Owner's Manual
for Vehicle

The Ultimate
Driving Machine

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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 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 Group

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US English VIII/09
Printed on environmentally friendly paper,
bleached without chlorine, suitable for recycling.

Contents

The fastest way to find information on a particular topic or item is by using the index, refer to page 180.

Notes

Using this Owner's Manual

We have tried to make all the information in this Owner's Manual easy to find. 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.

Information on BMW, e.g. on technical aspects, can also be found 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 accessories, as well as equipment and functions not yet available at the time of printing.

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.

The individual vehicle

When you ordered your BMW, you chose various items of equipment. 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 in exceptional cases that features described in this Owner's Manual could differ from those on your vehicle.

For your own safety

Maintenance and repair

Advanced technology, e.g. the use of modern materials and powerful electronics, requires specially adapted maintenance and repair methods. You should therefore have the corresponding work on your vehicle performed only by your BMW center or at 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.◀

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 Original 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.

Original 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 accessories not approved by BMW, such as alarms, radios, amplifiers, radar detectors, wheels, suspension components, brake dust shields, telephones, including operation of any mobile phone from within the vehicle without using an externally mounted antenna, or transceiver equipment, for instance, CBs, walkie-talkies, ham radio 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. See 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.◀

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. 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.◀

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.

Your vehicle has been specifically adapted and designed to meet the particular operating conditions and homologation requirements in your country and continental region in order to deliver the full driving pleasure while the vehicle is operated under those conditions. If you wish to operate your vehicle in another country or region, you may be required to adapt your vehicle to meet different prevailing operating conditions and homologation requirements. You should also be aware of any applicable warranty limitations or exclusions for such country or region. In such case, please contact Customer Relations for further information.

Reporting safety defects

For US customers

The following only applies 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 1-800-831-1117.

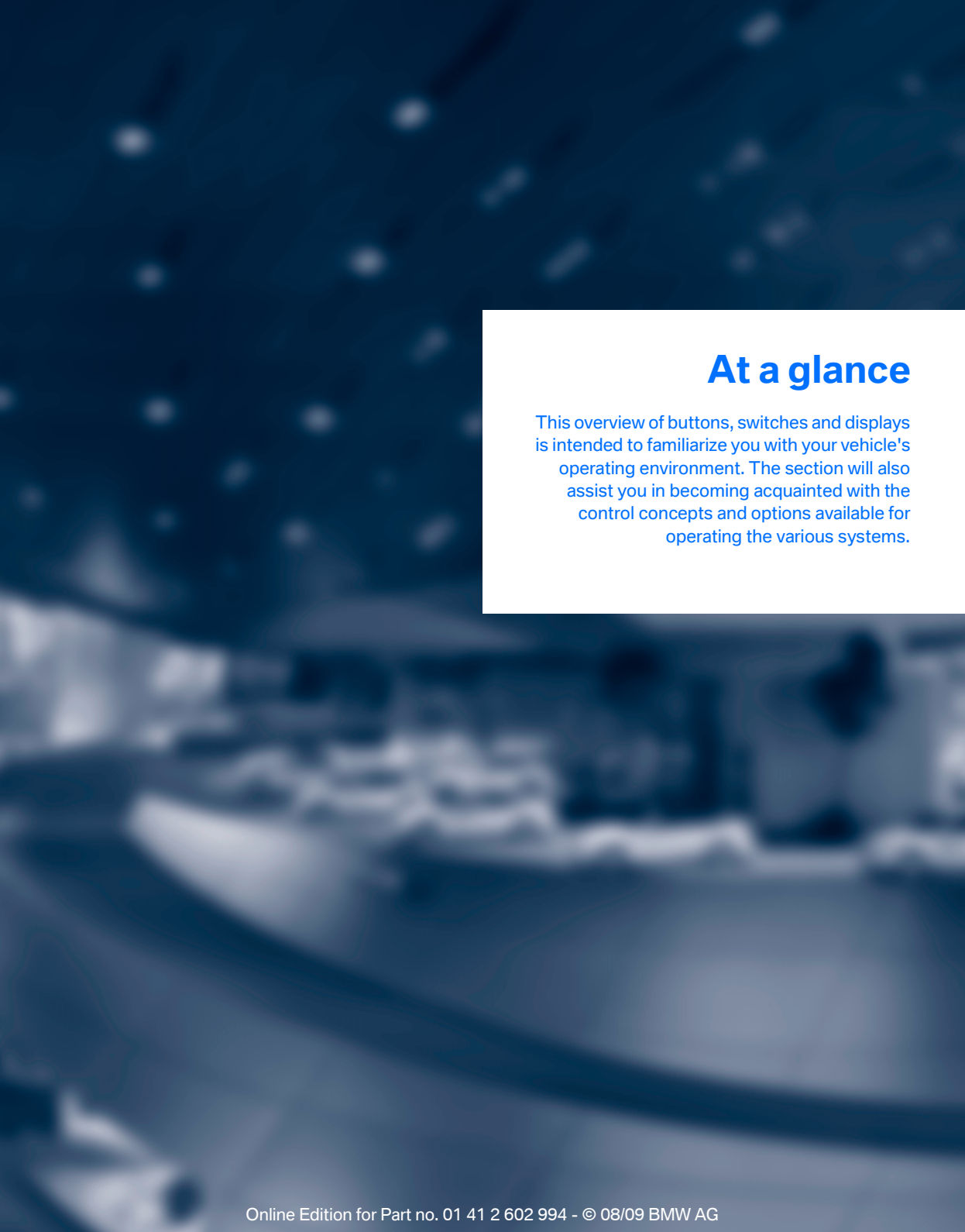
If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your center, or BMW of North America, LLC.

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

For Canadian customers

Canadian customers who wish to report a safety-related defect to Transport Canada, Defect Investigations and Recalls, may call 1-800-333-0510 toll-free from anywhere in Canada or 1-613-993-9851 from the Ottawa region and from other countries, or contact Transport Canada by mail at: Transport Canada, ASFAD, Place de Ville, Tower C, 330 Sparks Street, Ottawa, ON, K1A 0N5.

You can also obtain other information about motor vehicle safety from http://www.tc.gc.ca

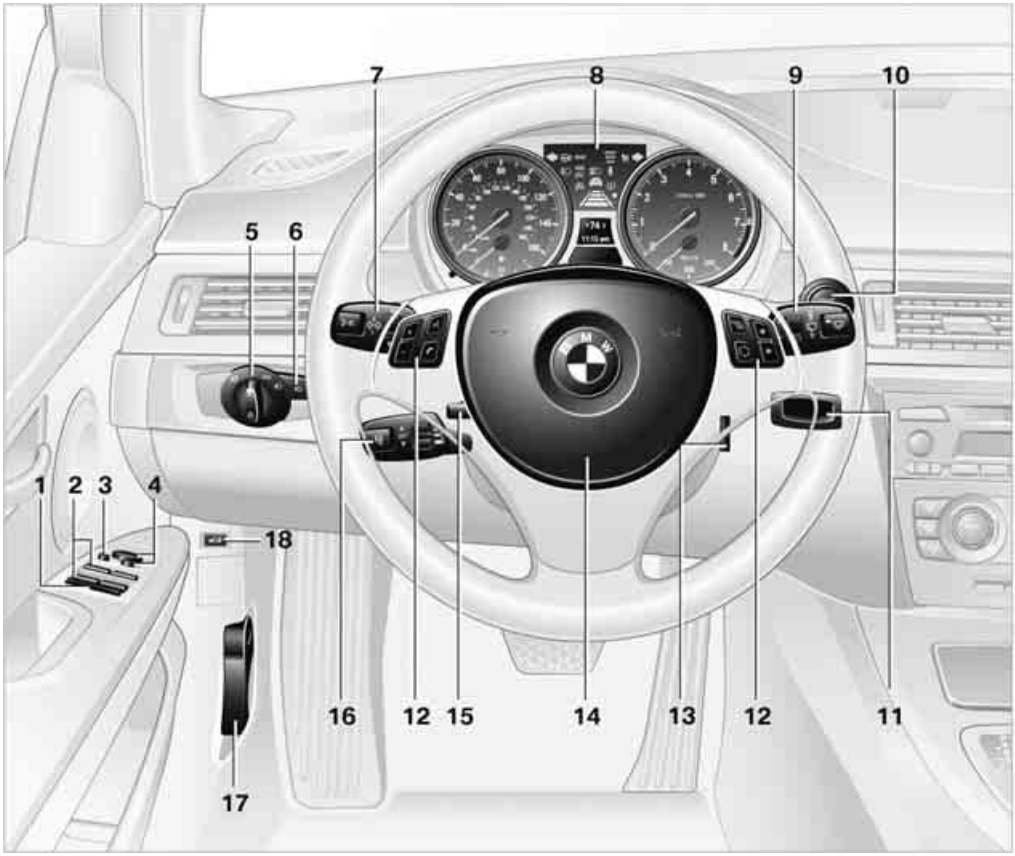


At a glance

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.

Cockpit

Around the steering wheel: controls and displays



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Indicator and warning lamps

The concept

Indicator and warning lamps can light up in a variety of combinations and colors.

Several of the lamps are checked for proper functioning and light up temporarily when the engine is started or the ignition is switched on.

What to do in case of a malfunction

A list of all indicator and warning lamps, as well as notes on possible causes of malfunctions and on how to respond, can be found starting on page 160.

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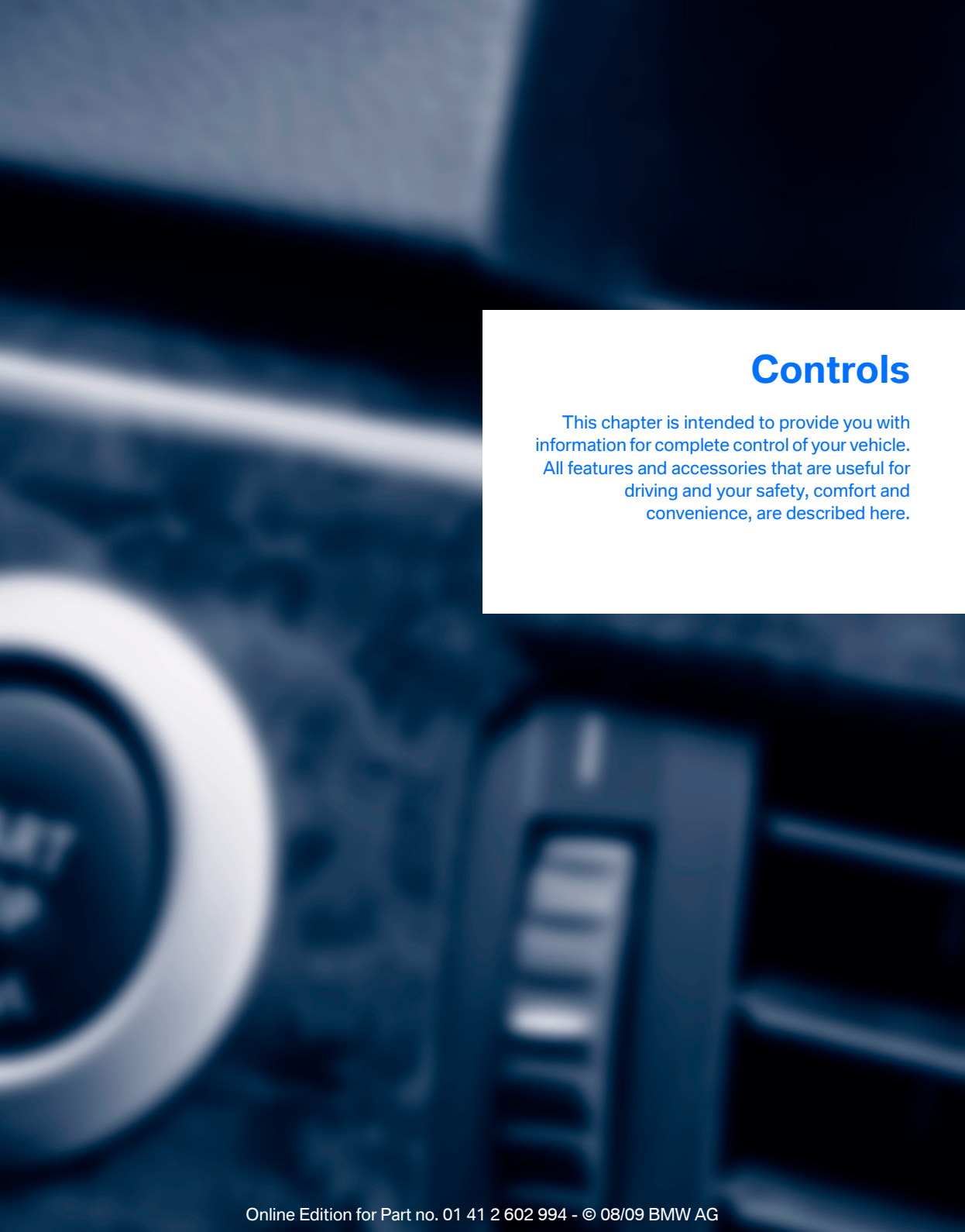

Controls

This chapter is intended to provide you with information for complete control of your vehicle. All features and accessories that are useful for driving and your safety, comfort and convenience, are described here.

Opening and closing

Remote control

Each remote control contains a rechargeable battery that is automatically recharged when it is in the ignition lock while the car is being driven. Use each remote control at least twice a year for longer road trips in order to maintain the batteries' charge status. In cars with Comfort Access*, the remote control contains a replaceable battery, refer to page 28.

The settings called up and implemented when the car is unlocked depend on which remote control is used to unlock the car, refer to Personal Profile, next column.

In addition, information about service requirements is stored in the remote control, refer to Service data in the remote control, page 141.

Integrated key

Press button **1** to release the key.

The integrated key fits the following locks:

- Glove compartment, refer to page 94
- Driver's door, refer to page 21

New remote controls

Your BMW center can supply new remote controls with integrated keys as additional units or as replacements in the event of loss.

Personal Profile

The concept

You can set many of your BMW's functions to suit your personal needs and preferences. Without any action on your part, Personal Profile ensures that most of these settings are stored for the remote control currently in use. When you unlock the car, the remote control used for the purpose is recognized and the settings stored for it are called up and implemented.

This means that your personal settings will be activated for you, even if in the meantime your car was used by someone else with another remote control and the corresponding settings. The individual settings are stored for a maximum of four remote controls. They are stored for two remote controls if Comfort Access* is in use.

Personal Profile settings

For more information on specific settings, refer to the specified pages.

- Response of the central locking system when the car is unlocked, refer to page 19
- Automatic locking of the vehicle, refer to page 22
- Automatic call-up* of the driver's seat position, refer to page 37
- Triple turn signal activation, refer to page 51

- Settings for the display in the instrument cluster:
  - 12h/24h format of the clock, refer to page 64
  - Date format, refer to page 64
  - Units of measure, refer to page 64
- Light settings:
  - Pathway lighting, refer to page 79
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- Automatic climate control*: AUTO program, cooling function and automatic recirculated-air control activated/deactivated, temperature, air volume and distribution, refer to page 87 ff
- Entertainment:
  - Speed-dependent volume control, refer to separate Owner's Manual

Central locking system

The concept

The central locking system functions when the driver's door is closed.

The system simultaneously engages and releases the locks on the following:

- Doors
- Trunk lid/tailgate
- Fuel filler flap

Operating from outside

- Via the remote control
- Via the door lock*
- In cars with Comfort Access*, via the handles on the driver's and front passenger doors

In addition, if the remote control is used, the interior lamps and the door's courtesy lamps* are also switched on or off. The alarm system* is also armed or disarmed.
For further details of the alarm system, refer to page 25.

Operating from inside

By means of the button for central locking, refer to page 22.

In the event of a sufficiently severe accident, the central locking system unlocks automatically. In addition, the hazard warning flashers and interior lamps come on.

Opening and closing: Using the remote control

Persons or animals in a parked vehicle could lock the doors from the inside. You should therefore take the remote control with you when you leave the vehicle so that the latter can be opened from outside.◀

Unlocking

Press the button.
The interior lamps, the courtesy lamps* and the welcome lamps come on.

Setting unlocking characteristics

You can set whether only the driver's door or the entire vehicle is to be unlocked when the button is pressed for the first time.

For operating principle, refer to page 64.

1. Switch on the ignition, refer to page 46.
2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

3. Press button **2**.

4. Lightly push button **1** in the turn indicator lever down repeatedly until the symbol appears in the display.

5. Press button **2**.
6. Use button **1** to select:
   - ▷ 
     Press the button once to unlock only the driver's door and the fuel filler flap. Press the button twice to unlock the entire vehicle.
   - ▷ 
     Press the button once to unlock the entire vehicle.
7. Press button **2**.
   The setting is stored for the remote control currently in use.

Convenient opening

Hold the button down.
The windows and the glass roof*/panorama glass roof* are opened.

Locking

Press the LOCK button.

Switching on interior lamps

While the car is locked:
Press the LOCK button.
You can also use this function to locate your vehicle in parking garages etc.

Sedan: Unlocking the trunk lid

Press the button for approx. 1 second.

The trunk lid opens a short distance, regardless of whether it was locked or unlocked.

The trunk lid swings back and up when opened. Ensure that there is sufficient clearance. To avoid locking yourself out by accident, do not place the remote control in the cargo area. A previously locked trunk lid is locked again after closing.
Before and after each trip, check that the trunk lid has not been inadvertently unlocked.◀

Sports Wagon: Unlocking the tailgate

Press the button for approx. 1 second.

The tailgate opens a short distance, regardless of whether it was locked or unlocked.

The tailgate swings back and up when opened. Ensure that there is sufficient clearance. To avoid locking yourself out by accident, do not place the remote control in the cargo area. A previously locked tailgate is locked again after closing.
Before and after each trip, check that the tailgate has not been inadvertently unlocked.◀

Confirmation signals

You can activate or deactivate the confirmation signals.

For operating principle, refer to page 64.

1. Switch on the ignition, refer to page 46.
2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

3. Press button **2**.

4. Lightly push button **1** in the turn indicator lever down repeatedly until the desired symbol appears in the display.

- Confirmation signal during unlocking
- Confirmation signal during locking

5. Press button **2**.
6. Use button **1** to select:
   - The hazard warning flashers light up during unlocking/locking.
   - An acoustic signal sounds during unlocking/locking.
   - The hazard warning flashers light up and an acoustic signal* sounds during unlocking/locking.
   - off
     The function is deactivated.
7. Press button **2**.
   The setting is stored.

Malfunctions

The remote control may malfunction due to local radio waves. If this occurs, unlock and lock the car at the door lock with the integrated key.

In vehicles without an alarm system* or Comfort Access*, only the driver's door can be unlocked and locked using the integrated key in the door lock.

If the car can no longer be locked with a remote control, the battery in the remote control is discharged. Use the remote control on an extended trip to recharge the battery, refer to page 18. The remote control for Comfort Access* contains a battery that may have to be changed, refer to page 28.

For US owners only

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

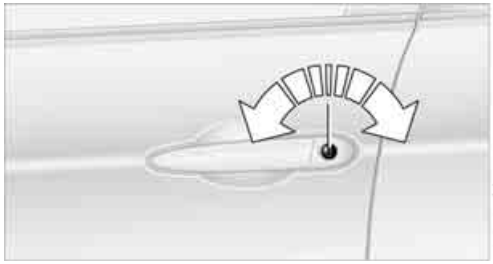
FCC ID:
LX8766S
LX8766E
LX8CAS

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.◀

Opening and closing: Using the door lock



You can set the way in which the car is unlocked, refer to page 19.

In vehicles without an alarm system* or Comfort Access*, only the driver's door can be locked via the door lock.◀

To lock all doors, the fuel filler flap and the trunk lid at once:

1. With the doors closed, lock the vehicle using the button for the central locking system in the interior, refer to page 22.
2. Unlock and open the driver's or front passenger door, refer to page 23.
3. Lock the vehicle.
   - ▷ Lock the driver's door using the integrated key in the door lock, or
   - ▷ press down the lock button of the front passenger door and close the door from the outside.

Convenient operation

If the vehicle is equipped with an alarm system* or Comfort Access*, you can also operate the windows and the glass roof*/panorama glass roof* via the door lock.

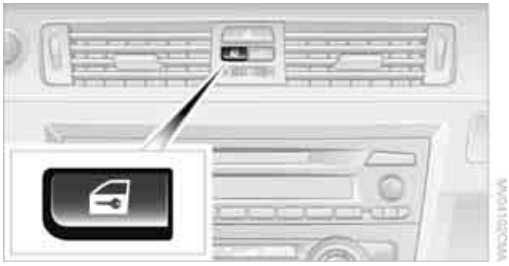
Hold the key in the position for unlocking or locking.

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

Manual operation

In the event of an electrical malfunction, you can lock and unlock the driver's door by turning the integrated key to the corresponding limit positions in the door lock.

Opening and closing: From inside



This button serves to unlock or lock doors and the trunk lid/tailgate, but does not activate the anti-theft system. The fuel filler flap remains unlocked.

Automatic locking

You can also set the situations in which the car locks:

For operating principle, refer to page 64.

1. Switch on the ignition, refer to page 46.
2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

3. Press button **2**.
4. Lightly push button **1** in the turn indicator lever down repeatedly until the symbol appears in the display.

5. Press button **2**.
6. Use button **1** to select:
   - ▷ on
     The central locking system automatically locks the vehicle after some time if no door has been opened.
   - ▷ → on
     The central locking system automatically locks the vehicle as soon as you drive off.
   - ▷ →
     The central locking system automatically locks the vehicle after some time if

no door has been opened, or as soon as you drive off.

▷ **off**
The central locking system remains unlocked.

7. Press button **2**.
The setting is stored for the remote control currently in use.

Unlocking and opening doors

▷ Either unlock the doors together using 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 safety lock button of a door. To prevent you from being locked out, the open driver's door cannot be locked using the lock button.

Persons or animals in a parked vehicle could lock the doors from the inside. You should therefore take the remote control with you when you leave the vehicle so that the latter can be opened from outside.◀

Trunk lid/tailgate

In order to avoid damage, make sure there is sufficient clearance before opening the trunk lid/tailgate.◀

Opening from inside

Press the button: the trunk lid/tailgate opens unless it has been locked.

Opening from outside

Sedan

Press the button, see arrow, or the button on the remote control for a longer period. The trunk lid will open slightly. It can now be swung upwards.

In the event of a malfunction, please contact your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.◀

Sports Wagon

Press the button, see arrow, or the button on the remote control for a longer period. The tail-

gate will open slightly. It can now be swung upwards.

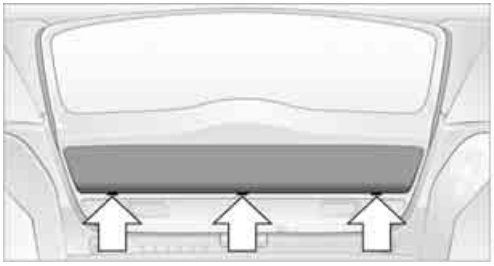
When the button on the roller cover is pressed, refer to page 99, the roller cover is raised. Before closing the tailgate, press the roller cover downward until it engages.◀

Opening manually

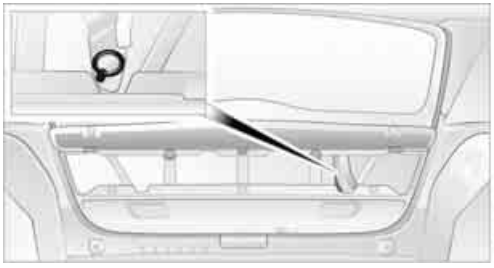
Sports Wagon

In the event of an electrical malfunction:

1. From the cargo area, swing the cover on the tailgate upward.



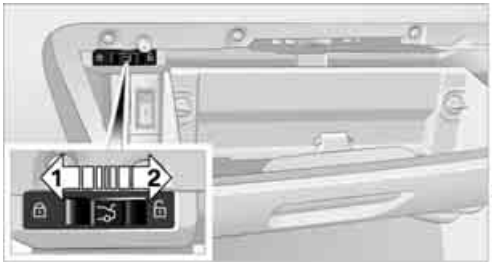
2. Pull the ring upward. The tailgate is unlocked.



3. Open the tailgate and close the cover again.

The tailgate is locked as soon as it is pressed shut.

Locking or unlocking separately



The switch is located in the glove compartment.

1 Locking the trunk lid

2 Unlocking the trunk lid

Locking separately

Push the switch in the direction of arrow **1**. The trunk lid is locked and cannot be unlocked using the central locking system.
If you give the remote control without the integrated key to someone else while the glove compartment is locked, the trunk lid cannot be opened. This is an advantage when valet parking, for example. Locking the glove compartment, refer to page 95.

