation location, refer to Center armrest 98
– missed calls 156
– operation using Control Center 153
– phone book 155
– redialing 156
– refer to separate Owner's Manual
– SMS 157
– Top 8 156
– touch tone dialing 157
Portable phone battery 152
Portable phone in the vehicle 107
Portable phones, use in the interior, refer to Mobile communications systems 107
Position
– displaying 125
– storing 120
Power failure 187
Power windows, refer to Windows 34
Preselecting activation times of the Independent ventilation 94
"Presets" on the radio 138, 143
Pressure, tires 170
Pressure monitoring of tires, refer to Flat Tire Monitor 79
Programmable buttons on the steering wheel 46
Protective function, refer to Anti-trapping mechanism
– glass sunroof, electric 36
– windows 35

R

Radio
– autostore 139
– controls 132
– sampling stations 139
– satellite radio 141
– selecting the frequency manually 139
– selecting the waveband 133, 138
– station search 139
– station selection 138
– station with the best reception 139
– storing stations 140
– switching on/off 132
– tone control 133
– volume 133
– Weather Band 141
Radio-control key, refer to Master key with remote control 28
Rain sensor 57
"Random", random play sequence 147
Reading lamps 89
Rear armrest, refer to Rear center armrest 100
Rear lamp, refer to Tail lamps 184
– replacing bulbs 184
"Rear not enabled" 137
Rear seat back, folding 101
"Rear seat entertainment via headphones" 136
"Rear seat entertainment via speakers" 136
Rear seats
– folding backrests 101
– head restraint adjustment 42
– heating 44
Rear ventilation 93
Rearview mirror 45
Rear window blind, refer to Roller sun blinds 97
Rear window defroster 90
Rear window safety switch 35
"Received calls" 156
Receiving level of portable phone, refer to Status information 20
Reception
– quality 141
– radio stations 141
– regional station 139
Recirculated-air mode
– air recirculation 91
– AUC Automatic recirculated-air control 91
Reclining seat, refer to Backrest 39
Recording times, refer to Stopwatch 72
"Redial" for portable phone 156
Refueling 168
Releasing hood 176
"Relock door if not opened" 32
Remaining distance
– refer to Computer 70
– refer to Cruising range 70
Remote control 28
– entertainment 136
– garage door opener 96
– luggage compartment lid 30
– malfunction 30
Removing condensation on the windows 91
"Repeat" in audio mode 146
Replacement fuses 187
Replacement key, refer to New key 28
Replacement of tires, refer to Changing wheels 185
Replacing bulbs, refer to Lamps and bulbs 182
Replacing tires 174
Reporting an accident, refer Initiating an emergency call 189
Reporting safety defects 7
Reserve warning, refer to Fuel gage 66
Reservoir for washer systems 58

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

"Reset" stopwatch 73
Residual heat mode 92
Restraint system for children 47
Restraint systems, refer to Safety belts 42
Retreaded tires 174
Reverse, fast
– CD changer 147
– CD player 147
Reverse gear
– automatic transmission with Steptronic 56
– manual transmission 53
– SMG Sequential manual transmission 54
Road map 126
"Roadside Assistance" 163
Roadside Assistance 190
Roadside parking lamps 88
– replacing bulbs 183
Roller sun blind, refer to Sun blinds 97
Roof-mounted luggage rack 110
Rope, refer to Towing and tow-starting 191
Rotary pushbutton, refer to Control Center 16
Route 122
– bypassing sections 127
– changing 122
– displaying 126
– displaying arrow view 126
– displaying map 126
– displaying town 127
– list 127
– selecting 122
– selecting criteria 122
"Route list" for navigation 127
Route map 126
"Route preference" 122
Route selection 122
RSC, refer to Run-flat tires 174
Run-flat System Components RSC, refer to Run-flat tires 174
Run-flat tires 174
– continuing driving with a damaged tire 80
– flat tire 80
– new wheels and tires 174
– tire inflation pressure 80, 170
– tire replacement 174, 175