Unlocking separately

Push the switch in the direction of arrow **2**.

Emergency release

Pull the lever in the cargo area. The trunk lid is unlocked.

Closing

The handle recesses on the interior trim of the trunk lid/tailgate make it easier to pull down.

Make sure that the closing path of the trunk lid/tailgate is clear; otherwise, injuries may result.◀

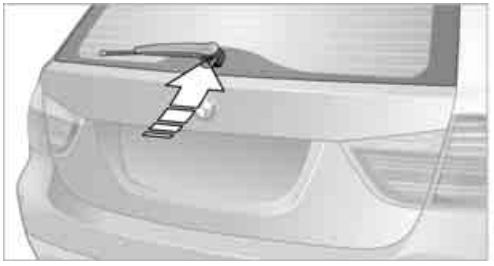
Sedan

Sports Wagon

Sports Wagon: opening and closing the rear window

Small items can be loaded and unloaded quickly when the rear window is opened separately.

When the button on the roller cover is pressed, refer to page 99, the roller cover is raised. Before closing the rear window, press the roller cover downward until it engages.◀



Press the button: the rear window opens slightly. It can now be swung upwards.

Press the window shut to close it.

Make sure that the corners of any pointed or sharp-edged cargo are padded if they could bump against the rear window while the vehicle is in motion; otherwise, the heating elements of the rear window could be damaged.◀

Alarm system*

The concept

The vehicle alarm system responds:

- When a door, the hood or the trunk lid/tailgate is opened
- To movements inside the vehicle: Interior motion sensor, refer to page 26
- When the car's inclination changes, for instance if an attempt is made to jack it up and steal the wheels or to raise it prior to towing away
- When there has been an interruption of power supply from the battery

The alarm system signals unauthorized entry attempts for a short time by means of:

- An acoustic alarm
- Switching on the hazard warning flashers
- Flashing the high beams

Arming and disarming

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.

You can open the trunk lid/tailgate even when the alarm system is armed, by pressing the button on the remote control, refer to page 20. The lid is locked and monitored again as soon as you close it.

Panic mode*

You can trigger the alarm system if you find yourself in a dangerous situation:

Press the button for at least three seconds.

To switch off the alarm: press any button.

Switching off an alarm

- Unlock the car with the remote control, refer to page 19.
- Insert the remote control all the way into the ignition lock.

Indicator lamp displays

- The indicator lamp under the inside rear-view mirror flashes continuously: the system is armed.
- The indicator lamp flashes after locking: doors, hood, trunk lid/tailgate or rear window 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. The interior motion sensor and the tilt alarm sensor are not activated.
- The indicator lamp goes out after unlocking: your vehicle has not been disturbed while you were away.
- If the indicator lamp flashes after unlocking until the remote control is inserted in the ignition, but for no longer than approx. 5 minutes: your vehicle has been disturbed while you were away.

Tilt alarm sensor

The tilt of the vehicle is monitored. The alarm system reacts, e.g. to attempts to steal a wheel or tow the vehicle.

Interior motion sensor

In order for the interior motion sensor to function properly, the windows and glass roof 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 duplex garages
- During transport on car-carrying trains, boats/ships or on a trailer
- 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 again as soon as the vehicle is locked.

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.

Comfort Access*

Comfort Access enables you to enter your vehicle without needing to hold the remote control in your hand. All you need to do is wear the remote control close to your body, e.g. in your jacket pocket. The vehicle detects the corresponding remote control within the immediate vicinity or in the passenger compartment.

Comfort Access supports the following functions:

- Unlocking/locking the vehicle
- Unlocking the trunk lid/tailgate separately
- Engine starting
- Convenient closing

Functional requirement

- The vehicle or the trunk lid/tailgate can only be locked when the vehicle detects that the remote control currently in use is outside of the vehicle.
- The vehicle cannot be locked or unlocked again until after approx. 2 seconds.

▷ The engine can only be started when the vehicle detects that the remote control currently in use is inside the vehicle.

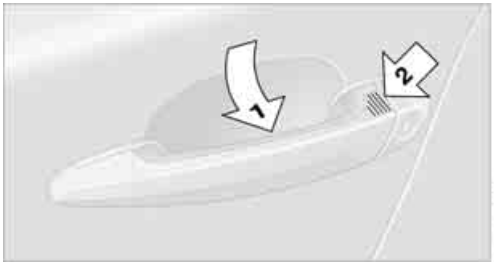
Comparison to the standard remote control

In general, there is no difference between using Comfort Access or pressing the buttons on the remote control to carry out the functions mentioned above. You should therefore first familiarize yourself with the instructions on opening and closing starting on page 18.

Special features regarding the use of Comfort Access are described below.

▷ If you notice a brief delay while opening or closing windows or the glass roof/panorama glass roof, the system is checking whether a remote control is inside the vehicle. Please repeat the opening or closing procedure, if necessary.◀

Unlocking



Grasp the handle on the driver's or front passenger door completely, arrow **1**. This corresponds to pressing the button.

Locking

Touch the surface, arrow **2**, with your finger for approx. 1 second. This corresponds to pressing the LOCK button.

▷ To preserve the battery, please make sure that the ignition and all electrical consumers are switched off before locking the vehicle.◀

Convenient closing

For Convenient closing, keep your finger on the surface, arrow **2**.

Unlocking the trunk lid/tailgate separately

Press the button on the outside of the trunk lid/tailgate. This corresponds to pressing the button.

▷ If the vehicle detects that a remote control has been accidentally left inside the locked vehicle's cargo area after the trunk lid/tailgate or rear window is closed, the lid will reopen. The hazard warning flashers flash and an acoustic signal* sounds.◀

Switching on radio readiness

Radio readiness is switched on by pressing the start/stop button, refer to page 46.

▷ Do not depress the brake or the clutch; otherwise, the engine will start.◀

Starting the engine

You can start the engine or switch on the ignition when a remote control is inside the vehicle. It is not necessary to insert a remote control into the ignition lock, refer to page 46.

Switching off the engine in cars with automatic transmission

The engine can only be switched off when the selector lever is in position P, refer to page 47. To switch the engine off when the selector lever is in position N, the remote control must be in the ignition lock.

Malfunction

Comfort Access may malfunction due to local radio waves. If this happens, open or close the vehicle via the buttons on the remote control or using the integrated key. To start the engine afterward, insert the remote control into the ignition lock.

Warning lamps

The warning lamp in the instrument cluster lights up when you attempt to start the engine: the engine cannot be started. The remote control is not inside the vehicle or is malfunctioning.

Take the remote control with you inside the vehicle or have it checked. If necessary, insert another remote control into the ignition lock.

The warning lamp in the instrument cluster lights up while the engine is running: the remote control is no longer inside the vehicle. After the engine is switched off, the engine can only be restarted within approx. 10 seconds.

The indicator lamp in the instrument cluster comes on: replace the battery in the remote control.

Replacing the battery

The remote control for Comfort Access contains a battery that will need to be replaced from time to time.

1. Take the integrated key out of the remote control, refer to page 18.

2. Remove the cover.
3. Insert the new battery with the plus side facing up.
4. Press the cover on to close.

Take the old battery to a battery collection point or to your BMW center.◀

Windows

To prevent injuries, watch the windows while closing them.

Take the remote control with you when you leave the car; otherwise, children could operate the electric windows and possibly injure themselves.◀

Opening, closing

- ▷ Press the switch to the resistance point: The window opens as long as you press the switch.
- ▷ Press the switch beyond the resistance point: The window opens automatically. Press the switch again to stop the opening movement.

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

There are separate switches in the rear seat armrests.

After switching off the ignition

When the remote control is removed or the ignition is switched off, you can still operate the windows for approx. 1 minute as long as no door is opened.

Convenient operation

For information on Convenient operation via the remote control or the door lock, refer to page 19 or 22. For information on Convenient closing with Comfort Access, refer to Locking on page 20.

Pinch protection system

If the closing force exceeds a specific value as a window closes, the closing action is interrupted and the window reopens slightly.

Despite the pinch protection system check and clear the window's travel path prior to closing it; otherwise, the safety system might fail to detect certain kinds of obstructions, such as thin objects, and the window would continue closing.

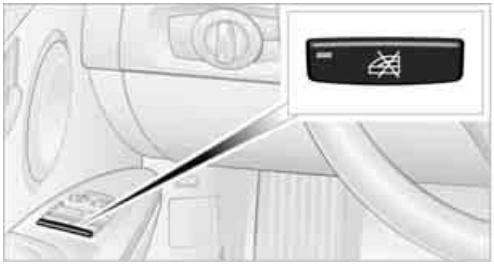
Do not install any accessories that might interfere with window movement. Otherwise, the pinch protection system could be impaired.◀

Closing without pinch protection

If there is an external danger, or if ice on the windows, etc., prevents you from closing the windows normally, proceed as follows:

1. Pull the switch past the resistance point and hold it there. Pinch protection is limited and the window reopens slightly if the closing force exceeds a certain value.
2. Pull the switch again past the resistance point within approx. 4 seconds and hold it there. The window closes without pinch protection.

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. When the safety function is switched on, the LED comes on.

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

Sedan: glass roof*, electric

To prevent injuries, watch the glass roof while closing it.

Take the remote control with you when you leave the car; otherwise, children could operate the roof and possibly injure themselves.◀

Raising

Press the switch.

- ▷ The closed glass roof is raised and the sliding visor opens slightly.
- ▷ The open glass roof automatically travels into the raised position. The sliding visor remains completely open.

Opening, closing

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

You can close the glass roof in a similar manner by pressing the switch forwards. The sliding visor remains open and can be closed by hand.

For information on Convenient operation via the remote control or door lock, refer to page 19 or 22.

After switching off the ignition

When the remote control is removed or the ignition is switched off, you can still operate the roof

for approx. 1 minute as long as no door has been opened.

Pinch protection system

If the glass roof encounters an obstruction during closing from approximately the middle of the opening in the roof, or during closing from the raised position, the closing movement is interrupted and the glass roof is opened again slightly.

Despite the pinch protection system check and clear the roof's travel path prior to closing it; otherwise, the safety system might fail to detect certain kinds of obstructions, such as very thin objects, and the roof would continue closing.◀

Closing without pinch protection

If there is an external danger, press the switch forward past the resistance point. The roof closes without pinch protection.

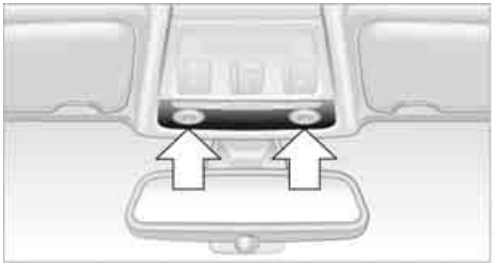
Following interruptions in electrical power supply

After a power failure, there is a possibility that the glass roof can only be raised. The system must be initialized. BMW recommends having this work done by your BMW center.

Closing manually*

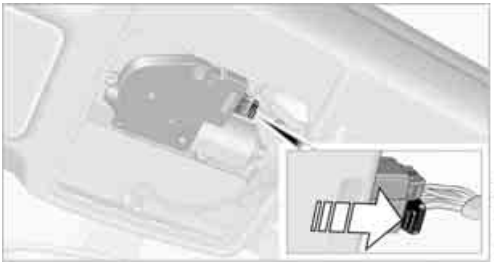
In the event of an electrical malfunction, you can move the glass roof manually:

1. Unclip the front of the cover of the interior lamps using the screwdriver from the onboard vehicle tool kit, refer to page 147.

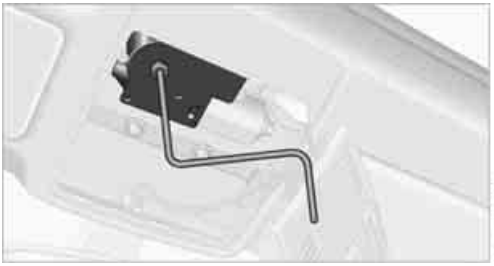


2. Insert the screwdriver into the openings on each side to press the clips.

3. Remove the control unit.
4. Unplug the motor. Considerably less effort will be required for manual operation.



5. Insert the Allen wrench* supplied with the onboard vehicle tool kit, refer to page 147, into the opening provided. Move the glass roof in the desired direction.



6. Reinstall the control unit and reattach the lamp cover.

Sports Wagon: Panorama glass roof*

To prevent injuries, exercise care when closing the panorama glass roof and keep

it in your field of vision until it is shut.
Take the remote control with you when you leave the car; otherwise, children could operate the roof and possibly injure themselves.◀

Raising

Press the switch.
The closed roof is raised and the sliding visor opens slightly.

Do not close the sliding visor forcibly with the roof in the raised position, as this would damage the mechanism.◀

Opening, closing

Sliding visor

The sliding visor can be opened or closed separately when the roof is in the closed or raised position.

- Press the switch backwards to the resistance point.
  The sliding visor opens as long as you keep the switch in this position.
- Tap the switch backwards past the resistance point.
  The sliding visor opens automatically. Tapping the switch again stops the operation.

You can close the sliding visor in a similar manner by pressing the switch forwards.

Panorama glass roof

When the sliding visor is open, proceed as described under Sliding visor.

For information on Convenient operation via the remote control or door lock, refer to page 20 or 22.

Opening and closing the roof and sliding visor at the same time

Tap the switch twice in quick succession beyond the resistance point.
Tapping the switch again stops the operation.

Convenience functions

- With the roof open, press the switch twice:
  The roof is raised.
- With the roof open, tap the switch twice in the direction for opening:
  The roof is opened fully.

Comfort position

In the comfort position, the roof is not completely open, thus reducing wind noise in the passenger compartment.

Each time the panorama glass roof is opened or closed completely, it stops in the comfort position. If desired, continue the movement by pressing the switch.

After switching off the ignition

When the remote control is removed or the ignition is switched off, you can still operate the roof for approx. 1 minute as long as no door has been opened.

Pinch protection system

If the panorama glass roof or the sliding visor encounters an obstruction while closing from a position about two-thirds closed, or during closing from the raised position, the closing movement is interrupted and the panorama glass roof and the sliding visor are opened again slightly.

Despite the pinch protection system check and clear the roof's travel path prior to closing it; otherwise, the safety system might fail to detect certain kinds of obstructions, such as very thin objects, and the roof would continue closing.◀

Closing without pinch protection

If there is an external danger, press the switch forward past the resistance point and hold it there. The roof closes without pinch protection.

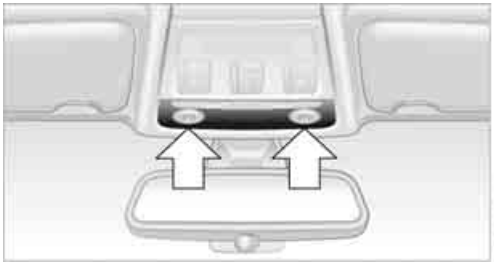
Following interruptions in electrical power supply

After a power failure, there is a possibility that the panorama glass roof can only be raised. The system must be initialized. BMW recommends having this work done by your BMW center.

Closing manually*

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

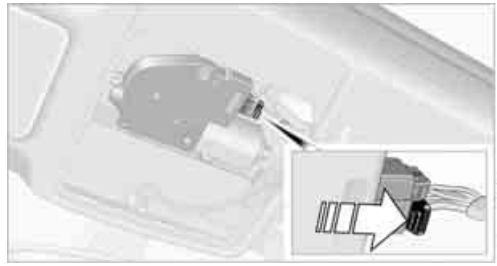
1. Unclip the front of the cover of the interior lamps using the screwdriver from the onboard vehicle tool kit, refer to page 147.



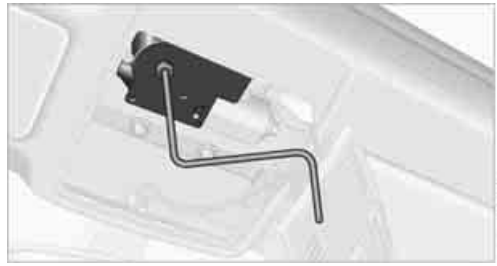
2. Insert the screwdriver into the openings on each side to press the clips.

3. Remove the control unit.

4. Unplug the motor. Considerably less effort will be required for manual operation.



5. Insert the Allen wrench* supplied with the onboard vehicle tool kit, refer to page 147, into the opening provided. Move the panorama glass roof in the desired direction.



6. Reinstall the control unit and reattach the lamp cover.

Adjustments

Sitting safely

The ideal sitting position can make a vital contribution to relaxed, fatigue-free driving. In conjunction with the safety belts, the head restraints and the airbags, the seated position has a major influence on your safety in the event of 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 42.

Airbags

Always maintain an adequate distance between yourself and the airbags. Always grip the steering wheel on the rim, with your hands in the 3 o'clock and 9 o'clock positions, to minimize the risk of injury to the hands or arms in the event of the airbag being triggered off.
No one and nothing should 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, e.g. not resting feet or legs on the dashboard; otherwise, leg injuries can occur if the front airbag deploys.
Make sure that passengers keep their heads away from the side airbag and do not lean against the cover of the head airbag; otherwise, serious injuries can result if the airbag deploys.◀

Even if you follow 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 77.

Head restraint

A correctly adjusted head restraint reduces the risk of neck injury in the event of an accident.

Adjust the head restraint in such a way that its center is at approx. ear level. Otherwise, there is an increased risk of injury in the event of an accident.◀

Head restraints, refer to page 35.

Safety belt

Before every drive, make sure that all occupants wear their safety belts. Airbags complement the safety belt as an additional safety device, but they do not represent a substitute.

Your vehicle has five seats, each of which is equipped with a safety belt.

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. Make sure that the belt in the lap area sits low across the hips and does not press against the abdomen.
The safety belt must not rest against the throat, run across sharp edges, pass over hard or fragile objects or be pinched. Fasten the safety belt so that it sits as snugly as possible against the lap and shoulder without being twisted. Otherwise, the belt could slide over your hips and injure your abdomen in the event of a frontal collision.
Avoid wearing bulky clothing and regularly pull the belt in the upper-body area taut; otherwise, its restraining effect could be impaired.
Sports Wagon: if the rear center safety belt is used, the wider backrest must be locked in place, refer to page 99. Otherwise, the safety belt will have no restraining effect.◀

Safety belts, refer to page 38.

Seats

Note before adjusting

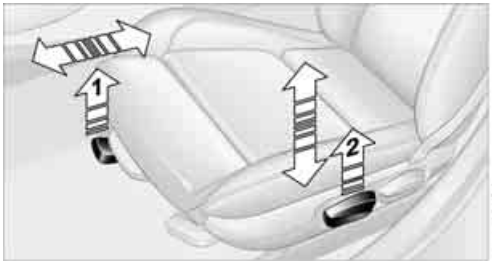
Never attempt to adjust your seat while the vehicle is moving. The seat could respond with unexpected movement, and the ensuing loss of vehicle control could lead to an accident.

On the front passenger seat as well, do not incline the backrest too far to the rear while the vehicle is being driven; 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.◀

Comply with the instructions on head restraint height on page 35, and on damaged safety belts on page 39.

Manual adjustment

Observe the adjustment instructions on page 34 to ensure the best possible personal protection.◀



Longitudinal direction

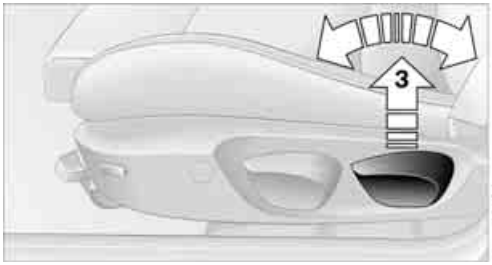
Pull lever **1** and slide the seat to the desired position.

After releasing the lever, move the seat gently forward or back to make sure it engages properly.

Height

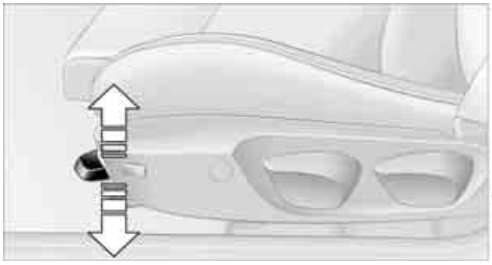
Pull lever **2** and apply your weight to the seat or lift it off, as necessary.

Backrest



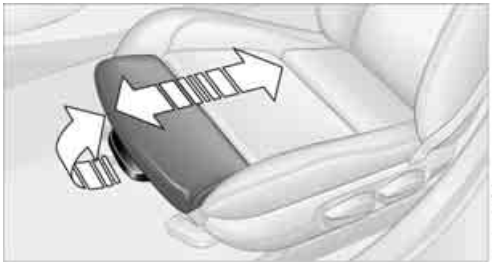
Pull lever **3** and apply your weight to the backrest or lift it off, as necessary.

Tilt*



Pull the lever and apply your weight to the seat or lift it off, as necessary.

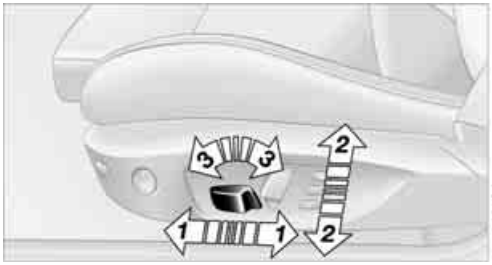
Thigh support*



Pull the lever and move the thigh support forward or back.

Electrical adjustment

Observe the adjustment instructions on page 34 to ensure the best possible personal protection.◀



1 Longitudinal direction

2 Height

3 Angle

4 Backrest

The head restraints are adjusted manually, refer to Head restraints below.

Lumbar support*

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

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

▷ Increase or decrease curvature: press the switch at the front or rear, respectively.

▷ Shift curvature up or down: press the switch at the top or bottom, respectively.

Backrest width*

You can change the width of the backrest to suit your individual preferences by adjusting the lateral-support pads.

Press the front or rear end of the switch. Backrest width decreases or increases accordingly.

Head restraints

Correctly adjusted head restraint

A correctly adjusted head restraint reduces the risk of neck injury in the event of an accident.

Adjust the head restraint in such a way that its center is at approx. ear level. Otherwise, there is an increased risk of injury in the event of an accident. Only remove a head restraint if no one will be sitting on the seat in question. Reinstall the head restraint before transporting anyone on that seat. Otherwise, the passenger will be without protection from the head restraint.◀

Height

Adjust the head restraint so that its center is approximately at ear level.

Distance

Adjust the distance so that the head restraint is as close as possible to the back of the head.

Front active head restraints

In a rear collision of a sufficient strength, the active head restraint reduces the distance to the head.

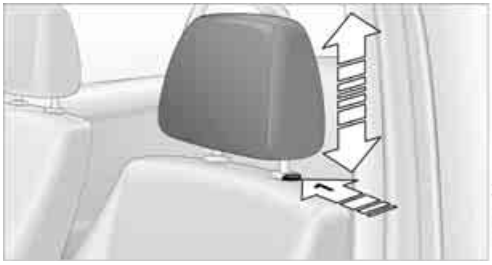
Do not use seat or head restraint covers that could impair the function of the active head restraint. Otherwise, the protective function of the active head restraint will not be ensured and its full potential in reducing the risk of injury in the event of a rear collision may not be realized.

In the event of malfunctions, deactivation or triggering of the active head restraints, have the testing, repair and removal executed only by a BMW center or a workshop that works according to repair procedures of BMW with correspondingly trained personnel and that has the required explosives licenses. Unprofessional attempts to work on the system could lead to failure in an emergency or to undesired airbag activation, either of which could result in personal injury.◀

For technical reasons, the head restraint cannot be removed.◀

Front seats

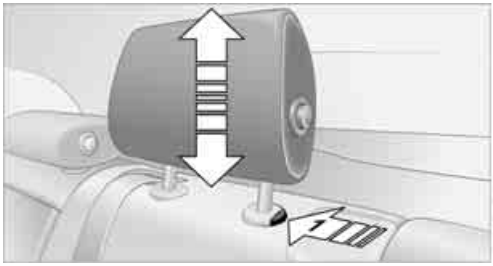
Height adjustment



- To raise: pull up.
- To lower: press the button, arrow **1**, and slide the head restraint down.

Rear seats

Height adjustment



- To raise: pull up.
- To lower: press the button, arrow **1**, and slide the head restraint down.

The center head restraint is not height-adjustable.

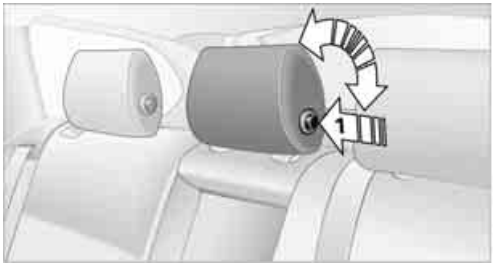
Removing

Sedan:
Only with through-loading system:

1. Pull up as far as it will go.
2. Press the button, arrow **1**, tilt the rear seat backrest slightly forward and pull the head restraint all the way out.

Only remove the head restraints if no passengers will be sitting in the rear. Reinstall head restraints before transporting passengers in the rear.◀

Folding head restraints down and back up



Folding down:
Press the button, arrow **1**.

Folding up:
Pull the head restraint.

Depending on the equipment version, it may be possible to fold down the outer rear head restraints as well.

Only fold the head restraints down if no passengers will be sitting in the rear. Fold up the head restraints before transporting passengers in the rear.◀

Heated seats*

Depending on the vehicle's equipment, press one of the buttons labeled **1** or **2** here.

Press the button once per temperature level. Three LEDs indicate the highest temperature.

To switch off:
Press button longer.

If you continue driving within approx. the next 15 minutes, the seat heating is automatically activated at the previously set temperature.

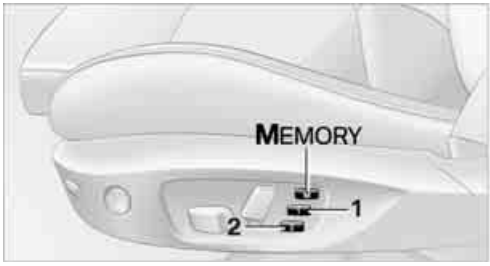
The temperature is lowered or the heating is switched off entirely to save on battery power. The LEDs stay lit.

Seat and mirror memory*

You can store and call up two different combinations of driver's seat and exterior mirror positions.

Settings for the backrest width and lumbar support are not stored in memory.

Storing



1. Switch on radio readiness or the ignition, refer to page 46.
2. Adjust the seat and exterior mirrors to the desired positions.
3. Press the M button.
   The LED in the button lights up.
4. Press the desired memory button **1** or **2**: the LED goes out.

   The driver's seat and exterior mirror positions are stored for the remote control currently in use.

Call-up

Do not call up the memory while you are driving; otherwise, unexpected seat movement could result in an accident.◀

Comfort function

1. Unlock and open the driver's door or switch on radio readiness, refer to page 46.
2. Briefly press the desired memory button **1** or **2**.

The adjusting procedure is halted immediately when you touch a seat adjustment switch or one of the memory buttons.

Safety feature

1. Close the driver's door and switch the ignition on or off, refer to page 46.
2. Press the desired memory button **1** or **2** and keep it pressed until the adjustment process has been completed.

If the M button was pressed accidentally: Press the button again; the LED goes out.

Call-up with the remote control

The driver's seat position last set is stored for the remote control currently in use.

You can select whether or not the seat is reset to that position automatically.

When this Personal Profile function is used, first make sure that the footwell behind the driver's seat is free of obstacles. Failure to do so could cause injury to persons or damage to objects as a result of a rearward movement of the seat.◀

The adjusting procedure is halted immediately when you touch a seat adjustment switch or one of the memory buttons.

Activating/deactivating automatic call-up

For operating principle refer to page 64.

1. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

2. Press button **2**.
3. Lightly push button **1** in the turn indicator lever down repeatedly until the symbol appears in the display.

4. Press button **2**.
5. Use button **1** to select:
   - ▷ Call-up when the vehicle is unlocked.
   - ▷ Call-up when the driver's door is opened.
   - ▷ off
     Switch off automatic function.
6. Press button **2**.
   The setting is stored.

Safety belts

Observe the adjustment instructions on page 34 to ensure the best possible personal protection.◀

Before every drive, make sure that all occupants wear their safety belts. Airbags complement the safety belt as an additional safety device, but they do not represent a substitute.

On the rear seats, the center belt buckle marked with the letters CENTER is solely intended for the center passenger.

Closing

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

The upper belt anchor is suitable for adults of any stature as long as the seat is adjusted properly, refer to page 34.

Opening

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

"Fasten safety belts" reminder for driver's and front passenger seat

The indicator lamps light up and an acoustic signal sounds. Check whether the safety belt has been fastened correctly.

The "Fasten safety belts" reminder is issued as long as the driver's safety belt has not been fastened. The "Fasten safety belts" reminder is also activated at road speeds above approx. 5 mph or 8 km/h if the front passenger safety belt is not fastened, if objects are placed on the front passenger seat, or if driver or front passenger unfasten their safety belts.

Damage to safety belts

If the safety belts are damaged or stressed in an accident: have the belt system, including any belt tensioners or child restraint systems, replaced and the belt anchors checked. Have this work done only by your BMW center or at a workshop that works according to BMW repair procedures with correspondingly trained personnel. Otherwise, it is not guaranteed that the safety devices will function properly.◀

Rear center safety belt

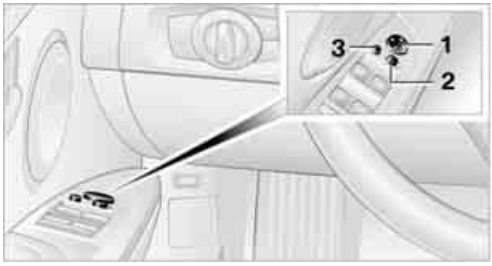
With through-loading system*:

Before using the center rear seat, release the latch plate from the fixture on the rear window shelf and insert it into the belt lock of the center safety belt. Make sure you hear the latch plate engage.

Mirrors

Exterior mirrors

The front passenger's mirror is more convex than the driver's mirror. The objects seen in the mirror are closer than they appear. Do not gauge your distance from traffic behind you on the basis of what you see in the mirror; otherwise, there is an increased risk of an accident.◀



1 Adjustments

2 Switching to the other mirror or automatic curb monitor*

3 Folding mirrors in and out*

The setting for the exterior mirrors is stored for the remote control currently in use*. The stored position is called up automatically when the vehicle is unlocked.

Manual adjustment

The mirrors can also be adjusted manually: press the edge of the glass.

Folding mirrors in and out*

At driving speeds up to approx. 12 mph/ 20 km/h, you can fold the mirrors in and out by

pressing button **3**. This can be beneficial in narrow streets, for example, or for moving mirrors that were folded in by hand back out into their correct positions. Mirrors that were folded in are folded out automatically at a speed of approx. 25 mph/40 km/h.

Before entering an automatic car wash, fold in the exterior mirrors manually or with button **3** to prevent them from being damaged, depending on the width of the vehicle.◀

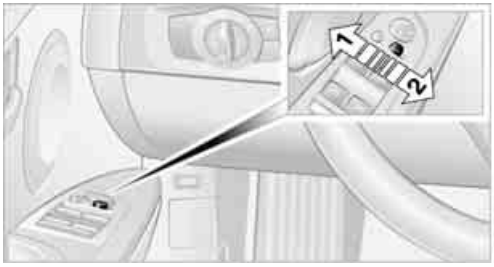
Automatic heating*

Depending on the outside temperature, both exterior mirrors are heated automatically when the engine is running or the ignition is switched on.

Passenger side mirror tilt function – automatic curb monitor*

Activating

1. Push the switch to the position for the driver's side mirror, arrow **1**.



2. Engage reverse gear or move the selector lever to position R.
   The glass of the mirror on the passenger side tilts slightly down. This allows the driver to see the area immediately adjacent to the vehicle, e.g. a curb, when backing into a parking space.

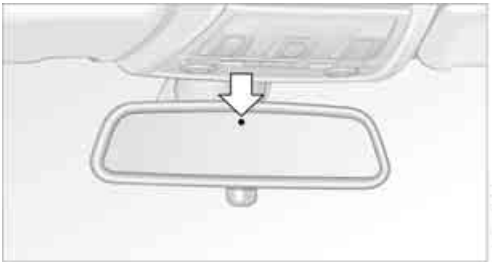
Deactivating

Push the switch to the position for the passenger side mirror, arrow **2**.

Interior rearview mirror

Turn the knob to reduce glare from the headlamps of cars behind you when driving at night.

Interior and exterior mirrors, automatic dimming feature*



The automatic dimming feature of the interior and exterior mirrors* is controlled by two photo cells in the interior rearview mirror. One photo cell is in the mirror frame, see arrow; the other is on the back of the mirror.

In order to ensure that the system functions correctly, keep the photo cells clean, do not cover the area between the interior rearview mirror and windshield, and do not affix adhesive labels or stickers of any kind to the windshield directly in front of the mirror.

Steering wheel

Adjustments

Do not adjust the steering wheel position while the car is in motion; otherwise, there is a risk of an accident due to unexpected movement.◀

1. Fold the lever down.
2. Move the steering wheel to the preferred height and angle to suit your seated position.
3. Swing the lever back up.

   Do not use force to swing the lever back up; otherwise, the mechanism will be damaged.◀

Steering wheel heating*

Press the button.

The LED in the button lights up when the steering wheel heating is switched on.

Transporting children safely

The right place for children

Do not leave children unattended in the vehicle; otherwise, they could endanger themselves and/or other persons by opening the doors, for example.◀

The rear center seat is not suitable for installing child restraint systems for all age groups, approved for the age group in question.

Children always in the rear

Accident research has shown that the safest place for children is on the rear seat.

Children under the age of 13 or smaller than 5 ft/150 cm may be transported only in the rear in suitable child restraint systems appropriate for their age, weight and size. Otherwise, there is an increased risk of injury in the event of an accident.◀

Children 13 years of age or older must be buckled in with a safety belt as soon as there no longer is any child restraint system that is appropriate for their age, size and weight.

Exception for front passenger seat

Should it be necessary to use a child restraint system on the front passenger seat, the front and side airbags for the front passenger must be deactivated. Otherwise, a child traveling on that seat will face a significant risk of injury if the airbags are triggered off, even with a child restraint system.◀

For more information on automatic deactivation of the front passenger airbags refer to page 77.

Installing child restraint systems

Observe the child restraint system manufacturer's instructions when selecting, installing and using child restraint systems. Otherwise, the protective effect may be diminished. ◀

Standard child restraint systems are designed to be secured with a lap belt or with the lap-belt section of a lap-and-shoulder belt. Incorrectly or improperly installed child restraint systems can increase the risk of injury to children. Always follow the installation instructions for the system with the greatest care.

On the front passenger seat

After installing a child restraint system on the front passenger seat, make sure that the front and side airbags for the front passenger are deactivated; otherwise, there is an increased risk of injury if the airbags deploy.◀

Seat position

Before installing a child restraint system, move the front passenger seat as far back and up as possible to obtain the best possible position for the belt. Do not change the seat position after this.

Backrest width*

The backrest width of the front passenger seat must be at its widest possible setting. Do not change the setting after installing the child seat. Otherwise, the child seat's stability on the front passenger seat is limited.◀

1. Adjust the backrest width to its widest setting, refer to page 35.
2. Install the child seat.

Child seat security

The rear safety belts and the front passenger safety belt can be prevented from being pulled out in order to fasten child restraint systems.

To lock the safety belt

1. Secure the child restraint system with the belt.
2. Pull the belt strap all the way out.
3. Allow the belt strap to retract and pull it taut against the child restraint system.

The safety belt is locked.

To unlock the safety belt

1. Open the belt buckle.
2. Remove the child restraint system.
3. Allow the safety belt strap to retract all the way.

LATCH child restraint fixing system

LATCH: Lower Anchors and Tethers for CHildren.

To install and use the LATCH child restraint system, follow the operating and safety instructions provided by the manufacturer of the system; otherwise, the protective function of the seat may be compromised.◀

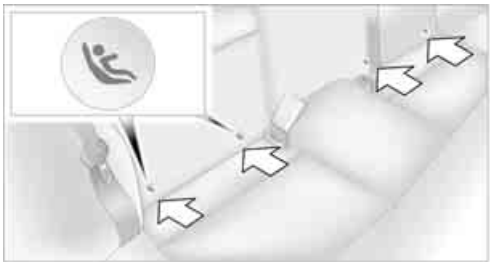
Before installing the child seat, pull the belt out of the area for the child restraint fixing system.

Ensure that both lower LATCH anchors are correctly engaged and that the child restraint system is resting firmly against the backrest; otherwise, the protective function of the seat may be compromised.◀

Rear seats with through-loading system

The anchor points for the lower LATCH anchors are located behind the labeled protective caps.

Rear seats without through-loading system

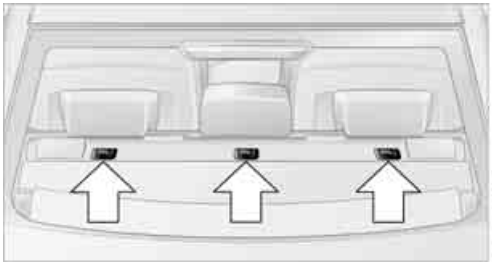


The anchor points for the lower LATCH anchors are located at the positions indicated by arrows, in the gap between the seat and the backrest.

Child restraint system with tether strap

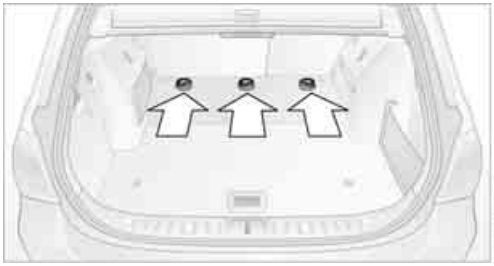
Use the top tether anchors to secure child restraint systems only; otherwise, the anchors could be damaged.◀

Sedan



There are three additional anchors for child restraint systems with tether straps, see arrows.

Sports Wagon

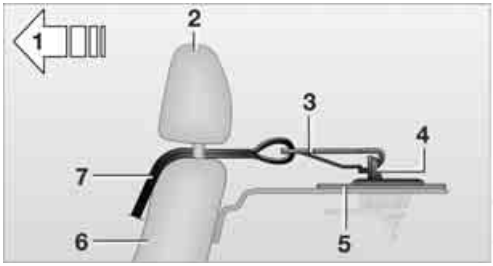


There are three additional anchors under a cover for child restraint systems with tether straps, see arrows.

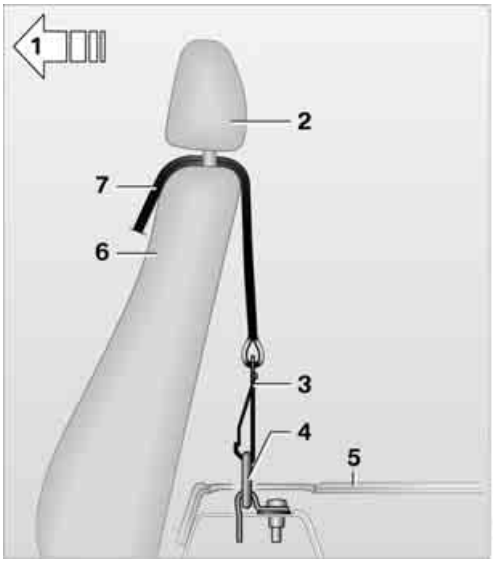
Placement of the tether strap

Make sure the upper retaining strap does not run over sharp edges and is not twisted as it passes to the top anchor. Otherwise, the strap will not properly secure the child restraint system in the event of an accident.◀

Sedan



Sports Wagon



1 Direction of travel
2 Head restraint
3 Hook for upper retaining strap
4 Anchor
5 Rear window shelf/cargo area floor
6 Seat backrest
7 Upper retaining strap of child restraint system

Fold the anchors and, if necessary, the head restraints* upward before use.

1. Push the head restraint upward.
2. Guide the upper retaining strap between the head restraint holders.

3. Use the hook to clip the retaining strap to the anchor.
4. Push the head restraint into its lowermost position.
5. Pull the retaining strap taut.

On journeys

Child safety locks for rear doors

Slide down the safety lever on the rear door:

The door can now be opened from the outside only.

Safety switch for power windows

Press the safety switch for the power windows, refer to page 29, if children are traveling on the rear seat.

Driving

Ignition lock

Insert the remote control into the ignition lock

Insert the remote control all the way into the ignition lock.

▷ Radio readiness is switched on. Individual electrical consumers can operate.

Comfort Access*

If the car is equipped with Comfort Access, only insert the remote control into the ignition lock under special circumstances, refer to page 26.

Removing the remote control from the ignition lock

Do not forcibly pull the remote control out of the ignition lock as this may cause damage.◀

Before removing the remote control, push it all the way in to release the locking mechanism.

▷ The ignition is switched off if it was on.

Automatic transmission

You cannot take out the remote control unless the selector lever is in the P position: interlock.

Start/stop button

Pressing the start/stop button switches radio readiness or the ignition on or off.

Manual transmission: the engine is started when you press the start/stop button and depress the clutch.
Automatic transmission: the engine is started when you press the start/stop button and depress the brake.◀

Radio readiness

Individual electrical consumers can operate. The time and the outside temperature are displayed in the instrument cluster.

Radio readiness is switched off automatically:

▷ When the remote control is removed from the ignition lock

▷ In cars with Comfort Access*, by touching the surface above the door lock, refer to Locking on page 27

Ignition on

All electrical consumers can operate. The odometer and trip odometer are displayed in the instrument cluster.

When the engine is off, please switch off the ignition and any unnecessary electrical consumers in order to preserve the battery.◀

Radio readiness and ignition off

All indicator and warning lamps as well as displays in the instrument cluster go out.

Starting the engine

Do not run the engine in enclosed areas; otherwise, the inhalation of toxic exhaust gases can cause loss of consciousness 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; otherwise, such a vehicle represents a potential safety hazard. Before leaving the car with the engine running, place the transmission in neutral or move the selector lever to position P and forcefully apply the parking brake to prevent the car from moving.◀

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

Do not wait for the engine to warm up while the vehicle remains stationary. Start driving right away, but at moderate engine speeds.

Manual transmission

Remote control in the ignition lock or, with Comfort Access, inside the vehicle, refer to page 26.

1. Depress the brake.
2. Depress the clutch and shift to neutral position.
3. Press the start/stop button.

The starter operates automatically for a certain time, and stops automatically as soon as the engine has started.

Automatic transmission

Remote control in the ignition lock or, with Comfort Access, inside the vehicle, refer to page 26.

1. Depress the brake.
2. Move the selector lever to position P.
3. Press the start/stop button.

The starter operates automatically for a certain time, and stops automatically as soon as the engine has started.

Diesel engine

When the engine is cold and temperatures are below approx. 32 °F /0 °C, the starting process may take a little more time due to automatic preheating. The preheating indicator lamp lights up in the instrument cluster.

Switching off the engine

Always take the remote control with you when you leave the vehicle.
When parking, apply the parking brake forcefully; otherwise, the vehicle could begin to roll.◀

Manual transmission

1. With the car at a standstill, press the start/stop button.
2. Shift into first gear or reverse.
3. Forcefully apply the parking brake.
4. Removing the remote control from the ignition lock, refer to page 46.

Automatic transmission

1. With the car at a standstill, move the selector lever to position P.
2. Press the start/stop button.
3. Forcefully apply the parking brake.
4. Removing the remote control from the ignition lock, refer to page 46.

Parking brake

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

Indicator lamp

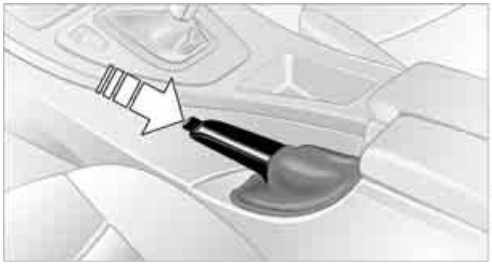
BRAKE The indicator lamp is lit, and when you drive off an acoustic signal sounds in addition. The parking brake is still applied.

Indicator lamp for Canadian models.

Applying

The lever locks in position automatically.

Releasing



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

In exceptional cases, if the parking brake has to be used to slow or stop the car, do not pull the lever up too hard. In doing so, continuously press the button of the parking brake lever.
Otherwise, excessive force on the parking brake can lock up the rear wheels and cause the rear of the car to swerve.◀

To prevent corrosion and one-sided braking action, occasionally apply the parking brake lightly when the vehicle is slowly coming to a stop if the traffic conditions are suitable.
The brake lamps do not light up when the parking brake is applied.◀

Manual transmission

When shifting into 5th or 6th gear, press the gearshift lever to the right. Otherwise, the engine could be damaged if you inadvertently shift into 3rd or 4th gear.◀

Reverse gear

Select this only when the vehicle is stationary. When the gearshift lever is pressed to the left, a slight resistance has to be overcome.

Automatic transmission with Steptronic*

In addition to fully automatic operation, you can also manually shift with the Steptronic, refer to page 49.

Vehicle parking

To prevent the vehicle from rolling, always select position P and apply the parking brake before leaving the vehicle with the engine running.◀

Disengaging the remote control

In order to remove the remote control from the ignition lock, you must first move the selector lever to position P and switch off the engine: interlock. Removing the remote control from the ignition lock, refer to page 46.

Selector lever positions

P R N D M/S + –

Displays in the instrument cluster

P R N D DS M1 to M6

The selector lever position is displayed, or the current gear in the manual mode.

Changing selector lever positions

- With the ignition switched on or the engine running, the selector lever can be moved out of position P.
- Before moving the lever away from P or N with the vehicle stationary, first depress the brake; otherwise, the selector lever will refuse to move: shiftlock.

  To prevent the vehicle from creeping after you select a driving position, depress the brake until you are ready to start.◀

A lock prevents you from inadvertently engaging selector lever positions R and P. To cancel the lock, press the button on the front of the selector lever, see arrow.

P Park

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

R Reverse

Select this only when the vehicle is stationary.

N Neutral

You can select this in a car wash, for example. The vehicle can roll.

D Drive, automatic position

Position for normal vehicle operation. All forward gears are selected automatically.

Under normal operating conditions, fuel consumption is lowest when you are driving in position D.

Kickdown

Kickdown enables you to achieve maximum performance.
Press the accelerator pedal beyond the full-throttle resistance point.

Sport program and manual operation M/S

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

To deactivate the sport program or manual mode M/S, move the selector lever to the right into position D.

Shifting gears via the selector lever

Move selector lever from position D toward the left into the M/S shifting slot:
When you press the selector lever forwards or backwards, the manual mode is activated and

Steptronic changes gear. M1 through M6 are displayed on the instrument cluster.

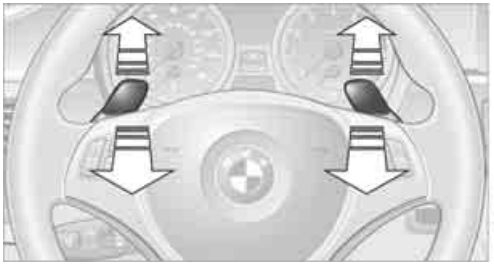
Upshifts and downshifts are executed only when they will result in a plausible combination of engine and vehicle speed; thus, for example, a downshift that would cause the engine to overrev will not be executed by the system. The gear selected is briefly displayed in the instrument cluster, followed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

Shifting gears via shift paddles* on the steering wheel

The shift paddles allow you to shift gears quickly since both hands can remain on the steering wheel.

- When you use the shift paddles on the steering wheel to shift gears in automatic mode, the transmission switches to manual mode.
- If you do not accelerate or shift gears using the shift paddles for a certain amount of time, the transmission switches back to automatic mode.

If the selector lever is in the M/S gear plane, manual mode remains active.◀



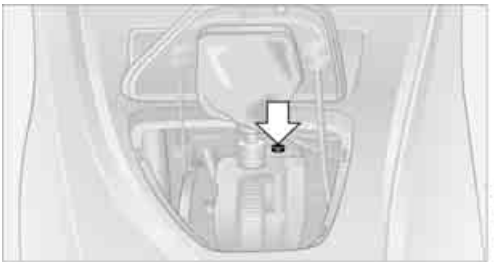
- To shift up: pull one of the shift paddles.
- To shift down: press one of the shift paddles.

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 gear selected is briefly displayed in the instrument cluster, followed by the gear actually in use.

Overriding selector lever lock

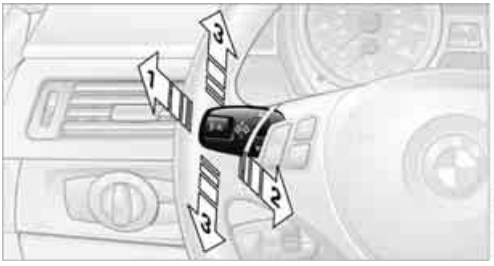
Should the selector lever refuse to move out of position P even though the ignition is switched on, the brake is depressed and the button on the selector lever is pressed, the selector lever lock can be overridden:

1. Unclip the sleeve of the selector lever.
2. Pull the sleeve up over the selector lever until the sleeve is inside out.