S

Safety 6
Safety belts 42
– damage 43
– sitting safely 38
– warning lamp 43
Safety belt tensioners
– refer to Airbags 83
– refer to Safety belts 42
Safety systems
– ABS Antilock Brake System 77
– airbags 83
– DSC Dynamic Stability Control 78
– safety belts 42
Satellite radio 141
– enabling 142
– selecting channel 142
– storing channel 142
"SAT" for radio 133, 142
"Save current destination" 122
Scan
– CD changer 147
– CD player 147
– radio 139
"Scan", playing stations 139
"Scan", playing tracks 147
Screen, refer to Control Center 16
Screw thread for tow fitting 191
"Seat heater distribution" 44
Seats 38
– active backrest width adjustment 40
– adjusting the seats 38
– comfort seat 39
– easy entry/exit 40
– heating 43
– lumbar support 39
– memory, refer to Seat, mirror and steering wheel memory 40
– sitting safely 38
– Sports seat 39
– storing the setting 40
– thigh support 39
– ventilation, refer to Active seat ventilation 44
"Select as destination" 119
"Select current speed" 72
Selecting audio sources, refer to Operation using Control Center 133
Selecting distance for active cruise control 62
Selecting new scale for navigation 127
Selecting route 122
Selecting the frequency manually 139
Selection options with navigation system 122
Selector lever
– automatic transmission with Steptronic 55
– SMG Sequential manual transmission 53
Selector lever interlock, refer to Shiftlock
– automatic transmission with Steptronic 55
– SMG Sequential manual transmission 54
Selector lever positions
– automatic transmission with Steptronic 55
– manual transmission 53
– SMG Sequential manual transmission 53

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Sequential manual transmission SMG 53
"Service" 66, 162
Service, refer to Roadside Assistance 190
Service and Warranty Information Booklet for US models and Warranty and Service Guide Booklet for Canadian models 180
Service car, refer to Roadside Assistance 190
Service interval indicator, refer to Service requirements 66
"Service notification" 163
"Service Request" 164
"Service requirements" 66, 162
Service requirements 66
– also refer to CBS Condition Based Service 180
"Service Status" 162
"Set date" 74
"Set" in audio mode 133
"Set service date" 67
"Set time" 74
Settings, configuring, refer to Key Memory 28
Setting speed limit 72
Setting the time, refer to Preselecting switch-on times 94
"Set tire pressure" 80
Shifting gears
– automatic transmission with Steptronic 56
– SMG Sequential manual transmission 54
Shiftlock
– automatic transmission with Steptronic 55
– SMG Sequential manual transmission 54
Shift paddles 54
Short commands of voice command system 199
Shortest route for navigation 122
"Short route" for navigation 122
Shoulder support 39
"Show current position" 118
"Show destination position" 118
Shuffled, refer to Random
– CD changer 147
– CD player 147
Side airbags 83
Side marker lamps, replacing bulbs 184
Side turn signals, replacing bulbs 184
Side window blind, refer to Sun blinds 97
Sitting safely 38
– with airbags 38
– with safety belts 38
Ski bag 101
Ski sack, refer to Ski bag 101
Sliding/tilt sunroof, refer to Glass sunroof, electric 35
SMG Sequential manual transmission 53
– acceleration assistant 55
– breaking-in 106
– convenience start 52
– Dynamic Driving Control 54
– gear display 53
– kick-down 54
– shiftlock 54
– towing 192
– tow-starting 192
"SMS" 157
Snow chains 175
Socket for Onboard Diagnostics interface 181
Socket outlet
– cigarette lighter socket 100
Sockets 100
SOS, refer to Initiating an emergency call 189
Sound output for Entertainment on/off 133
Spare fuses 187
Spare key 28
Spare wheel
– refer to Changing wheels 185
– refer to Compact wheel 186
Special oils, refer to Specified engine oils 178
Specified engine oils 178
Speed
– with compact wheel 187
– with winter tires 175
Speed-dependent volume 134
Speed limit warning, refer to Speed limit 72
Speedometer 12
"Speed volume", refer to Tone control 134
"Sport", active backrest width adjustment 40
Sport program, refer to Dynamic Driving Control 54
Sports seat 39
Stability control, refer to Driving stability control systems 77
"Star button" 46
Star button 46
"Start destination guidance" 118
"Start" for stopwatch 73
"Start guidance" 117, 119, 121, 124
Starting, refer to Starting engine 51
Starting assistance, refer to Jump-starting 190
Starting difficulties
– jump starting 190
– refer to Special starting conditions 51
Start menu in Control Display 17
"Start service" 163
"State / Province" for destination entry 116
"State inspection" 67
Station, refer to Radio 138