3. Using the screwdriver from the onboard vehicle tool kit, refer to page 147, press the red lever while moving the selector lever to the desired position.

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.

▷ Unusually rapid flashing of the indicator lamp indicates that a turn signal indicator has failed.◀

Indicating a turn briefly

Press the lever as far as the resistance point for as long as you wish to indicate a turn.

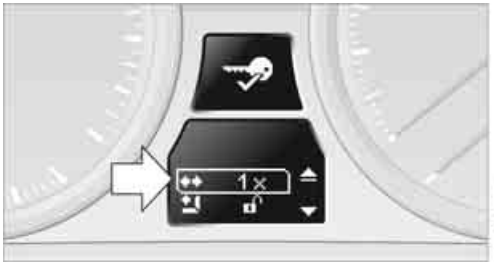
Triple turn signal activation

Press the lever as far as the resistance point. The turn signals flash three times.

You can activate or deactivate this function.

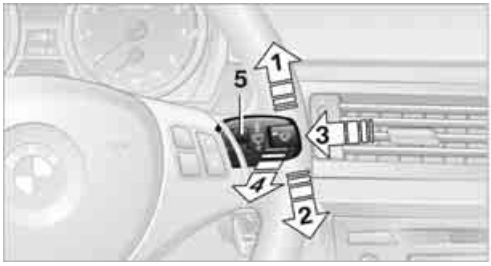
1. Switch on the ignition, refer to page 46.
2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

3. Press button **2**.
4. Lightly push button **1** in the turn indicator lever down repeatedly until the symbol appears in the display.



5. Press button **2**.
6. Use button **1** to select:
   - ▷ 1 ×
     Turn signals flash once.
   - ▷ 3 ×
     Triple turn signal.
7. Press button **2**.
   The setting is stored for the remote control currently in use.

Wiper system



1 Switching on wipers

2 Switching off wipers or brief wipe

3 Activating/deactivating intermittent wipe or rain sensor*

4 Cleaning windshield and headlamps*

5 Setting speed for intermittent wipe, or sensitivity of the rain sensor

Switching on wipers

Press the lever upward, arrow **1**.

The lever automatically returns to its initial position when released.

Normal wiper speed

Press once.

The system switches to operation in the intermittent mode when the vehicle is stationary.

Fast wiper speed

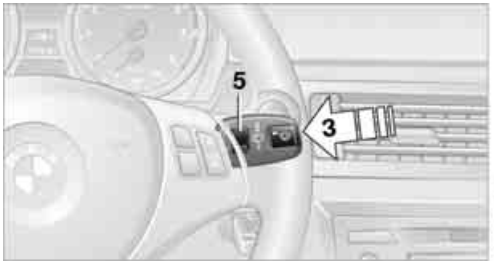
Press twice or press beyond the resistance point.
The system switches to normal speed when the vehicle is stationary.

Intermittent wipe or rain sensor*

If the car is not equipped with a rain sensor, the intermittent-wipe time is a preset.

If the car is equipped with a rain sensor, the time between wipes is controlled automatically and depends on the intensity of the rainfall. The rain sensor is mounted on the windshield, directly in front of the interior rearview mirror.

Activating intermittent wipe or rain sensor



Press the button, arrow **3**. The LED in the button lights up.

Setting speed for intermittent wipe or sensitivity of the rain sensor

Turn thumbwheel **5** up or down.

Deactivating intermittent wipe or rain sensor

Press the button again, arrow **3**.
The LED goes out.

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

Cleaning windshield and headlamps*

Pull the lever, arrow **4**.

Washer fluid is sprayed onto the windshield and the wipers are operated for a short time.

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, your vision could be obscured. Antifreeze should therefore be added to the fluid, refer to Washer fluid.
Do not use the washers when the washer fluid reservoir is empty; otherwise, you will damage the washer pump.◀

Windshield washer nozzles

The windshield washer nozzles are heated automatically* while the engine is running or the ignition is switched on.

Sports Wagon: rear window wiper

1 Intermittent operation. When reverse gear is engaged, the system switches to continuous operation.

2 Cleaning the rear window

The rear window wiper does not move if the lever is in position **1** before the ignition is switched on.

To switch on the rear window wiper:

1. Move the lever to its home position.
2. Reselect the desired position.

Do not use the washers when the washer fluid reservoir is empty; otherwise, you will damage the washer pump.◀

Washer fluid

Washer fluid antifreeze is flammable. Therefore, keep it away from ignition sources and only store it in the closed original container that is kept out of reach of children; otherwise, there is a risk of personal injury. Comply with the instructions on the container.◀

Washer fluid filler neck

Only refill washer fluid when the engine is cool to avoid contact with hot engine parts. Otherwise, fluid spills constitute a fire hazard and a risk to personal safety.◀

All washer nozzles are supplied with washer fluid by the same reservoir.

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

Mix the water and antifreeze before filling the washer fluid reservoir to make sure the correct concentration is maintained.◀

Capacity

Approx. 6.3 US quarts/6 liters.

Cruise control*

The concept

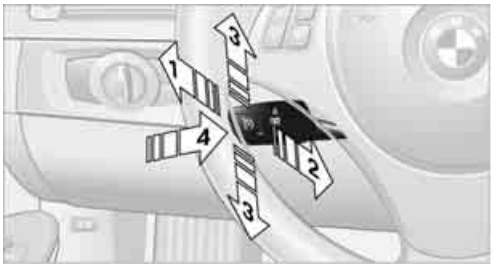
Cruise control is available for use at speeds of approx. 20 mph or 30 km/h. The car then stores and maintains the speed that you specify using the lever on the steering column. In order to maintain the specified speed, the system brakes the vehicle when the engine braking effect is insufficient on downhill gradients.

Do not use cruise control when driving at constant speed is prevented by adverse conditions, e.g. winding roads, dense traffic or poor road conditions due to, e.g., snow, rain, ice or loose surfaces. Otherwise, you could lose control of the vehicle and cause an accident as a result.◀

Manual transmission

You can shift gears while cruise control is activated. The system is deactivated when you drive at very low engine speeds for an extended period.

One lever for all functions



1 Storing and maintaining speed or accelerating

2 Storing and maintaining speed or decelerating

3 Deactivating cruise control

4 Resuming a speed stored beforehand

Maintaining current speed

Tap the lever, arrow **1**, or pull it briefly, arrow **2**. The car's current speed is stored and maintained. It is displayed on the speedometer and briefly in the instrument cluster.

On uphill gradients, it may prove impossible to maintain the set speed if current engine power output is insufficient. If the engine braking effect is insufficient on downhill slopes, the system will brake the vehicle slightly.

Increasing desired speed

Repeatedly press the lever to the resistance point or beyond, arrow **1**, until the desired speed is reached.

- Each time the lever is pressed to the resistance point, the desired speed is increased by approx. 1 mph or 1 km/h.
- Each time the lever is pressed beyond the resistance point, the desired speed is increased by up to 5 mph or 10 km/h.

The system stores and maintains the speed.

Accelerating using the lever

Accelerating slightly:

Press the lever to the resistance point, arrow **1**, until the desired speed is reached.

Accelerating significantly:

Press the lever beyond the resistance point, arrow **1**, until the desired speed is reached.

The vehicle accelerates without pressure on the accelerator pedal. The system stores and maintains the speed.

Decreasing speed

Repeatedly pull the lever to the resistance point or beyond, arrow **2**, until the desired speed is displayed.

- Each time the lever is pulled to the resistance point, the desired speed is decreased by approx. 1 mph or 1 km/h.
- Each time the lever is pulled beyond the resistance point, the desired speed is reduced by up to 5 mph or 10 km/h until the minimum speed of 20 mph or 30 km/h is achieved.

The system stores and maintains the speed.

Deactivating cruise control

Tap the lever upwards or downwards, arrow **3**. The displays on the speedometer disappear.

In addition, the system is automatically deactivated:

- When you brake the vehicle
- When you switch gears very slowly or shift to neutral in cars with manual transmission
- When you select the automatic transmission's neutral position N
- When you activate DTC or deactivate DSC
- When DSC or ABS is intervening

Cruise control is not deactivated by depressing the accelerator pedal. Once the accelerator pedal is released, the stored speed is achieved again and maintained.

Warning lamp

The warning lamp lights up when cruise control is deactivated due to control intervention by the DSC, for example.

Resuming a speed stored beforehand

Press the button, arrow **4**. The last stored speed is resumed and maintained.

In the following instances, the stored speed is deleted and can no longer be resumed:

- When driving stability control systems are intervening
- In cars with manual transmission: when you shift gears very slowly or shift to neutral
- In cars with automatic transmission: when you engage selector lever position N
- When the ignition is switched off

Displays in the instrument cluster

1 Stored speed

2 Selected speed is displayed briefly

If --- mph or --- km/h temporarily appears in the instrument cluster display, it is possible that the system prerequisites for operation are currently not met.
Calling up Check Control messages, refer to page 68.◀

Malfunction

The warning lamp comes on when the system has failed. More information can be found beginning on page 160.

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 highways 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.

Within the limits of its capability, the system automatically adapts the car's speed to that of a slower vehicle in front of you. You can specify the distance to be maintained from the vehicle in front in four stages. For safety reasons, the distance is 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. Your selected speed will be held when driving downhill, too.

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 System limitations section beginning on page 59.

Braking sensation

- If you step on the brake pedal while the system is braking, pedal sensation will be slightly different from the usual.
- Possible noises during automatic braking are normal.

Manual transmission

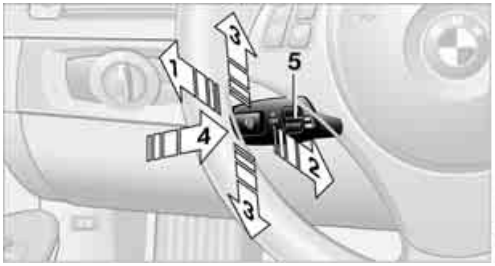
You can shift gears while cruise control is activated. The system is deactivated when you drive at very low engine speeds for an extended period.

Range of applications

The minimum desired speed is 20 mph or 30 km/h, the maximum desired speed is 110 mph or 180 km/h.

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. Otherwise, driving situations could result that pose the risk of accidents.◀

One lever for all functions



1 Store and increase desired speed
2 Store and decrease desired speed
3 Deactivate system, refer to page 57
4 Resume stored desired speed and distance, refer to page 57
5 Select distance to vehicle driving ahead, refer to page 56

Storing current speed

Briefly press the lever, arrow **1**, or briefly pull it, arrow **2**, at a driving speed of more than approx. 20 mph or 30 km/h.

The car's current speed is stored. It is displayed on the speedometer and briefly in the instrument cluster.

Increasing desired speed

Press or tap the lever to the resistance point or beyond, arrow **1**, until the desired speed is displayed.

- Each time the lever is tapped to the resistance point, the desired speed is increased by approx. 1 mph or 1 km/h.
- Each time the lever is tapped beyond the resistance point, the desired speed is increased by up to 5 mph or 10 km/h until the maximum speed of 110 mph or 180 km/h is achieved.

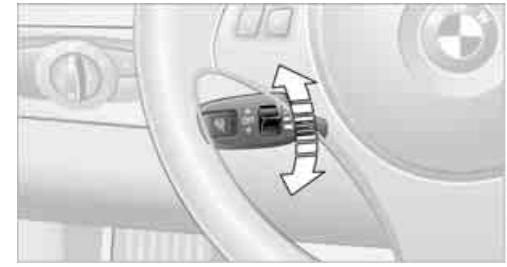
The speed then displayed is stored and achieved on a clear road.

Decreasing desired speed

Pull the lever, arrow **2**, until the desired speed is displayed.

The other functions work analogously to those described under Increasing desired speed.

Selecting distance



- Press downward:
  Increase distance.
- Press upward:
  Decrease distance.

The selected distance is displayed in the instrument cluster.

Distance 1

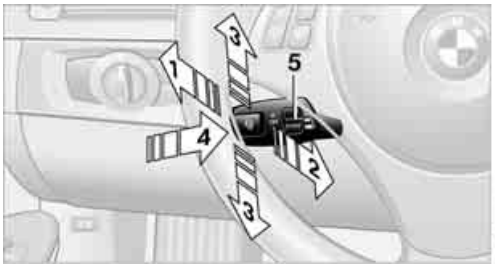
Distance 2

Distance 3

Distance 4
This is always the preset distance when you use the system for the first time after starting the engine.

Use good judgment to select the appropriate following distance given road conditions, traffic, applicable laws and driving recommendations for safe following distance. Otherwise, an accident risk could result.◀

Deactivating cruise control



Press the lever upward or downward, arrow **3**. The displays on the speedometer disappear.

In addition, the system is automatically deactivated:

- When you brake the vehicle
- When the speed is reduced to below 20 mph or 30 km/h due to a traffic situation
- When you switch gears very slowly or shift to neutral in cars with manual transmission
- When you select the automatic transmission's neutral position N
- When you activate the Dynamic Traction Control DTC
- When you deactivate the Dynamic Stability Control DSC
- When DSC or ABS is intervening
- When the system does not recognize any objects for a longer period of time, e.g. on infrequently traveled roads without a shoulder or guard rails, or if the radar sensor is covered with dirt, refer to page 58
- When you apply the parking brake

When the system is deactivated, you must brake the vehicle yourself and/or maneuver as necessary; otherwise, there is a risk of accidents.◀

Warning lamp

The warning lamp comes on when active cruise control has been automatically deactivated, for example due to a driving speed below 20 mph or 30 km/h or a DSC intervention.

Resuming stored desired speed and distance

Briefly press the button, arrow **4**.
The stored speed and distance are regained and maintained.

In the following instances, the stored speed is deleted and can no longer be resumed:

- When driving stability control systems are intervening
- In cars with manual transmission: when you shift gears very slowly or shift to neutral
- In cars with automatic transmission: when you engage selector lever position N
- When the ignition is switched off

Displays in the instrument cluster

1 Stored desired speed

2 Shows yellow: vehicle detected ahead

Flashes in red: system cannot maintain distance; driver must brake the vehicle

Flashes in yellow: driving stability control systems are intervening; cruise control is deactivated

3 Selected distance to vehicle ahead
The indicator lights up as soon as the system is activated.

4 Selected desired speed is temporarily displayed

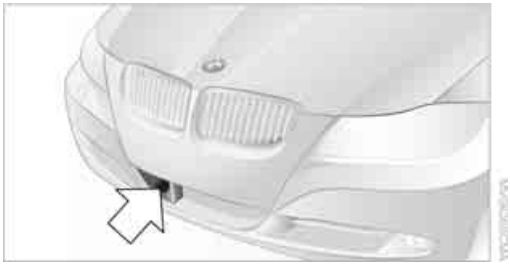
If --- mph or --- km/h temporarily appears in the instrument cluster display, it is possible that the system prerequisites for operation are currently not met. Calling up Check Control messages, refer to page 68.◀

Warning lamps

The indicator **2** flashes in red; a signal sounds.
The system indicates that you must brake and/or maneuver the vehicle yourself. Active cruise control cannot automatically restore the distance to the vehicle ahead.
This indicator does not release you from your responsibility to adapt your desired speed and driving style to prevailing driving conditions.

The indicator **2** flashes in yellow. The prerequisites for operating active cruise control are not met, e.g. as a result of ABS or DSC interventions. Active cruise control is deactivated. You can reactivate the system, if desired, by tapping or pulling the lever when road and traffic conditions permit. It is not possible to resume a stored speed.

Radar sensor



The sensor's ability to detect vehicles ahead may be restricted as a result of heavy rain, dirt, snow or ice. If necessary, clean the radar sensor located in the front bumper, see arrow. Be sure to use particular care when removing any layers of snow or ice from the sensor.

The system cannot be activated if the sensor is incorrectly aligned.

For US owners only

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

FCC ID:
NF3 ACC2SCU 003YK04001 0000

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

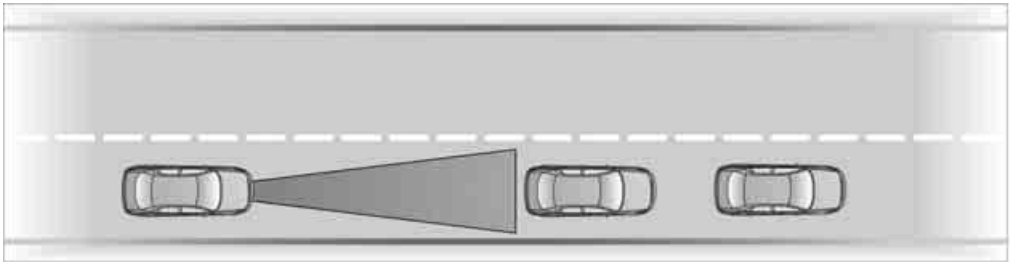
- This device must not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

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

Malfunction

The warning lamp comes on when the system has failed. More information can be found beginning on page 160.

System limitations



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.◀

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

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.

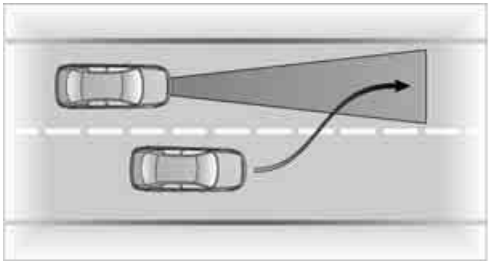
Be certain to deactivate the system when you pull into an exit lane for a highway off-ramp.◀

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.

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, e.g. 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: 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.◀

Active cruise control can only decelerate the vehicle to approx. 20 mph or 30 km/h.

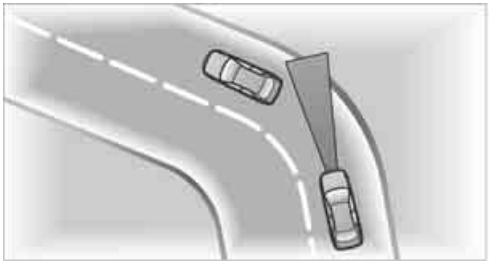
Swerving vehicles



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.

When a vehicle ahead suddenly swerves into your lane, the system may not be able to maintain the selected distance automatically. This also applies to great differences in speed between you and vehicles ahead, e.g. when quickly approaching a truck. There is a risk of collision. Once the system has established that a vehicle is indeed in front of you, it will indicate that you must brake and/or maneuver the vehicle yourself. Take action yourself; otherwise, there is a risk of an accident.◀

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.

Your responsibility

Your actions have priority at all times. When you press the accelerator pedal while driving with active cruise control, the automatic braking function will be temporarily interrupted. Once you release the accelerator pedal, the desired speed or the selected distance to the vehicle ahead is achieved again.

Do not leave your foot on the accelerator pedal and make sure that no objects such as floor mats are lying on the accelerator pedal. Otherwise, the system may not be able to brake the vehicle.◀

Controls overview

Odometer, outside temperature display, clock

1 Knob in the instrument cluster
2 Outside temperature display and clock
3 Odometer and trip odometer

Knob in the instrument cluster

- To reset the trip odometer while the ignition is switched on
- To display the time, outside temperature and odometer briefly while the ignition is switched off

Units of measure

To select the respective units of measure, miles or km for the odometer as well as °F or °C for the outside temperature, refer to page 64.

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

Time, outside temperature display

Setting the time, refer to page 67.

Outside temperature warning

When the displayed temperature sinks to approx. +37 °F /+3 °C, a signal sounds and a warning lamp lights up. There is an increased risk of black ice.

Black ice can also form at temperatures above +37 °F /+3 °C. You should therefore drive carefully on bridges and shaded roads, for example; otherwise, there is an increased risk of an accident.◀

Odometer and trip odometer

Resetting the trip odometer:
With the ignition switched on, press button **1** in the instrument cluster.

When the vehicle is parked

If you still want to view the time, outside temperature and odometer reading briefly after the remote control has been taken out of the ignition lock:
Press button **1** in the instrument cluster.

Tachometer

Never force the engine speed up into the red warning field, see arrow. In this range, the fuel supply is interrupted to protect the engine.

Coolant temperature

A warning lamp will come on if the coolant, and therefore the engine, becomes too hot.

Check coolant level, refer to page 140.

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.

Engine oil temperature*

When the engine is at normal operating temperature, the engine oil temperature is between approx. 210 °F /100 °C and approx. 300 °F / 150 °C.

If the engine oil temperature is too high, a warning lamp comes on in the instrument cluster.

Fuel gauge

Fuel tank capacity: approx. 16.1 gallons/ 61 liters.

You can find information on refueling on page 115.

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.

Reserve

Once the fuel level has fallen to the reserve zone of approx. 2.1 US gallons/8 liters for gasoline engines and approx. 1.7 US gallons/ 6.5 liters for diesel engines, the indicator lamp and the cruising range for the remaining amount of fuel are displayed briefly. The indicator lamp remains permanently on when the remaining range is less than approx. 30 miles/ 50 km.

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

Computer

Displays in the instrument cluster

Calling up information

Press the button in the turn indicator lever.

The following items of information are displayed in the order listed:

- Cruising range
- Average speed
- Average fuel consumption
- Current fuel consumption*
- No information

To set the corresponding units of measure, refer to Formats and units of measure on page 64.

Cruising range

Displays the estimated cruising range available with the remaining fuel. The range is calculated on the basis of the way the car has been driven over the last 18 miles/30 km and the amount of fuel currently in the tank.

Refuel as soon as possible once your cruising range falls below 30 miles/ 50 km; 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 the button in the turn indicator lever for approx. 2 seconds.

Average fuel consumption

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

To reset average fuel consumption: press the button in the turn indicator lever for approx. 2 seconds.

Current fuel consumption*

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

Settings and information

Operating principle

Certain settings and information can only be called up when the ignition is switched on. A number of settings cannot be made while driving.

1 Button for:
- ▷ Selecting display
- ▷ Setting values

2 Button for:
- ▷ Confirming selected display or set values
- ▷ Calling up computer information 63

3 When the lights are on: instrument lighting brightness 82

4 Calling up Check Control 67

5 Checking engine oil level* 137

6 Initializing the Flat Tire Monitor 72
Resetting the Tire Pressure Monitor 74

7 Setting the time 67

8 Setting the date 67

9 Viewing service requirement display 65

10 Setting formats and units of measure, resetting to factory settings 64

11 Adjusting settings
- ▷ Confirmation signals when locking and unlocking the vehicle 20
- ▷ Response during unlocking procedure 19
- ▷ Automatic locking 22
- ▷ Pathway lighting 79
- ▷ Daytime running lights 80
- ▷ Triple turn signal activation 51
- ▷ Seat memory* 38

Exiting displays

The outside temperature reading and the time reappear when you press button **2** or if you make no entries within approx. 15 seconds. If required, complete the current setting first.

Formats and units of measure

You can set formats and units of measure.

1. Switch on the ignition, refer to page 46.
2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

3. Press button **2**.
4. Use button **1** to select desired format or desired unit of measure, e.g. for fuel consumption.

- Fuel consumption: mpg, km/l, l/100km
- Distance covered: mls, km
- Time: 12h, 24h format
- Date: day.month dd.mm, month/day mm/dd
- Temperature: °F, °C

5. Press button **2**.
6. Use button **1** to make the setting.
7. Press button **2**.
The setting is stored for the remote control currently in use.

Resetting to factory settings

You can reset the settings for formats and units of measure to the factory settings.

1. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

2. Press button **2**.
3. Use button **1** to select "RESET".

4. Press button **2** until ✓ is displayed.
The settings are reset.
The setting is stored for the remote control currently in use.

Service requirements

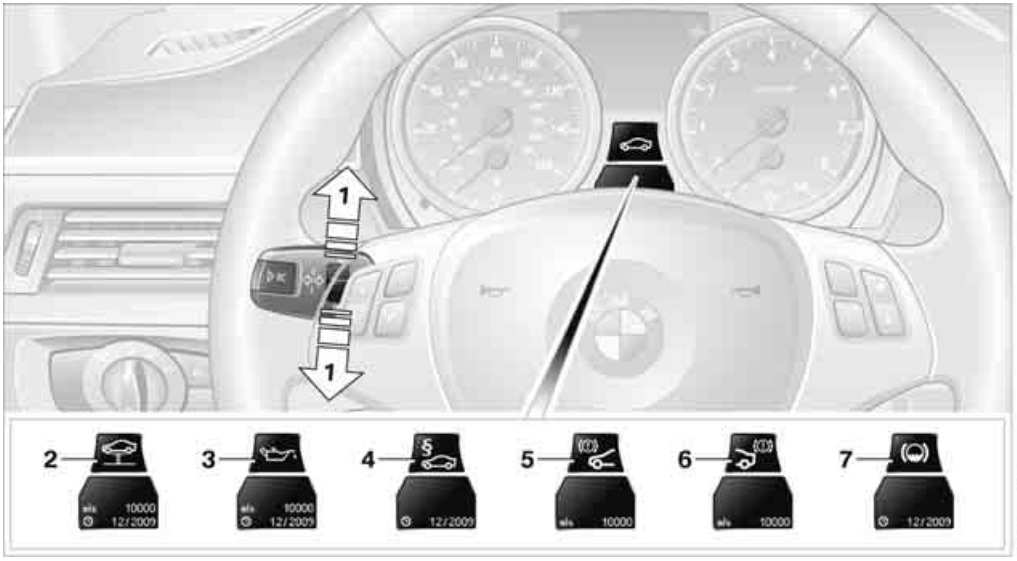
The remaining driving distance and the date of the next scheduled service are displayed briefly immediately after you start the engine or switch on the ignition.

The extent of service work required can be read out from the remote control by your BMW Service Advisor.◀

For certain maintenance operations, you can view the respective distance remaining or due date individually in the instrument cluster.

1. Switch on the ignition, refer to page 46.
2. Push button **1** in the turn indicator lever up or down repeatedly until the appropriate symbol appears in the display, accompanied by the words "SERVICE-INFO".
3. Press button **2**.
4. Use button **1** to scroll through the individual service items.

Possible displays



1 Button for selecting functions
2 Service requirements
3 Engine oil
4 Roadworthiness test*
5 Front brake pads
6 Rear brake pads
7 Brake fluid

The sequence of displayed service items may vary. The data for the next service appointment is shown first.

Clock

Setting the time

To set the 12h/24h mode, refer to Formats and units of measure on page 64.

1. Push button **1** in the turn indicator lever up or down repeatedly until the appropriate symbol appears in the display, accompanied by the time and the word "SET".
2. Press button **2**.
3. Use button **1** to set the hours.
4. Press button **2** to confirm the entry.
5. Use button **1** to set the minutes.
6. Press button **2** to confirm the entry.
7. Press button **2**.
   The system accepts the new time.

Date

The settings are stored for the remote control currently in use, refer also to Personal Profile on page 18.

Setting the date

To set the dd/mm or mm/dd date format, refer to Formats and units of measure on page 64.

1. Push button **1** in the turn indicator lever up or down repeatedly until the appropriate symbol appears in the display, accompanied by the date and the word "SET".
2. Press button **2**.
3. Use button **1** to set the day of the month.
4. Press button **2** to confirm the entry.
5. Set the month and the year in the same way.
6. Press button **2**.
   The system stores the new date.

Check Control

The concept

The Check Control monitors vehicle functions and alerts you to any malfunctions in the systems monitored. This type of Check Control message includes indicator and warning lamps in the instrument cluster and, in some cases, an acoustic signal.

Indicator and warning lamps can light up in a variety of combinations and colors.

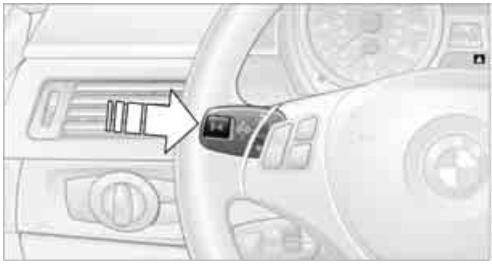
Several of the lamps are checked for proper functioning and light up temporarily when the engine is started or the ignition is switched on.

⚠ indicates that Check Control messages have been stored. These Check Control messages can be viewed again later, refer to page 68.

What to do in case of a malfunction

The meaning of each lamp in the event of a malfunction and tips on how to respond are listed starting on page 160.

Hiding Check Control messages



Press the button on the turn indicator lever.

- Some Check Control messages are displayed continuously and remain visible until the malfunction has been rectified. If several malfunctions occur at once, the messages are displayed consecutively.
  These messages can be hidden for approx. 8 seconds. After this, they are displayed again automatically.
- Other Check Control messages are hidden automatically after approx. 20 seconds. They are stored and can be displayed again later.

Displaying stored Check Control messages

1. Push button **1** in the turn indicator lever up or down repeatedly until the appropriate symbol appears in the display, accompanied by the words "CHECK CONTROL".
2. Press button **2**.
   "CHECK OK" appears if there are no Check Control messages.
   If a Check Control message has been stored, the corresponding lamp comes on.
3. Push button **1** to check for other messages.
4. Press button **2**.
   The display again shows the outside temperature and the time.

Technology for driving comfort and safety

Park Distance Control PDC*

The concept

The PDC assists you with maneuvering in tight parking spaces. Acoustic signals warn you of the presence of an object behind your vehicle. To measure the distance, there are four ultrasonic sensors in either bumper.

An acoustic warning does not sound until an object is closer than approx. 2 ft/60 cm to the corner sensors, or closer than approx. 5 ft/1.50 m to the center sensors.

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; otherwise, physical circumstances may lead to the system warning being issued too late.◀

Switching on automatically

With the engine running or the ignition switched on, the system is activated after approx. 1 second when you engage reverse gear or move the automatic transmission selector lever to position R. Wait this short period before driving.

Switching off automatically

After approx. 55 yd/50 m of driving or above approx. 20 mph/approx. 30 km/h, the system switches off and the LED goes out.

Signal tones

When nearing an object, its position is indicated correspondingly by an interval tone. 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.

An interval tone is interrupted after approx. 3 seconds

- If you remain in front of an object that has been detected by only one of the corner sensors
- If you are driving parallel to a wall.

Malfunction

The indicator lamp in the instrument cluster comes on. PDC is malfunctioning. Have the system checked.

To avoid this problem, keep the sensors clean and free of ice or snow in order to ensure that they will continue to operate effectively. When using a high-pressure cleaner, do not spray the sensors for extended periods of time and only from a distance of at least 1 ft/30 cm.

System limitations

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 trailer towbars and hitches, thin or wedge-shaped objects, etc. Low objects that have already been displayed, e.g. curbs, can disappear again from the detection area of the sensors before or after a continuous tone sounds. Higher, protruding objects, e.g. ledges, cannot be detected. Therefore, always drive cautiously; otherwise, there is a risk of personal injury or property damage.
Loud sound sources outside or inside the car can drown out the PDC signal. Therefore, always drive cautiously; otherwise, there is a risk of personal injury or property damage.◀

Driving stability control systems

Your BMW has a number of systems that help to maintain the vehicle's stability even in adverse driving conditions.

Antilock Brake System ABS

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. Braking safely, refer to page 108.

Electronic brake-force distribution EBV

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

Dynamic Brake Control DBC

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.

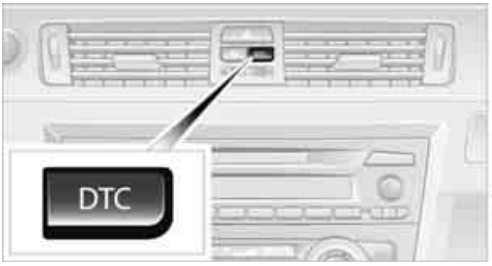
Do not reduce the pressure on the brake for the duration of the full braking application.

Dynamic Stability Control DSC

DSC prevents the driving wheels from losing traction when you pull away from rest or accelerate. The system also recognizes unstable driving conditions, for example if the rear of the car is about to swerve or if momentum is acting at an angle past 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 at the individual wheels.

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, as this could result in an accident.◀

Deactivating DSC



Press the button for at least 3 seconds; the indicator lamps for DSC in the instrument cluster light up. Dynamic Traction Control DTC and DSC have been simultaneously deactivated. Stabilizing and drive-output promoting actions are no longer executed.

In the same way as with a differential interlock*, even if DSC is deactivated, brake actions are still performed to enhance drive output if the drive wheels experience a significant loss of traction.

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

Activating DSC

Press the button again; the indicator lamps in the instrument cluster go out.

For better control

If the indicator lamp flashes:
DSC is regulating the drive and braking forces.

If the indicator lamps are on:
DSC is deactivated.

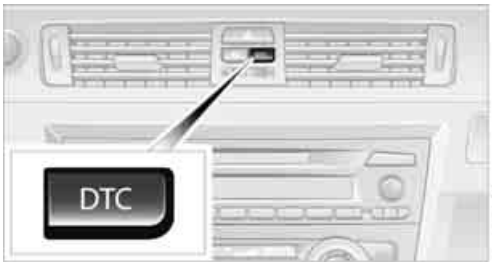
Dynamic Traction Control DTC

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 uphill on snow-covered roads, in slush or on unplowed, snow-covered roads
- 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; the indicator lamps for DTC in the instrument cluster come on.

For better control

If the indicator lamp flashes:
DTC is regulating the drive and braking forces.

If the indicator lamps are on:
DTC has been activated.

Deactivating DTC

Press the button again; the DTC indicator lamps in the instrument cluster go out.

xDrive*

xDrive is your BMW's four-wheel-drive system. The combined efforts of xDrive and DSC help to further optimize traction and driving dynamics. The xDrive four-wheel-drive system distributes driving power variably to the front and rear axles depending on the driving situation and road conditions.

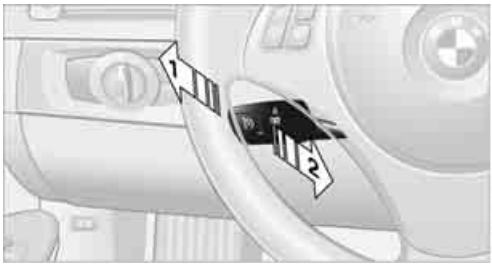
Hill Descent Control HDC*

HDC is a downhill driving assistant that controls your speed on steep downhill gradients and makes it even easier to control your BMW's handling under these conditions. The vehicle then moves slightly faster than double walking speed without the driver needing to intervene.

HDC can be activated as long as you are driving under approx. 20 mph or 35 km/h. When driving downhill at a speed of under approx. 20 mph or 35 km/h, the vehicle's speed is automatically reduced to slightly more than double walking speed and maintained.

Increasing or decreasing speed

By accelerating or braking you can change this speed within a range from approx. 3 to 15 mph, approx. 5 to 25 km/h.
You can specify a target speed within the same range using the cruise control* lever on the steering column.



1 To increase speed

2 To decrease speed

Activating HDC

Press the button; the LED lights up.
When the vehicle is being braked automatically, the LED flashes.

Deactivating HDC

Press the button again; the LED goes out.

HDC is automatically deactivated at speeds greater than approx. 35 mph/60 km/h.

Using HDC

In cars with manual transmission:
Use HDC in lower gears and in reverse gear.

With automatic transmission:
You can use HDC in any drive position.

Displays in the instrument cluster*

1 Display for target speed

2 HDC display

Malfunction

The HDC display disappears during HDC operation, or does not appear:
HDC is temporarily unavailable due to excessive brake temperature, or DSC has failed.

Drive-off assistant

The drive-off assistant enables you to drive off smoothly on uphill gradients. It is not necessary to use the parking brake for this.

1. Hold the car in place by depressing the brake.
2. Release the brake and drive off without delay.

The drive-off assistant holds the car in place for approx. 2 seconds after the brake is released. Drive off without delay after releasing the brake. Otherwise, the drive-off assistant will no longer hold the car in place after approx. 2 seconds and the car will start to roll backwards.◀

Flat Tire Monitor FTM*

The concept

The Flat Tire Monitor detects pressure loss in a tire by comparing the rotating speeds of the individual tires while moving.

In the event of pressure loss, the rolling circumference changes and, thus, the rotating speed of the affected wheel. 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.

The system must be reinitialized each time a tire inflation pressure has been corrected or a wheel or tire has been changed.◀

System limitations

The Flat Tire Monitor is unable to warn the driver of sudden, severe tire damage caused by external factors, nor can it identify the gradual loss of pressure that will inevitably occur in all four tires over a lengthy period of time.◀

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

- System has not been initialized
- Driving on snowy or slippery road surface
- Performance-oriented style of driving: slip in the drive wheels, high lateral acceleration
- Snow chains are attached

Initializing the system

The initialization is completed during driving, which can be interrupted at any time. When driving resumes, the initialization is continued automatically.
Do not initialize the system while snow chains are attached.◀

For operating principle refer to page 64.

1. Start the engine immediately before pulling away, but do not drive off yet.

2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the corresponding symbol appears in the display accompanied by the word "RESET".
3. Press button **2** to confirm your choice of the Flat Tire Monitor.
4. Press button **2** for approx. 5 seconds, until the reading shown below is displayed:

5. Start driving.
   Initialization is completed while the car is on the move, without any feedback.

Indication of a flat tire

The warning lamps come on in yellow and red. In addition, an acoustic signal sounds. There is a flat tire or substantial loss of tire pressure.

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

   If the car is not equipped with run-flat tires, refer to page 134, the standard equipment by design, do not continue driving. Otherwise, a severe accident could result if you continue driving.◀
2. At the next opportunity, check the air pressure in all four tires.

   If all four tires are inflated to the correct pressures, the Flat Tire Monitor might not have been initialized. The system must then be initialized.◀
3. In the event of complete tire pressure loss, 0 psi/0 kPa, you can estimate the possible distance for continued driving on the basis of the following guidelines:
   - With a light load:
     1 to 2 persons without luggage:
     Approx. 155 miles/250 km
   - With a medium load:
     2 persons, cargo area full, or 4 persons without luggage:
     Approx. 90 miles/150 km
   - With a full load:
     4 or more persons, cargo area full:
     Approx. 30 miles/50 km

Drive cautiously and do not exceed a speed of 50 mph or 80 km/h; otherwise, there is a risk of an accident. 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 vibration or loud noises occur during the journey, this may be an indication that the damaged tire has finally failed. Reduce your speed and pull over as soon as possible at a suitable location. Otherwise, parts of the tire could come loose, resulting in an accident. Do not continue driving. Instead, contact your BMW center.◀

Tire Pressure Monitor TPM*

The concept

RDC monitors the tire inflation pressure in the four mounted tires during a trip. The system notifies you if there is a significant loss of pressure in one or more tires.

Functional requirement

In order to assure the reliable reporting of a flat tire, the system must be reset while all tire inflation pressures are correct.

Always use wheels with TPM electronics. Otherwise, the system may malfunction.

Each time a tire inflation pressure has been corrected or a wheel or tire has been changed, reset the system.◀

System limitations

TPM cannot warn you in advance of sudden severe tire damage caused by outside influences.◀

The system does not work correctly if it has not been reset; for example, a flat tire may be indicated even though the tire inflation pressures are correct.

The system is inactive and cannot indicate a flat tire if a wheel without TPM electronics, such as a compact spare wheel, has been mounted, or if TPM is temporarily malfunctioning due to other systems or devices using the same radio frequency.

Resetting the system

Each time a tire inflation pressure has been corrected or a wheel or tire has been changed, reset the system.◀

For operating principle refer to page 64.

1. Start the engine, but do not start driving.
2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the corresponding symbol appears in the display accompanied by the word "RESET".

3. Press button **2** to confirm your choice of the Tire Pressure Monitor. The following display appears:

4. Press button **2** for approx. 5 seconds, until the reading shown below is displayed:

5. Start driving.
   After driving a few minutes, the set inflation pressures in the tires are accepted as the target values to be monitored. The system reset is completed during your drive, and can be interrupted at any time. When the trip is resumed, the reset is continued automatically. The indicator lamp goes out after the system reset is completed.

Message for low tire inflation pressure

The warning lamps come on in yellow and red. In addition, a signal sounds. There is a flat tire or substantial loss of tire pressure.

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 car is not equipped with run-flat tires, refer to page 134, the standard equipment by design, do not continue driving. Otherwise, a severe accident could

result after a tire puncture if you continue driving.◀

2. In the event of complete pressure loss, 0 psi/0 kPa, you can estimate the possible distance for continued driving on the basis of the following guidelines:
   - With a light load:
     1 to 2 persons without luggage:
     Approx. 155 miles/250 km
   - With a medium load:
     2 persons, cargo area full, or 4 persons without luggage:
     Approx. 95 miles/150 km
   - With a full load:
     4 or more persons, cargo area full:
     Approx. 30 miles/50 km

Drive cautiously 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 vibration or loud noises occur during the journey, this may be an indication that the damaged tire has finally failed. Reduce your speed and pull over as soon as possible at a suitable location. Otherwise, parts of the tire could come loose, resulting in an accident. Do not continue driving. Instead, contact your BMW center.◀

Malfunction

The small warning lamp flashes in yellow and then lights up continuously; the large warning lamp comes on in yellow. No punctures can be detected.

This type of message is shown in the following situations:

- If there is a malfunction
  Have the system checked.
- If a wheel without TPM electronics has been mounted
- If TPM is temporarily malfunctioning due to other systems or devices using the same radio frequency.

Declaration according to NHTSA/ FMVSS 138

Tire Pressure Monitoring Systems

Each tire should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires. As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system, TPMS, that illuminates a low tire pressure telltale when one or more of your tires are significantly underinflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly underinflated tire causes the tire to overheat and can lead to tire failure. Underinflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability. Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if underinflation has not reached the level at which the TPMS low tire pressure telltale illuminates.

The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously lit. This sequence will continue upon subsequent vehicle startups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

Active steering*

The concept

Active steering varies the turning angle of the front wheels in relation to steering wheel movements. It also varies the steering force required to turn the wheels depending on the speed at which you are driving.

When you are driving in the low road speed range, e.g. in a town or when parking, the steering angle is increased, i.e. steering becomes very direct and less effort is required to turn the wheels. In the higher speed range, on the other hand, the steering angle is reduced as the speed increases. This improves the handling 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 70.

Malfunction

The warning lamps come on. Active steering is malfunctioning or is temporarily deactivated. At low speeds, greater steering wheel movements are required, whereas at higher speeds the vehicle reacts more sensitively to steering wheel movements. The stability-enhancing feature may also be deactivated. Drive cautiously and think well ahead.

Deactivation

Active steering is deactivated to perform an initialization. A message indicates that the feature is deactivated. Initialization may take several minutes.

If the message does not disappear during the current trip, have the system checked.

Defect

If there is a defect, a corresponding message appears. Have the system checked.

Servotronic*

The concept

The Servotronic varies the steering force required to turn the wheels relative to the vehicle speed.
At low speeds, the steering force is strongly assisted, i.e. less force is needed for steering. As the vehicle speed increases, the steering assisting power is reduced.

Malfunction

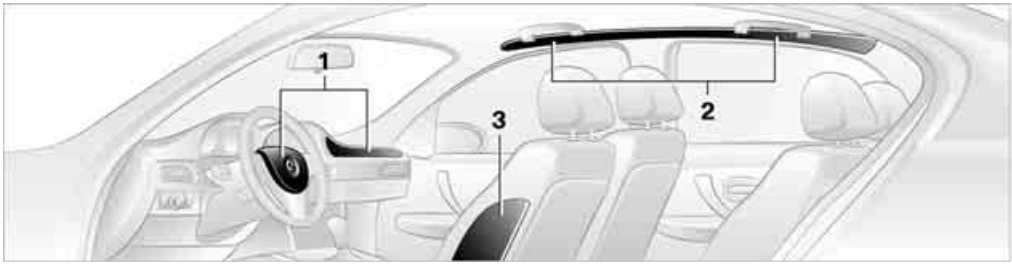
Malfunctions are displayed via Check Control, refer to page 67.

Brake Force Display

On the left: normal braking.

On the right: sharp braking.

Airbags



The following airbags are located under the marked covers:

1 Front airbags

2 Head airbags

3 Side airbags in the seat backrests

Protective action

Observe the adjustment instructions on page 33 to ensure the best possible personal protection.◀

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 have been designed to not be triggered in every collision situation, e.g. not in minor accidents or rear-end collisions.

Do not apply adhesive materials to the cover panels of the airbags, cover them or modify them in any other way.
Keep the dashboard and windows on the front passenger side clear, i.e. do not cover with adhesive labels or coverings, and do not attach holders such as for navigation instruments or mobile phones.
Do not attach seat covers, cushions or other objects not specifically approved for seats with integral side airbags to the front seats. Do not hang items of clothing such as coats or jackets over the backrests. Do not attempt to remove the airbag retention system from the vehicle. Do not modify the individual components of the system or its wiring in any way. This includes the upholstered covers on the steering wheel, instrument panel, seats and roof posts, as well as the sides of the roof lining. 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 repair procedures of BMW with correspondingly trained personnel and that has the required explosives licenses. Unprofessional attempts to work on the system could lead to failure in an emergency or to undesired airbag activation, either of which could result in personal injury.◀

Warning notices and information about the airbags can also be found on the sun visors.

Automatic deactivation of the front passenger airbags

An analysis of the impression in the front passenger seat cushion determines whether and how the seat is occupied. The front and side airbags for the front passenger are activated or deactivated by the system accordingly.

The indicator lamp above the interior rearview mirror shows the current status of the front passenger airbags, deactivated or

activated, refer to Status of front passenger airbags below.◀

Before transporting a child on the front passenger seat, read the safety precautions and handling instructions under Transporting children safely, refer to page 42.
The front and side airbags can also be deactivated by adolescents and adults sitting in certain positions; the indicator lamp for the front passenger airbags comes on. In such cases, the passenger should change his or her sitting position so that the front passenger airbags are activated and the indicator lamp goes out. If the desired airbag status cannot be achieved by changing the sitting position, transport the relevant passenger on a rear seat. Do not attach seat covers, seat cushion padding, ball mats or other items to the front passenger seat unless they are specifically recommended by BMW. Do not place any items under the seat which could press against the seat from below. Otherwise, a correct analysis of the seat cushion is not ensured.◀

Status of front passenger airbags

The indicator lamp for the front passenger airbags shows the functional status of the front passenger front and side airbags in accordance with whether and how the front passenger seat is occupied. The indicator lamp shows whether the front passenger airbags are activated or deactivated.

- The indicator lamp lights up when a child in a specially designated child restraint system is detected, as intended, on the seat.
  The front and side airbags for the front passenger are not activated.

Most child seats are detected by the system, especially child seats required by the NHTSA at the time of vehicle production. After mounting a child seat, ensure that the indicator lamp for the front passenger airbag is lit. It indicates that the child seat has been detected and that the front passenger airbags are deactivated.◀

- The indicator lamp does not come on as long as a person of sufficient size and in a correct sitting position is detected on the seat.
  The front and side airbags for the front passenger are activated.
- The indicator lamp does not come on if the seat is empty.
  The front and side airbags for the front passenger are not activated.

Operational readiness of airbag system

As of radio readiness, refer to page 46, the warning lamp comes on briefly to indicate that the entire airbag system and the belt tensioners are operational.

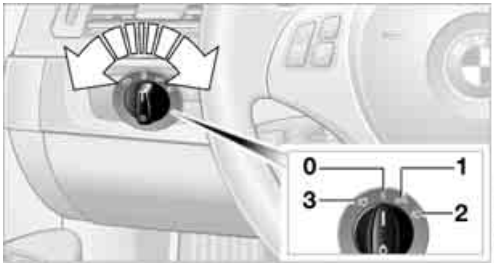
Airbag system malfunction

- Warning lamp does not light up at radio readiness or beyond.
- Warning lamp remains permanently on.

In the event of a fault in the airbag system, have it checked without delay; otherwise, there is the risk that the system will not function as intended even if a sufficiently severe accident occurs.◀

Lamps

Parking lamps/low beams



0 Lamps off,
daytime running lights

1 Parking lamps and daytime running lights

2 Low-beam headlamps and welcome lamps

3 Automatic headlamp control*, daytime running lights, welcome lamps, high-beam assistant* and adaptive light control*

When you open the driver's door with the ignition switched off, the exterior lighting is automatically switched off if the light switch is in position **0**, **2** or **3**.

Switch on the parking lamps if necessary, switch position **1**.

Parking lamps

In switch position **1**, the front, rear and side vehicle lighting is switched on. You can use the parking lamps for parking.

When the ignition is switched off and the switch is in position **1**, only the outside sections of the rear lamps are illuminated, refer to page 150.

The parking lamps will discharge the battery. Therefore, do not leave them on for unduly long periods of time; otherwise, the battery might not have enough power to start the engine. It is preferable to switch on the left-hand or right-hand roadside parking lamps, refer to page 81.◀

Low beams

The low beams light up when the light switch is in position **2** and the ignition is on.