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

"Status" 66
Status of this Owner's Manual at time of printing 5
Steering wheel
– adjustment 45
– buttons on steering wheel 11
– easy entry/exit 45
– heating 46
– memory 40
– programmable buttons 46
"Steering wheel buttons" 46
Steering with variable ratio, refer to Active steering 81
Steptronic, refer to Automatic transmission with Steptronic 55
"Stop" for stopwatch 73
"Stopwatch" 72
Stopwatch 72
Storage compartments 99
"Store current destination" 122
"Store current position" 122
"Store in address book" for navigation 120
"Store" on the radio 140, 143
Storing current position 120
Storing sitting position, refer to Seat, mirror and steering wheel memory 40
Storing tires 175
Straps, refer to Loading 109
"Street" for destination entry 117
Summer tires, refer to Wheels and tires 170
Sun blinds 97
SW, waveband 138
Switches, refer to Cockpit 10
Switching navigation voice instructions on/off 125
Switching off engine 52
Switching off the tilt alarm sensor 34
Switching on
– audio 132
– CD changer 132
– CD player 132
– radio 132
Switching on hour signal 74
Switching the cooling function on and off 91
Swiveling headlamps, refer to Adaptive Head Light 88
Symbols 4
– Control Display 20

T

Tachometer 65
Tail lamps 184
– replacing bulbs 184
Tank contents, refer to Capacities 198
Target cursor for navigation 118
Technical data 196
Telematik, refer to TeleService, BMW Assist 161
Telephone, refer to Portable phone 152
"Telephone list" 46
TeleService 161
– enabling 161
– services offered 162
Temperature display
– ice warning 65
– outside temperature 65
– setting the units 73
Tempomat, refer to Cruise control 58
"Terminate services" 164
"Text language" 74
"Theater" 135
The individual vehicle 5
Third brake lamp, refer to Center brake lamp 184
Tightening torque of the lug bolts, refer to After mounting 186
Tilt function, passenger-side mirror 41
"Time" 74
"Time 1" for independent ventilation 94
"Time 2" for independent ventilation 94
"Time format" 74
Timer, refer to Preselecting activation time 94
Tire inflation pressures 170
Tire pressure, loss 80
Tire pressure monitoring, refer to Flat Tire Monitor 79
Tire Quality Grading 173
Tire replacement
– new wheels and tires 174
Tires
– age 172
– air loss 80
– breaking-in 106
– changing 174
– condition 173
– damage 174
– flat tire, refer to Changing wheels 185
– inflation pressure 170
– new wheels and tires 174
– pressure monitoring 79
– replacing 185
– retreaded tires 174
– run-flat tires 174
– size 172
– tread 173
– wear indicators 173
– wheel/tire combination 174
– winter tires 175
"Tone" 134
Tone in audio mode
– adjusting 133
– middle setting 135
Tone on locking/unlocking 30
Tools, refer to Onboard tool kit 182
"Top 8" for portable phone 156
Torque
– engine 196
– lug bolts, refer to After mounting 186