Automatic headlamp control*

When the switch is in position **3**, the low beams are switched on and off automatically depending on ambient light conditions, e.g. in a tunnel, in twilight, or if there is precipitation. The adaptive light control* is active. The LED next to the symbol is illuminated when the low beams are on. You can also activate the daytime running lights, refer to page 80. In the situations described above, the lamps then automatically switch from daytime running lights to low beams.

The headlamps may also come on when the sun is sitting low on a blue sky.

The low beams remain switched on regardless of the ambient lighting conditions when you switch on the fog lamps.◀

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 or hazy weather. To avoid safety risks, you should always switch on the low-beam headlamps manually under these conditions.◀

Welcome lamps

If you leave the light switch in position **2** or **3** when you park the car, the parking lamps and the interior lamps light up briefly when you unlock the vehicle.

Pathway lighting

If you activate the headlamp flasher after switching off the ignition with the lamps switched off, the low beams come on and remain on for a certain time.

Setting the duration or deactivating

For operating principle, refer to page 64.

1. Switch on the ignition, refer to page 46.
2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

3. Press button **2**.
4. Lightly push button **1** in the turn indicator lever down repeatedly until the symbol appears in the display.

5. Press button **2**.
6. Use button **1** to select:
   - ▷ **0 s**
     The function is deactivated.
   - ▷ **10 s ... 240 s**
     Select the corresponding duration, e.g. 40 seconds.
7. Press button **2**.
   The setting is stored for the remote control currently in use.

Daytime running lights

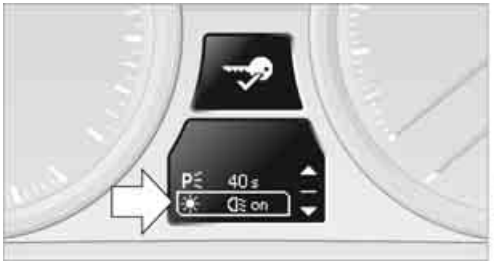
The daytime running lights light up in switch positions **0**, **1** and **3**.

Activating/deactivating daytime running lights

For operating principle, refer to page 64.

1. Switch on the ignition, refer to page 46.
2. Lightly push button **1** in the turn indicator lever up or down repeatedly until the symbol appears in the display accompanied by the word "SET".

3. Press button **2**.
4. Lightly push button **1** in the turn indicator lever down repeatedly until the symbol appears in the display.



5. Press button **2**.
6. Use button **1** to select:
   - ▷ **on**
     Daytime running lights activated.
   - ▷ **off**
     Daytime running lights deactivated.
7. Press button **2**.
   The setting is stored for the remote control currently in use.

Adaptive light control*

The concept

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

Activating Adaptive Light Control

With the ignition switched on, turn the light switch to position **3**, refer to page 79.

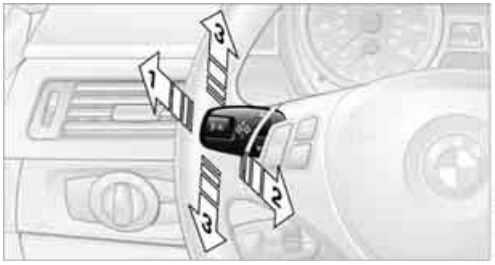
Standstill function*: to avoid blinding oncoming traffic, the adaptive light control directs light towards the front passenger side when the vehicle is at a standstill.

Adaptive light control is not active when reversing.

Malfunction

The LED next to the symbol for automatic headlamp control flashes. Adaptive light control is malfunctioning 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*

There is an additional option of switching on the lamps on the side of the car facing the road when parked.

Switching on

After parking the vehicle, press the lever up or down beyond the pressure point for a longer period, arrow **3**.

The roadside parking lamps drain the battery. Therefore, do not leave them on for unduly long periods of time; otherwise, the battery might not have enough power to start the engine.◀

Switching off

Press the lever in the opposite direction to the pressure point, arrow **3**.

High-beam assistant*

The concept

This system automatically switches the high beams on and off. The procedure is controlled by a sensor on the front of the interior rearview mirror. The assistant ensures that the high beams are switched on whenever the traffic situation allows. It handles this task for you and gives you the benefit of the best possible view. You can intervene at any time and switch the high beams on and off as usual.

Activating the system

1. Turn the light switch to position **3**, refer to page 79.
2. With the low beams switched on, briefly push the turn indicator lever in the direction of the high beam.

The indicator lamp in the instrument cluster lights up when the high beams are activated. The system automatically switches from high beams to low beams and vice versa in response to oncoming traffic, traffic ahead of you, and adequate ambient lighting, e.g. on city streets.

Switching the high beams on and off manually

Whenever you wish, or when the situation requires, you can intervene:

- If the high-beam assistant switches on the high beams, but you would like to drive with the low beams, simply switch off the high beams using the turn indicator lever. This deactivates the high-beam assistant.
  To reactivate the system, briefly push the turn indicator lever toward the high beams again.
- If the high-beam assistant switches on the low beams, but you would like to drive with the high beams, switch on the high beams as usual. This deactivates the system and the high beams need to be switched off manually, if necessary.
  To reactivate the system, briefly push the turn indicator lever toward the high beams again.
- Use the headlamp flasher as usual with the low beams switched on.

System limitations

The high-beam assistant cannot serve as a substitute for the driver's personal judgment of when to use the high beams. Therefore, manually switch off the high beams in situations where this is required to avoid a safety risk.◀

The system is not fully functional in situations such as the following, and driver intervention may be necessary:

- In very unfavorable weather conditions, such as fog or heavy precipitation
- In detecting poorly-lit road users, such as pedestrians, cyclists, horseback riders and wagons; when driving close to train or ship traffic; and at animal crossings
- In tight curves, on hilltops or in depressions, in cross traffic or half-obscured oncoming traffic on highways
- In poorly lit towns and cities and in the presence of highly reflective signs
- At low speeds
- When the windshield in front of the interior rearview mirror is fogged over, dirty or covered with stickers, etc.
- If the sensor is dirty. Clean the sensor on the front of the interior rearview mirror using a cloth moistened with a small amount of glass cleaner.

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 while you activate the headlamp flasher or switch on the high beams.

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 adjust the brightness of the instrument lighting only when the parking lamps or the low beams are switched on.

1. Push button **1** up or down repeatedly until the appropriate symbol appears in the display, accompanied by the brightness setting and scale the word "SET".
2. Press button **2**.

3. Push button **1** up or down to select the desired brightness level.
4. Press button **2**.
The display again shows the outside temperature and the time.

Interior lamps

The interior lamps, the footwell lamps*, entry lamps*, cargo area lamp and courtesy lamps* are controlled automatically.

The LEDs for the courtesy lamps are set in the door handles and illuminate the ground in front of the doors.

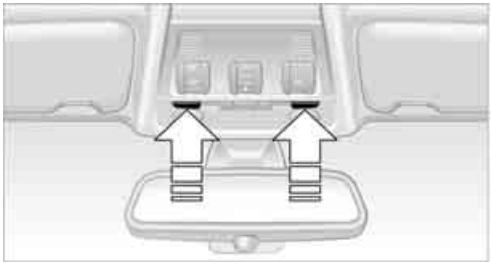
To avoid draining the battery, all lamps inside the car are switched off about 8 minutes after the ignition is switched off, refer to Start/stop button on page 46.◀

Switching interior lamps on/off manually

Interior lamps, front and rear*:
To switch on and off, press the button.

To switch off the interior lamps, footwell lamps*, entry lamps* and courtesy lamps* permanently, press the button for the front interior lamps for about 3 seconds.

Reading lamps



There are reading lamps at the front and rear*, next to the interior lamps. To switch on and off, press the button.

Climate

Equipment versions

Depending on the equipment version, your car has an air conditioner or an automatic climate control system.

1 Air conditioner 85

2 Automatic climate control* 87

Air vents

3 Airflow directed toward the windshield and side windows

4 Air to the upper body area.
The thumbwheels smoothly open and close the air supply. The levers alter the direction of the airflow. For further details of draft-free ventilation refer to page 89.

5 Air to the footwell

Air conditioner

1 Air distribution
2 Recirculated-air mode
3 Air volume
4 Cooling function
5 Temperature
6 Rear window defroster

Air distribution

Direct the flow of air to the windows, to the upper body area or to the footwell. Intermediate settings are possible.

Recirculated-air mode

If the air outside the car has an unpleasant odor or contains pollutants, shut off the supply to the interior of the car temporarily. The system then recirculates the air currently within the vehicle.

You can also activate/deactivate the recirculated-air mode by means of a button* on the steering wheel, refer to page 11.

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.
The recirculated-air mode should not be used continuously for lengthy periods; otherwise, the quality of the air inside the car will gradually deteriorate.◀

Air volume

Turn to adjust the air volume. The higher the volume, the more effective the heating or cooling will be.

The air volume may be reduced or the blower may be switched off entirely to save on battery power.

Switching the system on/off

Set any desired air volume to switch on the air conditioner.

Turn the air volume rotary switch to 0. The blower and air conditioner are completely switched off and the air supply is cut off.

The outside air supply is blocked when the air conditioner is switched off. If the air quality deteriorates or the window fogs over, switch the system back on and increase the air volume.◀

Switching cooling function on/off

The cooling function cools and dehumidifies the incoming air before reheating it according to the temperature setting. This function is only available while the engine is running.

The cooling function helps prevent condensation on the windows or removes it quickly.

Depending on the weather, the windshield may fog over briefly when the engine is started.

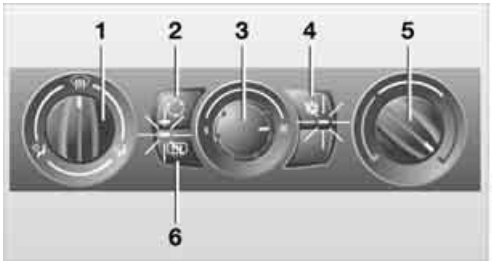
Rear window defroster

The defroster is switched off automatically after a certain time. Depending on your vehicle's equipment, the upper wires serve as an antenna and are not part of the rear window defroster.

Temperature

To increase the temperature, turn the rotary switch clockwise towards red.
For a lower temperature, turn the rotary switch counterclockwise towards blue.

Defrosting windows and removing condensation



1. Air distribution **1** in position .
2. Deactivate recirculated-air mode **2**.
3. Air volume control **3** all the way to the right.
4. Switch on cooling function **4**.
5. Temperature **5** to the right, red.
6. Switch on rear window defroster **6** to defrost the rear window .

Ventilation

1 Use the thumbwheels to smoothly open and close the air vents

2 Use the lever to change the direction of the airflow

Ventilation for cooling

Adjust the vent outlets to direct the flow of cool air in your direction, for instance if it has become too hot in the car.

Draft-free ventilation

Adjust the vents to let the air flow past you.

Microfilter

The microfilter removes dust and pollen from the incoming air. The microfilter is changed by your BMW center during routine maintenance work.

Automatic climate control*

1 Seat heating*, left side 37
2 Air distribution, manual
3 Temperature, left side
4 Maximum cooling
5 AUTO program
6 Air volume, manual adjustment; AUTO intensity
7 Automatic recirculated-air control AUC/ Recirculated-air mode
8 ALL program
9 Temperature, right side
10 Defrosting windows and removing condensation
11 Switching cooling function on/off manually
12 Rear window defroster
13 Seat heating*, right side 37
14 Interior temperature sensor, please keep clear

Comfortable interior climate

AUTO program **5** offers the ideal air distribution and air volume for almost all conditions, refer to AUTO program below. All you need to do is select an interior temperature which is comfortable for you.

The following sections inform you in detail about how to adjust the settings.

Most settings are stored for the remote control currently in use, refer also to Personal Profile settings on page 18.

Adjusting air distribution manually

The air distribution can be switched on and off manually. The air is directed to the windshield, to the upper body area and to the footwell.

The automatic air distribution can be switched back on by pressing the AUTO button. The cooling function is switched on automatically and the manual air distribution setting is cleared.

Temperature

Turn to set the desired temperature.

The automatic climate control achieves this temperature as quickly as possible regardless of the season, using maximum cooling or heating power if necessary, and then maintains it.

Avoid rapid switching between different temperature settings. The automatic climate control will not have sufficient time to adjust the set temperature.

Maximum heating power can be obtained with the highest setting, regardless of the outside temperature.

The system cools steadily in the lowest setting, regardless of the outside temperature.

Maximum cooling

Press the button.
The system is set to the lowest temperature, maximum air volume and recirculated-air mode.

Air flows out of the vent outlets for the upper body region. Open them for this purpose.

Air is cooled as quickly as possible:

- Above an outside temperature of approx. 32 °F /0 °C
- When the engine is running

AUTO program

Press the button.
Air volume, air distribution and temperature are controlled automatically.

Depending on the selected temperature, AUTO intensity and outside influences, the air is directed toward the windshield, the side windows, the upper body and the footwell.

Pressing the AUTO button automatically switches on the cooling function.

At the same time, a condensation sensor controls the program so as to prevent window condensation as much as possible.

The program is switched off when the air distribution is set manually or the button is pressed again.

Intensity of the AUTO program

With the AUTO program switched on, automatic control of the air volume and air distribution can be adjusted:

Press the left side of the button to reduce the intensity. Press the right side of the button to increase it.

The selected intensity is shown on the display of the automatic climate control.

Adjusting air volume manually

To be able to manually adjust the air volume, switch off the AUTO program first.

Press the left side of the button to reduce the air volume. Press the right side of the button to increase it.

The air volume may be reduced or the blower may be switched off entirely to save on battery power. The display remains the same.

Automatic recirculated-air control AUC/Recirculated-air mode

You can respond to unpleasant odors or pollutants in the immediate environment by temporarily suspending the supply of outside air. The system then recirculates the air currently within the vehicle.

Press the button repeatedly to select an operating mode:

- LED off: outside air flows in continuously.
- Left-hand LED on, AUC mode: a sensor detects pollutants in the outside air and controls the shut-off automatically.
- Right-hand LED on, recirculated-air mode: the supply of outside air is permanently shut off. If the windows fog over, switch off recirculated-air mode and increase the air volume, if necessary. Make sure that air can flow onto the windshield.

The recirculated-air mode should not be used over an extended period of time; otherwise, the air quality inside the car will deteriorate continuously.◀

Via the button on the steering wheel

You can switch quickly between the recirculated-air mode and the previous mode using a button on the steering wheel, refer to page 11.

ALL program

Press the button.

The current temperature setting on the driver's side is transferred to the front passenger side.

If the temperature setting on the driver's side is changed, the temperature on the front passenger side is changed as well.

The program is switched off when the setting is adjusted on the front passenger side or the button is pressed again.

Defrosting windows and removing condensation

Press the button.

Quickly removes ice and condensation from the windshield and front side windows.

For this purpose, also switch on the cooling function.

Switching cooling function on/off

The passenger compartment can only be cooled while the engine is running.

Press the button.

The air is cooled and dehumidified and – depending on the temperature setting – warmed again.

Depending on the weather, the windshield may fog up briefly when the engine is started.

Pressing the AUTO button automatically switches on the cooling function.

Rear window defroster

Press the button.

The defroster is switched off automatically after a certain time.

Depending on your vehicle's equipment, the upper wires serve as an antenna and are not part of the rear window defroster.

Switching the system on/off

Switching off

With the blower at its lowest setting, press the left side of the button to switch off the automatic climate control.

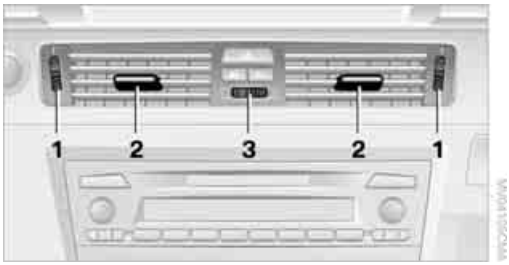
All displays are cleared except for the rear window defroster if it is switched on.

The outside air supply is blocked when the automatic climate control is switched off. If the air quality deteriorates or the window fogs over, switch the system back on and increase the air volume.◀

Switching on

Press any button except the ALL or the rear window defroster button to reactivate the automatic climate control.

Ventilation



1 Use the thumbwheels to smoothly open and close the air vents

2 Use the lever to change the direction of the airflow

3 Thumbwheel for more or less cool air from the vents for the upper body area

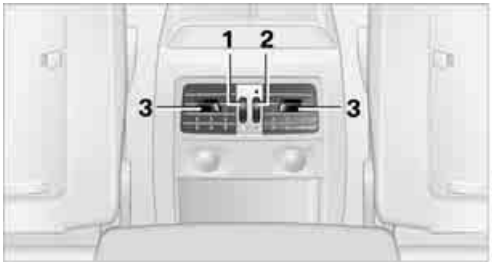
Ventilation for cooling

Adjust the vent outlets to direct the flow of cool air in your direction, for instance if it has become too hot in the car.

Draft-free ventilation

Set the vent outlets so that the air flows past you and not straight at you.

Ventilation in the rear



1 Use the thumbwheel to smoothly open and close the air vents

2 Use the thumbwheel to adjust the temperature:

- ▷ Turn toward blue: colder
- ▷ Turn toward red: warmer

3 Use the lever to change the direction of the airflow

Microfilter/activated-charcoal filter

The microfilter traps dust and pollen in 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 during routine maintenance.

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 devices, such as garage doors and gates or lighting 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**. After this, the programmed memory button **1** will operate the system in question. 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 92.

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 pivoting or travel range of the device being operated. Comply also with the safety instructions supplied with the original hand-held transmitter.◀

Checking compatibility

If this symbol appears on the package or in the instructions supplied with the original hand-held transmitter, you can assume that the radio remote control device will be compatible with the integrated universal remote control.

For additional information, please contact your BMW center or call: 1-800-355-3515.
You can also obtain information on the Internet at:
www.bmwusa.com or
www.homelink.com.

HomeLink is a registered trademark of Johnson Controls, Inc.◀

Programming

1 Memory buttons

2 LED

Fixed-code hand-held transmitters

1. Switch on the ignition, refer to page 46.
2. When starting operation for the first time: press the left and right memory buttons **1** for approx. 20 seconds until the LED **2** flashes rapidly. The three memory buttons are cleared.
3. Hold the original hand-held transmitter at a distance of approx. 4 to 12 in/10 to 30 cm from the memory buttons **1**.

   The required distance between the hand-held transmitter and the memory buttons **1** depends on the system of the respective 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 and repeat this step.
5. To program other original hand-held transmitters, repeat steps 3 and 4.

The corresponding memory button **1** is now programmed with the signal of the original hand-held transmitter.

You can operate the device while the ignition is switched on.

If the device fails to function even 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 and then remains lit for about two seconds, the original hand-held transmitter uses an alternating-code system. If it uses an alternating-code system, program the memory buttons **1** as described under Alternating-code hand-held transmitters.◀

Alternating-code hand-held transmitters

To program the integrated universal remote control, consult the operating instructions for the device 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.

If you have any questions, please contact your BMW center.◀

Deleting all stored programs

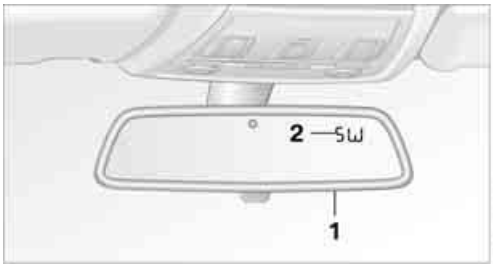
Press the left and right memory buttons **1** for approx. 20 seconds until the LED **2** flashes rapidly: all stored programs are deleted.

Reassigning individual programs

1. Hold the original hand-held transmitter at a distance of approx. 4 to 12 in/10 to 30 cm from the memory buttons **1**.

   The required distance between the hand-held transmitter and the memory buttons **1** depends on the system of the respective original hand-held transmitter used.◀
2. Press the desired memory button **1** of the integrated universal remote control.
3. If the LED **2** flashes slowly after approx. 20 seconds, press the transmit key of the original hand-held transmitter. Release both buttons as soon as the LED **2** flashes rapidly. If the LED **2** does not flash rapidly after approx. 15 seconds, alter the distance and repeat this step.

Digital compass*



1 Adjustment button

2 Display

The display shows you the main or secondary compass direction in which you are driving.

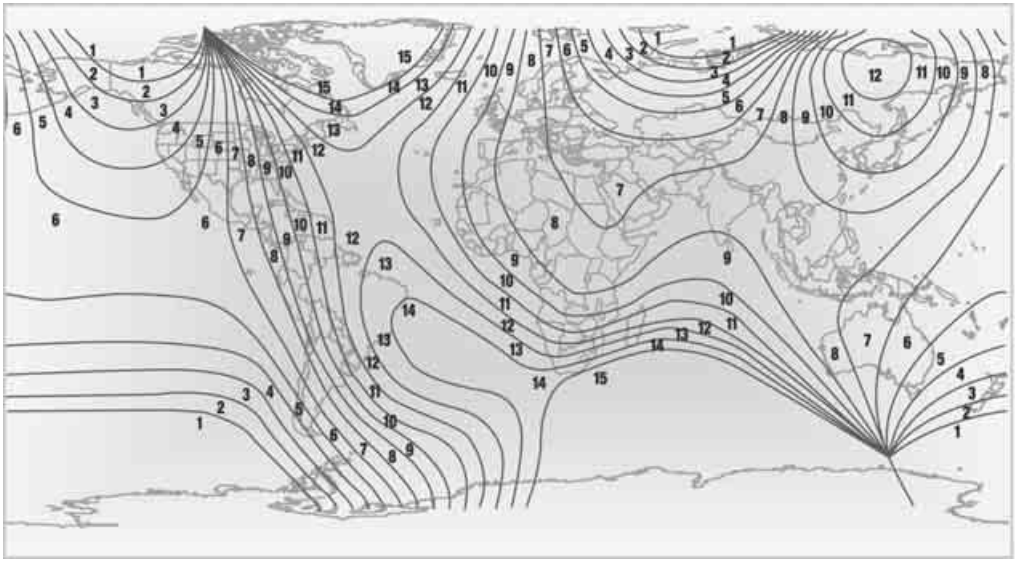
Operating principle

You can call up various functions by pressing the adjustment button with a pointed object such as a pen or similar item. The following adjustment options are displayed one after the other, depending on how long you keep the adjustment button pressed:

- Press briefly: switch display on/off
- 3 to 6 seconds: set compass zone
- 6 to 9 seconds: calibrate compass
- 9 to 12 seconds: set left-hand/right-hand steering
- 12 to 15 seconds: set the language

Setting compass zones

Set the compass zone corresponding to your vehicle's geographic location so that the compass can function correctly; refer to the world map with compass zones.



To set the compass zone, press the adjustment button for approx. 3-4 seconds. The number of the compass zone set is shown in the display.

To change the zone setting, briefly press the adjustment button repeatedly until the display shows the number of the compass zone corresponding to your current location.

The compass is operational again after approx. 10 seconds.

Calibrating the digital compass

The digital compass must be calibrated in the following situations:

- An incorrect compass direction is shown.

- The compass direction shown does not change although the direction of travel does.
- Not all compass directions are shown.

Procedure

1. Make sure that no large metal objects or overhead power lines are in the vicinity of your vehicle and that you have enough space to drive in a circle.
2. Set the currently valid compass zone.
3. Press the adjustment button for approx. 6-7 seconds to call up C. Then drive in at least one full circle at a speed of no more than 4 mph or 7 km/h.
   If calibration is successful, the display changes from C to a compass direction.

Setting right-hand/left-hand steering

Your digital compass is factory-set to right-hand or left-hand steering, in accordance with your vehicle.

Set the language

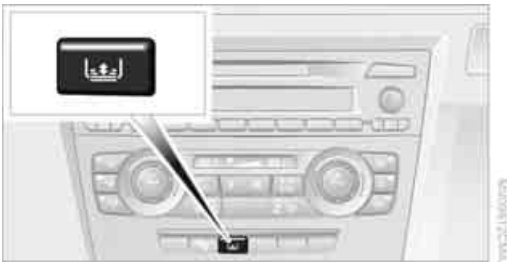
You can set the language of the display:

Press the adjustment button for approx. 12-13 seconds. Briefly press the adjustment button again to switch between English, "E", and German, "O".

The setting is automatically saved after approx. 10 seconds.

Roller sun blinds*

Rear window blind



Tap the button in the center console to raise or lower the roller sun blind.

Roller sun blinds for rear side windows

Pull loop of roller sun blind and hook onto bracket.