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Touch tone dialing 157
Tow fitting 191
Towing 191
– tow fitting 191
"Town / City" for destination entry 116
Tow-starting 192
Tracks
– random play sequence 147
– sample scan 147
Track width, refer to Dimensions 197
Traction-assist feature, refer to DSC Dynamic Stability Control 78
Traction control, refer to DSC Dynamic Stability Control 78
Traffic congestion, refer to Bypassing route sections 127
Transmission
– automatic transmission with Steptronic 55
– manual transmission 53
– SMG Sequential manual transmission 53
Transporting children safely 47
Transport securing device, refer to Securing cargo 109
Tread depth, refer to Minimum tire tread 173
"Trip computer" 71
Trip computer 71
Trip-distance counter, refer to Trip odometer 65
"Triple turn signal activation" 57
Trip odometer 65
Trunk lid, refer to Luggage compartment lid 32
– emergency operation, refer to Manual operation 33
Turning circle, refer to Dimensions 197
Turn signals 56
– indicator lamp 10, 13
– replacing bulbs 183

U

Underbody protection, refer to Caring for your vehicle brochure
Uniform Tire Quality Grading/ UTQR 173
"Units" 73
Units
– average fuel consumption 73
– temperature 73
Universal garage-door opener, refer to Integrated universal remote control 96
Universal Remote Control 96
"Unlock button" 29
Unlocking
– from inside 32
– from outside 29
"Unlock rear menu" 137
"Update services" 164
"Use current location as address" 122
Using tow fitting for towing and tow-starting 191

V

Valve screw caps, refer to After mounting 186
Vehicle
– battery 187
– break-in period 106
– care 181
– care, refer to Caring for your vehicle brochure
– dimensions 197
– loading 108
– parking 52
– washing, refer to Caring for your vehicle brochure
– weights 198
Vehicle jack 185
Vehicle position, refer to Displaying current position 125
"Vehicle settings" 29
Ventilation 93
– draft-free 93
– in the rear 93
Ventilation while stationary 94
Vent outlets of the automatic climate control 90
Vents, refer to Ventilation 93
Voice command system 22
– short commands 199
Voice instructions for navigation system 125
– muting 46
– repeating 46, 126
– switching on/off 46, 125
– volume 126
Voice phone book 159
Volume 132
– audio sources 132
– of the luggage compartment 198
– portable phone 153
– setting speed-dependent 134
– voice instructions 126

W

Warning lamps, refer to Indicator/warning lamps 13
Warning messages, refer to Check Control 67
Warning triangle 189
Warranty and Service Guide Booklet for Canadian models 180
Washer fluid 58
– capacity of the reservoir 58
– content of the reservoir 58
Washer fluid reservoir 58
Water on roads, refer to Driving through water 107
Waveband 138
"WB" 133, 141
Wear indicators in tires, refer to Minimum tread depth 173
Weights 198
Wheel/tire combination, refer to New wheels and tires 174

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Wheelbase, refer to
Dimensions 197
Wheel replacement 174
Wheels and tires 170
Width, refer to
Dimensions 197
Windows 34
– auto-remote operation from
outside 31
– convenience operation 30
– safety switch 35
Windshield displays, refer to
Head-Up Display 84
Windshield washer nozzles 58
Windshield washer system
– refer to Wiper system 57
– windshield washer
nozzles 58
Windshield wipers, refer to
Wiper system 57
Winter tires 175
– speed limit selection 72
– storage 175
Wiper blade replacement 182
Wiper system 57
– rain sensor 57
– washer fluid 58
– windshield washer
nozzles 58
– wiper blade
replacement 182
"With highways" for
navigation 122
Word matching principle for
navigation 123
Working in the engine
compartment 176
Wrenches/screwdrivers, refer
to Onboard tool kit 182

X

Xenon lamps 183
– replacing bulbs 183

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Refueling

To ensure that you always have all the essential data on hand when refueling, we recommend that you fill in the following tables with the specifications and information that apply to your vehicle. Consult the index for individual specifications.

Fuel

Designation

Please enter your preferred fuel here.

Engine oil

Quality

The oil quantity between the middle of the two marks on the dipstick is approx. 1.6 US quarts/1.5 liters.

Tire inflation pressure

	Summer tires		Winter tires	
	Front	Rear	Front	Rear
Up to 4 persons				
5 persons or 4 plus luggage				

BMW recommends Castrol

More about BMW

bmwusa.com

The Ultimate
Driving Machine

01 41 0 158 518 ue

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG

Online Edition for Part-No. 01 41 0 158 518 - © 09/04 BMW AG