Do not open the window when the roller sun blind has been pulled up; otherwise, there is a risk of damage at high speeds that may result in personal injury.◀

Glove compartment

Opening

Pull the handle.
The light in the glove compartment comes on.

To prevent injury in the event of an accident while the vehicle is being driven, close the glove compartment immediately after use.◀

Closing

Fold the cover up.

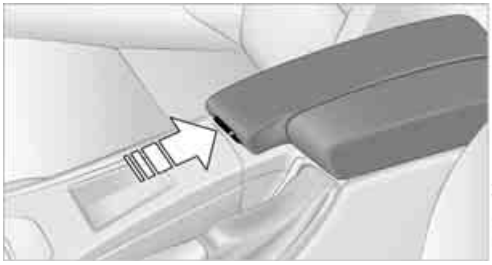
Locking

To lock the glove compartment, use the integrated key of the remote control, refer to page 18.

Center armrest

Storage compartment

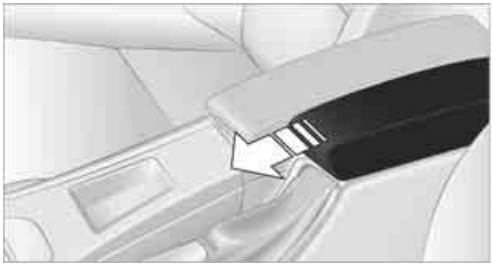
The center armrest between the front seats contains either a compartment or the cover for the snap-in adapter*, depending on the equipment version.



Opening

Press the button, see arrow.

Settings*



Slide the center armrest on the driver's side into the desired position.

Connection for external audio device

You can connect an external audio device such as a CD or MP3 player and play audio tracks over the car's loudspeaker system. You can set the volume and tone by means of the car radio, refer to the separate Owner's Manual for Radio.

Connecting

Lift up the center armrest.

AUX-IN port for audio playback:
TRS connector 1/8 in/3.5 mm

To play audio tracks over the car's loudspeaker system, connect the headset or line-out port of the external device to the connector.

Storage compartments inside the vehicle

Depending on your vehicle's equipment, you will find compartments beside the steering column*, in the front doors and in the center console*.
There are nets* on the front-seat backrests.

Clothes hooks

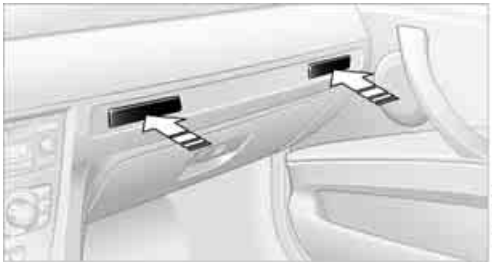
There are clothes hooks on the grab handles in the rear passenger compartment.

Items of clothing hung from the hooks must not obstruct the driver's view. Do not hang heavy objects from the hooks; otherwise, they could endanger the car's occupants, e.g. in case of heavy braking or sudden swerving.◀

Cupholders

Use lightweight and shatterproof containers and do not transport hot beverages; otherwise, there is an increased risk of injury in the event of the accident. Do not force containers that are too large into the cupholders; otherwise, damage could result.◀

Front



Opening

Briefly press the center of the cover.

Closing

Briefly press the cover in the center and push in the cupholder.

Rear

There are two additional cupholders in the rear center armrest.

Press the front of the armrest.

Ashtray*

Opening

Push the ridge on the cover.

Emptying

Lift out the insert.

Lighter

With the engine running or the ignition switched on, press in the cigarette lighter.

The lighter can be pulled out 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.
When leaving the car, always remove the remote control so that children cannot operate the cigarette lighter and burn themselves.◀

Connecting electrical appliances

In your BMW, when the engine is running or the ignition is switched on, you can use electrical devices such as a hand lamp, car vacuum cleaner, etc., up to approx. 200 watts at 12 volts, as long as one of the following sockets is available. Avoid damaging the sockets by attempting to insert plugs of unsuitable shape or size.

Cigarette lighter socket*

To access the socket: take the cigarette lighter out of the socket.

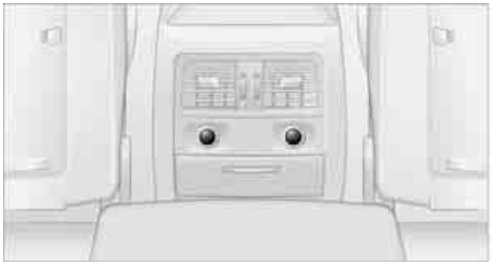
Socket* in the front passenger footwell

A socket is located under the glove compartment on the left.

Socket in the center armrest

External audio device, refer to page 95.

Sockets in the rear center console*



Remove corresponding cover.

Socket in the cargo area*

Sedan

Sports Wagon

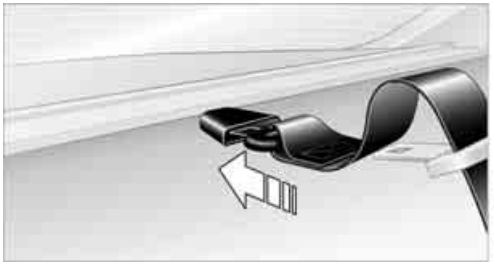
Open the cap.

Sedan: Through-loading system*

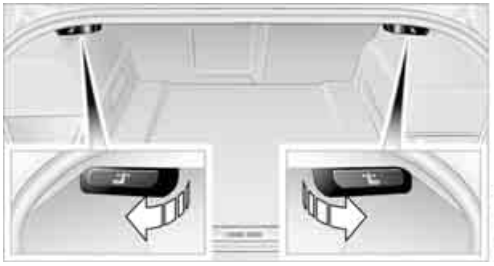
Opening

1. Open the belt lock of the rear center safety belt. To do so, press the red button in the belt lock **2** using the latch plate **1**.

2. Insert the latch plate at the end of the belt into the specially designated fixture on the rear window shelf.



3. Push the corresponding head restraint down as far as it will go, refer to page 36.
4. To release the rear seat backrest, pull the corresponding lever in the cargo area.

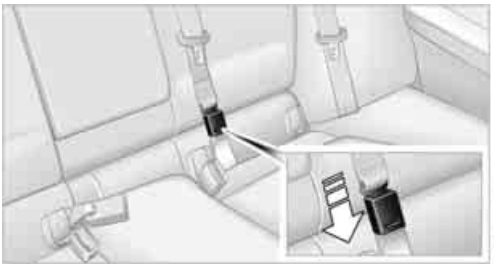


5. The unlocked rear seat backrest moves forward slightly. Fold the backrest forward by the head restraint.

Closing

1. Return the rear seat backrest to its upright position and engage it.

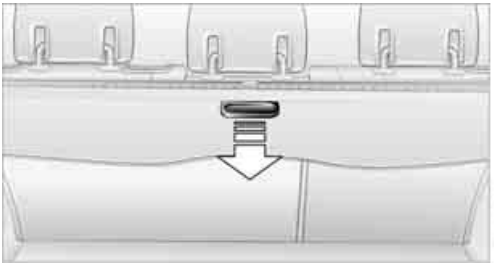
   When returning the backrest to its seating position, make sure that the seat's locking mechanism engages properly. Otherwise, cargo could be thrown around in the event of sharp braking or swerving and endanger the occupants.◀
2. Release the latch plate from the fixture on the rear window shelf and insert it into the belt lock of the center safety belt. Make sure you hear the latch plate engage in the belt buckle.



The lashing eyes in the cargo area provide you with a way to attach cargo area nets* or draw straps for securing suitcases and luggage, refer to page 110.

Sports Wagon: Cargo area

Roller cover



Pull out the cover and hook it into the retaining fixtures.

Do not place objects on the cover; otherwise, they could endanger the car's occupants, e.g. in the case of braking or sudden swerving.
Do not let the cover retract; otherwise, it could be damaged.◀

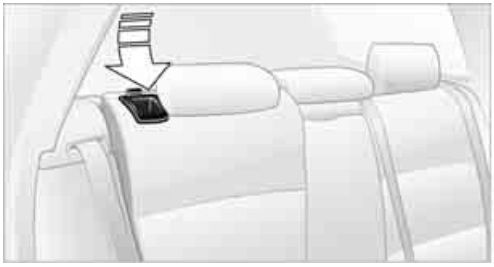
Raising the roller cover

Press the button: the roller cover is raised.

Before closing the rear window or tailgate, press the roller cover downward until it engages.

Expanding the cargo area

The rear seat backrest is divided. You can fold down either division in order to expand the cargo area.

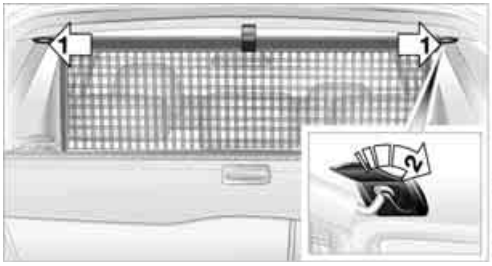


Reach into the recess and pull forwards.

When folding the backrest back up, make sure that the catch engages properly. If you cannot see a red warning area in the recess, the catch is properly engaged. Otherwise, cargo can be thrown around inside the passenger compartment and endanger the car's occupants, e.g. in the case of braking or sudden swerving.◀

Observe the instructions concerning the safety belt on page 33 to ensure the best possible personal protection.◀

Partition net



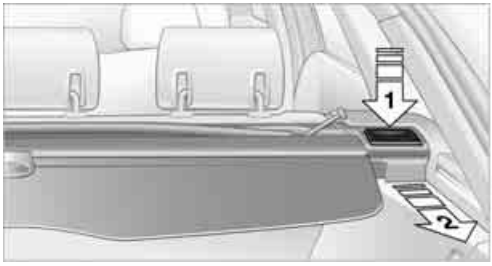
Do not let the partition net retract; otherwise, there is a risk of danger and the partition net could be damaged.◀

Use the loop strap to pull the partition net out of the casing. Grip the bar on both ends and insert it into the retaining fixtures, arrow **1**. This can best be done from the rear seat.

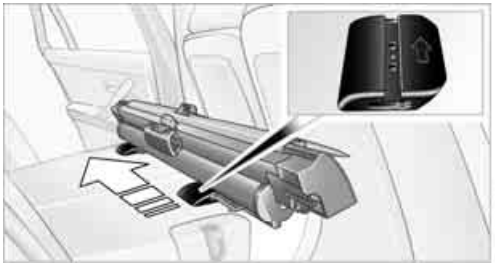
When you no longer require the partition net, grip both ends of the bar and take it out of the retaining fixtures, arrow **2**. Let the partition net slide into the casing slowly.

With cargo area expanded

1. Fold down both rear seat backrests, refer to Expanding the cargo area.
2. Use the buttons to unlatch the casing on both sides, arrow **1**.



3. Pull the casing out backwards, arrow **2**, without tilting it.



4. Slide the casing into the guides on the backs of the seat backrests.
5. Carefully pull out the partition net and insert it into the front retaining fixtures, refer to Partition net above. This can best be done from the front seat.

Follow the same steps in reverse order to return the partition net and seats to their original positions. Finally, slide the casing into both retaining fixtures on the sides until it engages. Tug on the casing to check if it is properly locked in place.

Storage compartments inside the cargo area

Sedan

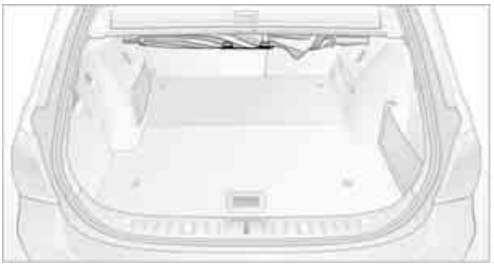
Depending on your vehicle's equipment, the following storage spaces can be found in the cargo area:

- Left storage compartment, e.g. for storing a box of cleaning tissues or up to 12 CD jackets, depending on vehicle equipment version
- Net* for securing smaller objects, to be attached to the fixtures on the floor panel
- Hooks for hanging up, e.g., shopping bags or tote bags
- Rubber strap on the left trim panel for securing small objects such as a folding umbrella
- Net for small objects on the right trim panel of the cargo area
- Folding, removable box* under the floor panel, e.g. for wet or dirty items
- Stowage compartment under the floor panel
- Insertable dividers* and removable storage tray for the storage compartment under the floor panel

Sports Wagon

The following storage spaces can be found in the cargo area:

- Umbrella holder* on the bottom of the partition net casing



- Rubber strap on the left* and right trim panel for securing small objects such as a folding umbrella
- Hooks for hanging up shopping bags or tote bags, for example, on the left and right sides of the cargo area
- Net for small objects on the right trim panel of the cargo area
- Stowage compartment under the floor panel

Depending on your vehicle's equipment, other storage spaces can be found in the cargo area:

- Net* for securing smaller objects, to be attached to the fixtures on the floor panel
- Net* on the left side trim of the cargo area instead of the rubber strap
- Reversible floor panel with integrated plastic cover* for cargo area or bumper
- Folding, removable box* under the floor panel, e.g. for wet or dirty items

▷ Insertable dividers* and removable storage tray for the storage compartment under the floor panel

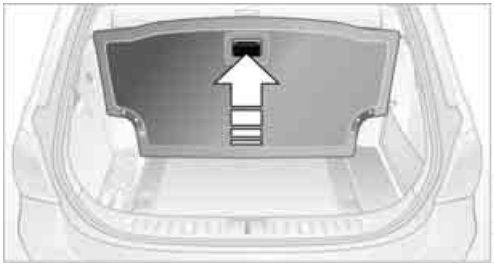
Folding up the floor panel

Do not exceed the maximum permissible load of 55 lbs/25 kg for the storage compartment under the floor panel; otherwise, damage could result.◀

Sedan

Press the floor panel against the ceiling of the cargo area; a locking device holds the floor panel in place. To detach the floor panel, pull it out of the locking device.

Sports Wagon



Fold up the floor panel and take it out or lean it forward.

Lashing eyes

You will find lashing eyelets in the cargo area for securing luggage items with nets or tensioning straps, refer to page 110.

Ski bag*

The ski bag is 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 ft 10 in/2.10 m. When skis of 6 ft 10 in/2.10 m length are loaded, the overall capacity of the ski bag is reduced due to its tapered design.

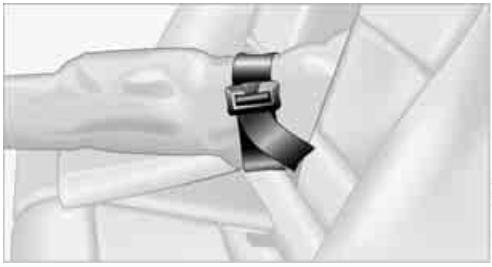
Loading

1. Fold down the center armrest.
2. Press the button, reach into the recess and fold down the cover.

3. Open the Velcro fastener, spread the ski bag between the front seats and insert the skis or snowboards.
   The zip fastener makes objects in the ski bag easier to reach.
4. Insert the latch plate of the ski bag's retaining strap in the center belt buckle.

Only place clean skis in 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.

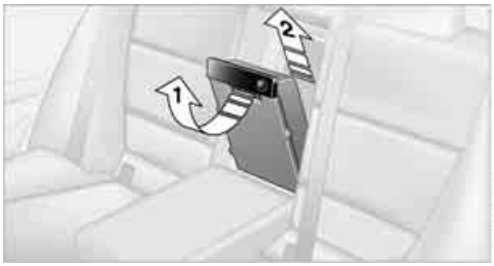
Secure the ski bag in the manner described; otherwise, it could endanger the car's occupants, e.g. in case of heavy braking or sudden swerving.◀

To store the ski bag, perform the steps described for loading in reverse order.

Removing the ski bag

The ski bag can be completely removed, e.g. for faster drying or to allow you to use other inserts.

1. Fold down the center panel in the rear seat backrest.
2. Pull the handle, arrow **1**.



3. Pull out the insert, arrow **2**.

For more information on the various inserts available, contact your BMW center.◀

Driving tips

This section provides you with information useful in dealing with specific driving and operating conditions.

Things to remember when driving

Break-in period

Moving parts need breaking-in time to adjust to each other. Please follow the instructions below in order to achieve the optimal service life and economy of operation for your vehicle.

Engine and differential

Always obey all official speed limits.

Up to 1,200 miles/2,000 km

Drive at varying engine and road speeds but do not exceed:

- Gasoline engine
  4,500 rpm or 100 mph/160 km/h
- Diesel engine
  3,500 rpm or 93 mph/150 km/h

Avoid full-throttle operation and use of the transmission's kickdown mode.

After driving 1,200 miles/2,000 km

Engine and vehicle speeds can be gradually increased.

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 cautiously 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. Drive cautiously during this break-in period.

Clutch

The function of the clutch reaches its optimal level only after a distance driven of approx. 500 km. During this break-in period, engage the clutch gently.

Following part replacement

The same break-in procedures should be observed if any of the components mentioned above have to be renewed in the course of the vehicle's operating life.

Saving fuel

The fuel consumption of your vehicle depends on several factors. You can lower fuel consumption and the environmental impact by taking certain measures, adjusting your driving style and having the vehicle serviced regularly.

Remove any unneeded cargo

Additional weight increases fuel consumption.

Remove any mounted parts after you have finished using them

Remove unneeded additional mirrors, the roof rack and the rear luggage rack after use. Mounted parts affect the vehicle's aerodynamics and increase fuel consumption.

Close the windows and glass roof

An open glass roof or window causes higher air resistance and thus increases fuel consumption.

Check tire inflation pressure regularly

Check the tire inflation pressure at least twice a month and before embarking on a long journey, and correct it if necessary.

Low tire inflation pressure causes higher rolling resistance and thus increases fuel consumption and tire wear.

Set off immediately

Do not let the engine warm up while the car is still standing, but set off immediately at moderate engine speed. This is the fastest way for the cold engine to reach its operating temperature.

Drive defensively

Avoid unnecessary acceleration and braking maneuvers. To do so, keep an adequate distance between you and the vehicle in front of you. A defensive and smooth driving style keeps fuel consumption down.

Avoid high engine speeds

Only use first gear when setting off. In second and higher gears, accelerate without hesitation or pauses. When accelerating, shift up before reaching high engine speeds.

When you reach the desired speed, shift into the highest applicable gear and drive with the engine speed as low as possible and at a constant speed.

As a rule: driving at low engine speeds lowers fuel consumption and reduces wear.

Coasting

When approaching a red light, take your foot off the accelerator and coast to a stop in the highest applicable gear.

On a downhill slope, take your foot off the accelerator and coast in a suitable gear.

The fuel supply is interrupted when coasting.

Switch off the engine during lengthy stops

Switch off the engine when stopping for lengthy periods, e.g. at traffic lights, railroad crossings or in traffic congestions. You achieve fuel savings even if standing time is as short as approx. 4 seconds.

Switch off functions you do not need at the moment

Functions such as the air conditioner, seat heating or rear window defroster draw large amounts of power and consume additional fuel. Especially in city traffic and in stop and go driving they have a considerable impact. Therefore, switch these functions off when they are not really needed.

Have the vehicle serviced

Have the vehicle serviced regularly to achieve good economy and a long vehicle life. BMW recommends having the vehicle serviced at a BMW center. Also note the BMW service system, refer to page 141.

General driving notes

Close the trunk lid/tailgate

Operate the vehicle only when the trunk lid/tailgate and rear window are closed. Otherwise, exhaust fumes could enter the interior of the vehicle.◀

If the vehicle must be driven with the trunk lid/tailgate open:

1. Close all windows and the glass roof.
2. Greatly increase the air volume of the air conditioner or automatic climate control system, refer to page 85 or 88.

Hot exhaust system

In all vehicles, extremely high temperatures are generated in the exhaust system. 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, with the risk of serious personal injuries and property damage. Do not touch hot exhaust tail pipes. Otherwise, there is a risk of burns.◀

Diesel particulate filter*

The diesel particulate filter collects soot particles and burns them periodically at high temperatures. This cleaning process takes several minutes. During cleaning, you may notice that the engine temporarily runs less smoothly and that a somewhat higher engine speed is necessary to achieve the accustomed performance. Also, noises may be heard and a slight amount of smoke may emerge from the exhaust, even

for a short period after the engine is switched off.

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 situation, known as hydroplaning, means that the tire can completely lose contact with the road surface, so that neither the car can be steered nor the brake be properly applied.◀

The risk of hydroplaning increases with declining tread depth on the tires, refer also to Minimum tread depth on page 133.

Driving through water

Drive through water on the road only if it is not 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.◀

Use the parking brake on inclines

On inclines, do not hold the vehicle for a lengthy period using the clutch; use the parking brake instead. Otherwise, greater clutch wear will result.◀

For more information about the drive-off assistant, refer to page 72.

Braking safely

Your BMW is equipped with ABS as a standard feature. Applying the brakes fully is the most effective way of braking in situations in which this is necessary. 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.

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.

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 brake pressure can lead to high temperatures, brake wear and possibly even brake failure.◀

You can increase the engine's braking effect by shifting down, all the way to first gear if necessary. This strategy helps you avoid placing excessive loads on the brake system. Downshifting in manual mode of the automatic transmission, refer to page 49.

Never drive with the clutch held down, with the transmission in neutral or with the engine switched off; otherwise, engine braking action will not be present or there will be no power assistance to the brakes or steering. Never allow floor mats, carpets or any other objects to protrude into the area around the pedals; otherwise, pedal function could be impaired.◀

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 while the automatic climate control is in operation, and then exits under the vehicle. Traces of condensed water under the vehicle are therefore normal.

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. This can ultimately result in a sudden blowout.◀

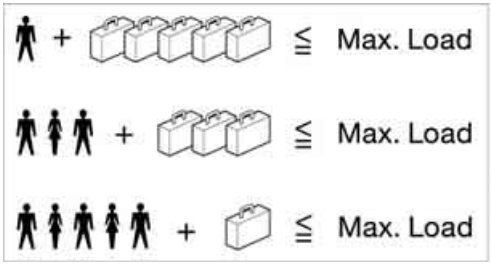
Make sure that no liquids are spilled or leak from their containers in the cargo area, as this could result in damage to the vehicle.◀

Determining loading limit

1. Locate the following statement on your vehicle's placard*:

   The combined weight of occupants and cargo should never exceed XXX kg or YYY lbs. Otherwise, overloading can result in damage to the vehicle and unstable driving 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 kilograms or YYY pounds.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the YYY 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.
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

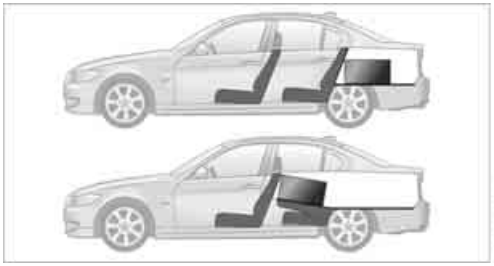


The permissible load is the total of the weight of occupants and cargo/luggage. The greater the weight of the occupants, the less cargo/luggage can be transported.

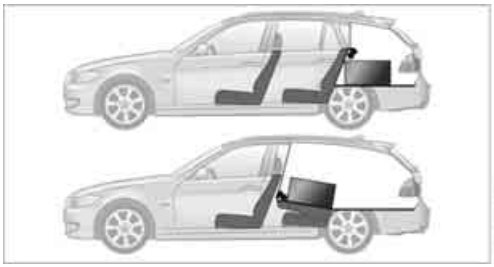
Stowing cargo

- Position heavy objects as low and as far forward as possible, ideally directly behind the respective seat backrests.
- Cover sharp edges and corners.
- For very heavy cargo when the rear seat is not occupied, secure each safety belt in the opposite buckle.

Sedan



Sports Wagon



- Use the partition net to protect passengers, refer to page 99. Make sure that objects cannot penetrate the partition net.
- Do not stack cargo higher than the upper edge of the backrests.
- Place protective material around any objects which could bump against the rear window while the vehicle is in motion.

Securing cargo

- Secure smaller and lighter items using retaining straps, a cargo area net* or draw straps*.
- Heavy-duty cargo straps* for securing larger and heavier objects are available at your BMW center. Four* lashing eyes are provided for attaching the cargo straps. Two are located on the cargo area sidewalls **1**, two more are on the rear cargo area panel **2**.
  Please comply with the information supplied with the cargo straps.

Always position and secure the cargo as described above, so that it cannot endanger the car's occupants, for example if sudden braking or swerving is necessary.
Never exceed either the approved gross vehicle weight or either of the approved axle loads, refer to page 177, as excessive loads can pose a safety hazard, and may also place you in violation of traffic safety laws.
Heavy or hard objects should not be carried loose inside the car, since they could be thrown around, for example as a result of heavy braking, sudden swerves, etc., and endanger the occupants.

Only attach the cargo straps using the lashing eyes shown in the illustration. Do not secure cargo with the anchors for tether straps, refer to page 43; otherwise, these could be damaged.◀

Roof-mounted luggage rack*

A special rack system is available as an option for your BMW. Comply with the directions given in the installation instructions.

Mounting points

The mounting points are located in the roof/ along the roof rails*.

Loading roof-mounted luggage rack

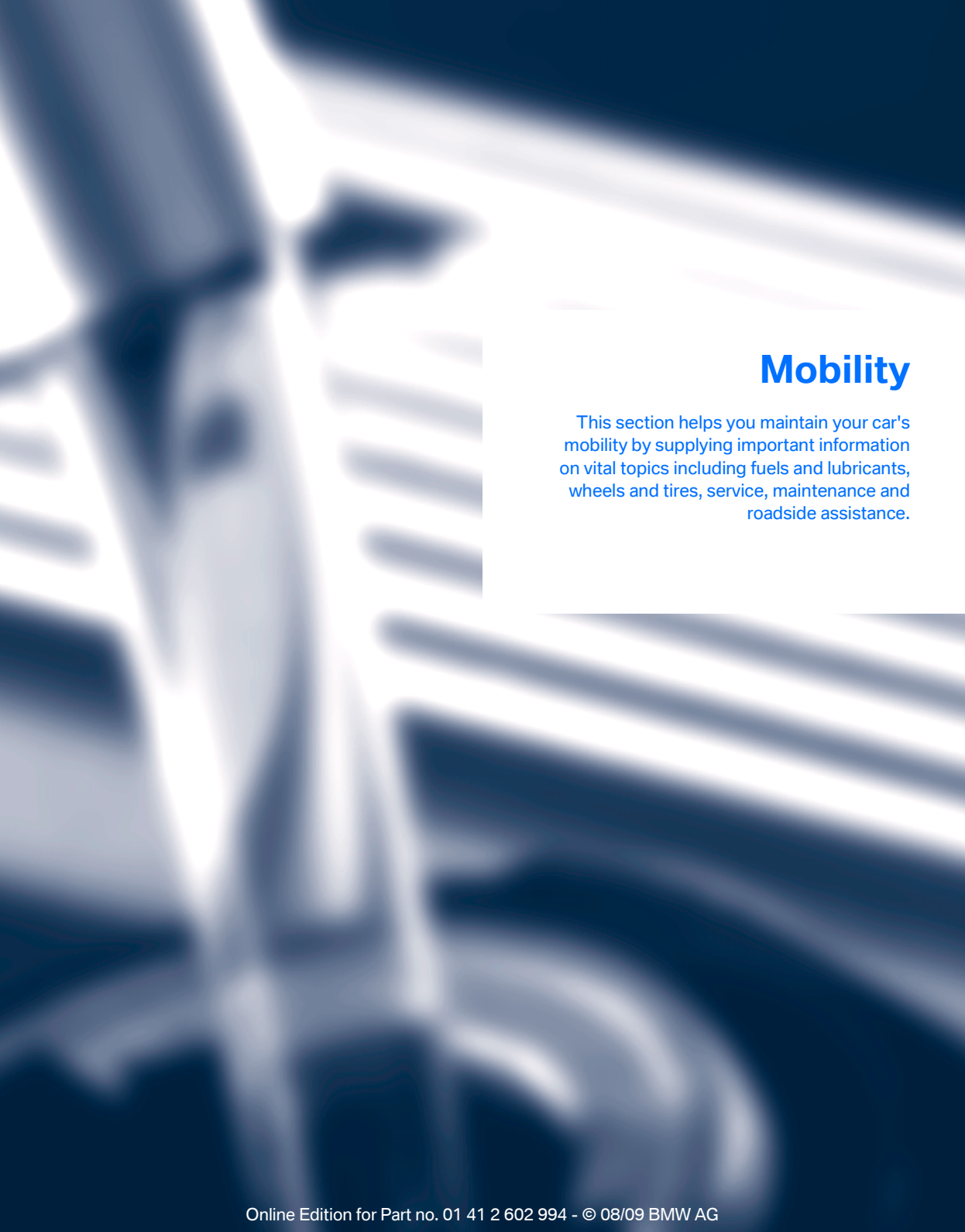
Because roof racks raise the vehicle's center of gravity when loaded, they have a major effect on vehicle handling and steering response.
You should therefore always remember not to exceed the approved roof load capacity, the approved gross vehicle weight or the axle loads when loading the rack.

You can find the applicable data under Weights on page 177.

The roof load must be distributed uniformly and should not be too large in area. Heavy items should always be placed at the bottom. Be sure that adequate clearance is maintained for raising the glass roof, and that objects do not project into the opening path of the trunk lid/ tailgate.

Fasten 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.



Mobility

This section helps you maintain your car's mobility by supplying important information on vital topics including fuels and lubricants, wheels and tires, service, maintenance and roadside assistance.

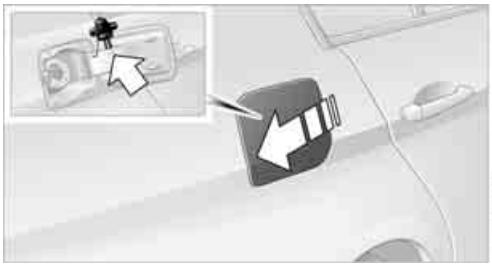
Refueling

Always switch off the engine before refueling; otherwise, fuel cannot be added to the tank and a message will be displayed.◀

Take all precautionary measures and observe all applicable regulations when handling fuel. Do not carry any spare fuel containers in your vehicle. They can develop a leak and cause an explosion or cause a fire in the event of an accident.◀

Fuel filler flap

Opening



1. Open the fuel filler flap. To do so, lightly press the rear edge.
2. Turn the gas cap counterclockwise.
3. Place the gas cap in the bracket attached to the fuel filler flap.

Closing

Fit the cap and turn it clockwise until you clearly hear a click.

Do not pinch the band attached to the cap; otherwise, the cap cannot be closed properly and fuel vapors can escape.◀

Manually releasing the fuel filler flap

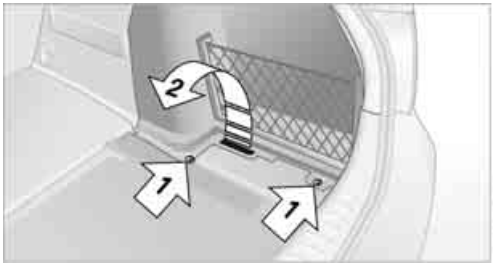
In the event of a malfunction, you can release the fuel filler flap manually:

Sedan

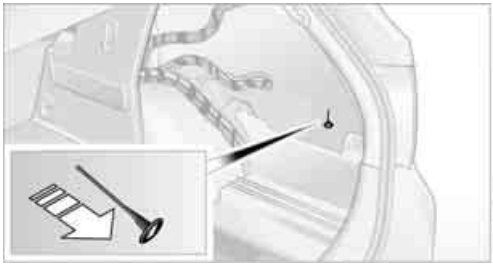
1. Remove the cover from the right-hand sidewall of the cargo area.
2. Pull the knob with the fuel pump symbol. The fuel filler flap is released.

Sports Wagon

1. Fold up the cargo area floor panel.
2. Remove the cover from the right-hand sidewall of the cargo area. To do so, turn the screws, arrows **1**, 90° and take out the cover, arrow **2**.



3. Pull the knob with the fuel pump symbol. The fuel filler flap is released.



Observe the following when refueling

When handling fuels, follow the safety instructions provided at filling stations; otherwise, there is a risk of personal injury or property damage.◀

When refueling, insert the filler nozzle completely into the filler pipe. Avoid lifting the filler nozzle while filling the tank, as that would lead to

- Premature pump shutoff
- 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

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

Gasoline engine

Approx. 16.1 US gallons/61 liters, including the reserve capacity of 2.1 US gallons/8 liters.

Diesel engine

Approx. 16.1 US gallons/61 liters, including the reserve capacity of 1.7 US gallons/6.5 liters.

Fuel specifications

Gasoline engine: required fuel

Do not refuel with leaded fuel; otherwise, the catalytic converter will be damaged. Do not fill the tank with E85, i.e. fuel containing 85% ethanol, nor with FlexFuel. Otherwise, the engine and fuel supply system will be damaged.◀

Super Premium Gasoline/AKI 91

This gasoline is highly recommended.

However, you may also use gasoline with less AKI. The minimum AKI Rating is:

- 323i, 328i/xDrive: 87
- 335i/xDrive: 89.

If you use gasoline with this minimum AKI Rating, the engine may produce knocking sounds when starting at high outside temperatures. This has no effect on the engine life.

Do not use any gasoline below the specified minimum fuel grade. Otherwise, the engine could be 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 cosolvent, 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 such as gasoline that is advertised as Top Tier Detergent Gasoline.
Failure to comply with these recommendations may also result in unscheduled maintenance.◀

BMW Advanced Diesel: required fuel

Ultra-low sulfur diesel

The engine of your BMW is designed for diesel with low sulfur content:
Ultra-low sulfur diesel ASTM D 975-07a.

Refuel with ultra-low sulfur diesel only. The percentage of biodiesel in the fuel must not exceed 5%; this type of fuel is referred to as B5. Do not refuel with gasoline. If you have accidentally refueled with the wrong fuel, e.g. with gasoline, do not start the engine; otherwise, engine damage may occur.◀

If you have refueled with the wrong fuel, contact your BMW center.

The filler neck is designed for refueling at diesel fuel pumps.
If the filler nozzle cannot be inserted into your BMW's filler pipe, please ensure that you are refueling at a diesel fuel pump and that it is equipped with a diesel filler nozzle.◀

In the event the Ultra-Low Sulfur Diesel fuel cannot be fully inserted into the fuel filler neck, please contact BMW Roadside Assistance for instructions on how to add fuel. For more information on BMW Roadside Assistance, refer to page 155.◀

Winter diesel

To ensure that the diesel engine remains operational in the winter, please use winter diesel, which is available at gas stations during winter months. The fuel filter heating system, included as a standard feature, prevents disruption of the fuel supply while driving.

Do not add additives, including gasoline; otherwise, engine damage may occur.◀

BMW recommends BP fuels

BMW Advanced Diesel

The concept

BMW Advanced Diesel reduces nitrogen oxide in the diesel emissions of your vehicle by means of a mechanism that injects diesel exhaust fluid, a reduction agent, into the exhaust tract. A chemical reaction occurs in the catalytic converter that minimizes the nitrogen oxide content.
To be able to start the engine as usual, a sufficient amount of diesel exhaust fluid must be present in a separate reservoir.

Warming the system

To warm the system to its operating temperature after starting with a cold engine, the automatic transmission delays shifting to the next higher gear, if necessary.

Reserve display

A display in the instrument cluster informs you about the remaining distance you can drive with the fluid remaining in the reservoir.

The reserve display appears beginning at approx. 1,000 miles/1,600 km before the supply is used up.

When this reserve display appears in the instrument cluster, have diesel exhaust fluid refilled to avoid not being able to start the engine.◀

Diesel exhaust fluid at the minimum level

Even if the display indicates -- mls, the engine continues running if it is not switched off and if all other requirements continue to be met, e.g. a sufficient supply of fuel.

Do not drive to the end of the indicated distance. Otherwise, it will not be possible to start the engine again after switching it off.◀

Wrong fluid

A warning lamp lights up:
The wrong fluid was filled into the reservoir.

Please contact your BMW center.

Having the diesel exhaust fluid refilled

Diesel exhaust fluid is refilled by your BMW center during regular service. If the service intervals are adhered to, it generally does not need to be refilled between service appointments.

Under certain conditions, e.g. especially frequent accelerations or operation of the vehicle at high altitudes, it may become necessary to refill the fluid between service appointments.

When this reserve display appears in the instrument cluster, have diesel exhaust fluid refilled to avoid not being able to start the engine.

You can have the fluid refilled by a BMW center.

Diesel exhaust fluid at low temperatures

Because of its physical properties, it may be necessary to refill diesel exhaust fluid between regular service appointments at temperatures below +23 °F /-5 °C.
The need to add fluid is indicated by the reserve display in the instrument cluster, refer to page 116.◀

Refilling diesel exhaust fluid in exceptional cases

To be able to reach the next BMW center, you can refill diesel exhaust fluid yourself while adhering to the following warnings.

Do not come into contact with diesel exhaust fluid as it can lead to skin or eye irritations. Wear goggles and gloves, if necessary. Follow the safety instructions on the bottle.
Vapors with a sharp odor can escape from the bottle or container when it is opened. Before refilling, completely close the windows and doors of the vehicle to prevent the vapors from intruding into the interior. If handling diesel exhaust fluid in an enclosed area, ensure that the room is well ventilated.
After handling diesel exhaust fluid, wash your hands thoroughly; otherwise, for example, inadvertently touching your eyes may lead to eye irritations.
If eye irritations occur, rinse the eyes thoroughly with water and consult a physician if necessary.
If diesel exhaust fluid comes into contact with the surface of your vehicle, rinse the affected areas with water to prevent surface damage.
Keep diesel exhaust fluid away from children.◀

Suitable diesel exhaust fluid

- Preferred: BMW Diesel Exhaust Fluid.
  Diesel exhaust fluid can be refilled conveniently with this bottle and its special adapter.
- Alternatively: NOx reduction agent AUS 32

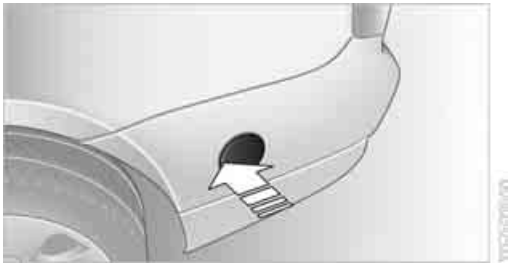
You can obtain diesel exhaust fluid from your BMW center.

Refilling quantity

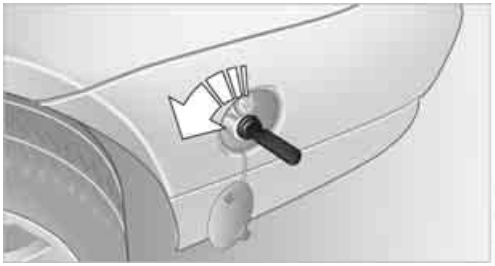
Refilling quantity when the reserve display first appears:
Approx. 1 US gallon/3.7 liters

Opening the diesel exhaust fluid reservoir

1. Remove the cover in the bumper by pressing on it, see arrow.



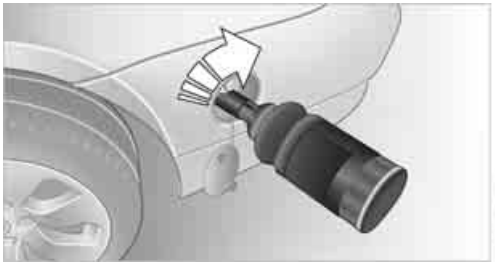
2. Place the handle of the screwdriver from the onboard vehicle tool kit, page 147, onto the bottom cap and open the cap, arrow.



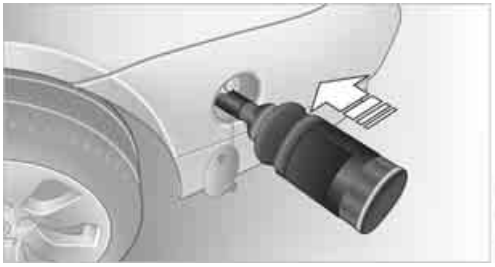
Refilling BMW Diesel Exhaust Fluid

1. Attach the bottle and screw it all the way on, see arrow. The line on the bottle should point upward.

   Hold the attached bottle to prevent the thread on the vehicle from becoming damaged by the weight of the bottle.◀



2. Press the bottle toward the vehicle, see arrow.
   The reservoir in the vehicle is filled.



3. The reservoir is full when the filling level in the bottle stops changing. It is not possible to overfill the reservoir.

   Pull back the bottle, see arrow, and unscrew it.

Closing the reservoir

After refilling, close the reservoir again using the handle of the screwdriver.

After refilling diesel exhaust fluid

Wrong fluid

If you add the wrong fluid, e.g. antifreeze for washer fluid, do not start the engine; otherwise, there is a danger of fire.◀

Contact your BMW center.

Disposing of the bottle

You can dispose of the bottles for diesel exhaust fluid at your BMW center. Only dispose of empty bottles in household refuse if local regulations allow.◀

Reserve display

After refilling, the reserve display continues to be displayed after the engine is started. It goes out after the vehicle has been driven for several minutes.

Wheels and tires

Tire inflation pressures

Information for your safety

It is not merely the tires' 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.

Check the tire inflation pressure regularly and correct it, if necessary: 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 when using 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.◀

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 is higher.

After correcting the tire inflation pressure, reset the Tire Pressure Monitor, refer to page 74, or reinitialize the Flat Tire Monitor, refer to page 72.◀

Inflation pressure specifications

The tables below provide all the correct inflation pressures for the specified tire sizes at ambient temperature.

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.◀

For correct identification of the right tire inflation pressures, observe the following:

- Tire sizes for your vehicle
- Load conditions
- Maximum allowable driving speed

Tire inflation pressures for driving up to 100 mph or 160 km/h

For normal driving up to 100 mph or 160 km/h and to achieve optimum driving comfort, adjust pressures to the respective tire inflation pressures listed on the following pages in the columns for traveling speeds up to a maximum of 100 mph or 160 km/h.

These tire inflation pressures can also be found on the driver's side door post when the driver's door is open.

The maximum permissible speed for these tire pressures is 100 mph or 160 km/h. Do not exceed this speed; otherwise, tire damage and accidents could occur.◀

Tire inflation pressures for driving above 100 mph or 160 km/h

In order to drive at maximum speeds in excess of 100 mph or 160 km/h, adjust pressures to the respective tire inflation pressures listed on the following pages in the columns for traveling speeds including those exceeding 100 mph or 160 km/h. Otherwise, tire damage and accidents could occur.◀

Observe all national and local maximum speed limits; otherwise, violations of the laws could occur.

Sedan: tire inflation pressures for the 323i, for Canada only

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
Without Sport Package:				
205/55 R 16 91 H M+S	32/220	36/250	35/240	42/290
225/50 R 16 92 V 225/50 R 16 92 H M+S	32/220	35/240	32/220	39/270
225/45 R 17 91 H M+S 225/45 R 17 91 V	32/220	38/260	35/240	42/290
225/45 R 17 94 V M+S XL	32/220	39/270	36/250	44/300
Front: 225/45 R 17 91 V	32/220	-	35/240	-
Rear: 255/40 R 17 94 V	-	35/240	-	38/260
Front: 225/40 R 18 88 W	32/220	-	35/240	-
Rear: 255/35 R 18 90 W	-	39/270	-	42/290
Front: 225/35 R 19 88 Y XL	36/250	-	36/250	-
Rear: 255/30 R 19 91 Y XL	-	44/300	-	44/300

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
With Sport Package:				
205/55 R 16 91 H M+S	32/220	36/250	36/250	44/300
225/50 R 16 92 V 225/50 R 16 92 H M+S	32/220	35/240	36/250	44/300
225/45 R 17 91 V 225/45 R 17 91 H M+S	32/220	38/260	41/280	48/330
225/45 R 17 94 V M+S XL	32/220	39/270	42/290	49/340
Front: 225/45 R 17 91 V	32/220	-	41/280	-
Rear: 255/40 R 17 94 V	-	35/240	-	44/300
Front: 225/40 R 18 88 W	32/220	-	39/270	-
Rear: 255/35 R 18 90 W	-	39/270	-	46/320
Front: 225/35 R 19 88 Y XL	36/250	-	39/270	-
Rear: 255/30 R 19 91 Y XL	-	44/300	-	46/320
More details on the permissible load and weights can be found on page 177.				

Sedan: tire inflation pressures for the 328i

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
Without Sport Package:				
205/55 R 16 91 H M+S 225/50 R 16 92 V 225/50 R 16 92 H M+S	32/220	36/250	33/230	41/280
225/45 R 17 91 H M+S 225/45 R 17 91 V	32/220	39/270	36/250	44/300
225/45 R 17 94 V M+S XL	33/230	41/280	38/260	45/310
Front: 225/45 R 17 91 V	32/220	-	36/250	-
Rear: 255/40 R 17 94 V	-	35/240	-	39/270
Front: 225/40 R 18 88 W	33/230	-	36/250	-
Rear: 255/35 R 18 90 W	-	41/280	-	44/300
Front: 225/40 R 18 88 Y	33/230	-	33/230	-
Rear: 255/35 R 18 90 Y	-	41/280	-	41/280
Front: 225/35 R 19 88 Y XL	38/260	-	38/260	-
Rear: 255/30 R 19 91 Y XL	-	45/310	-	45/310

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
With Sport Package:				
205/55 R 16 91 H M+S 225/50 R 16 92 H M+S 225/50 R 16 92 V	32/220	36/250	38/260	45/310
225/45 R 17 91 H M+S 225/45 R 17 91 V	32/220	39/270	38/260	45/310
225/45 R 17 94 V M+S XL	33/230	41/280	44/300	51/350
Front: 225/45 R 17 91 V	32/220	-	38/260	-
Rear: 255/40 R 17 94 V	-	35/240	-	45/310
Front: 225/40 R 18 88 W	33/230	-	41/280	-
Rear: 255/35 R 18 90 W	-	41/280	-	48/330
Front: 225/40 R 18 88 Y	33/230	-	36/250	-
Rear: 255/35 R 18 90 Y	-	41/280	-	44/300
Front: 225/35 R 19 88 Y XL	38/260	-	41/280	-
Rear: 255/30 R 19 91 Y XL	-	45/310	-	48/330
More details on the permissible load and weights can be found on page 177.				

Sedan: tire inflation pressures for the 328xi

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
Without Sport Package:				
205/55 R 16 91 H M+S 225/50 R 16 92 H M+S 225/50 R 16 92 V 225/45 R 17 91 H M+S 225/45 R 17 91 W	32/220	36/250	35/240	41/280
225/45 R 17 94 V M+S XL	32/220	38/260	35/240	42/290
Front: 225/45 R 17 91 V	32/220	-	35/240	-
Rear: 255/40 R 17 94 V	-	33/230	-	38/260
Front: 225/40 R 18 88 W	33/230	-	36/250	-
Rear: 255/35 R 18 90 W	-	38/260	-	41/280
Front: 225/35 R 19 88 Y XL	39/270	-	39/270	-
Rear: 255/30 R 19 91 Y XL	-	42/290	-	42/290
With Sport Package:				
205/55 R 16 91 H M+S 225/50 R 16 92 H M+S 225/45 R 17 91 H M+S	32/220	36/250	35/240	41/280
225/50 R 16 92 V 225/45 R 17 91 W	32/220	36/250	38/260	45/310
225/45 R 17 94 V M+S XL	32/220	38/260	41/280	48/330
Front: 225/45 R 17 91 V	32/220	-	38/260	-
Rear: 255/40 R 17 94 V	-	33/230	-	42/290
Front: 225/40 R 18 88 W	33/230	-	41/280	-
Rear: 255/35 R 18 90 W	-	38/260	-	45/310
Front: 225/35 R 19 88 Y XL	39/270	-	42/290	-
Rear: 255/30 R 19 91 Y XL	-	42/290	-	45/310

More details on the permissible load and weights can be found on page 177.

Sedan: tire inflation pressures for the 335i

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
Without Sport Package:				
225/45 R 17 91 H M+S 225/45 R 17 91 W	35/240	42/290	39/270	46/320
225/45 R 17 94 V M+S XL	36/250	44/300	41/280	48/330
Front: 225/45 R 17 91 V	35/240	-	39/270	-
Rear: 255/40 R 17 94 V	-	38/260	-	42/290
Front: 225/40 R 18 88 W	35/240	-	39/270	-
Rear: 255/35 R 18 90 W	-	42/290	-	46/320
Front: 225/40 R 18 88 Y	35/240	-	35/240	-
Rear: 255/35 R 18 90 Y	-	42/290	-	42/290
Front: 225/35 R 19 88 Y XL	41/280	-	41/280	-
Rear: 255/30 R 19 91 Y XL	-	48/330	-	48/330
With Sport Package:				
225/45 R 17 91 H M+S 225/45 R 17 91 W	35/240	42/290	42/290	49/340
225/45 R 17 94 V M+S XL	36/250	44/300	44/300	51/350
Front: 225/45 R 17 91 V	35/240	-	42/290	-
Rear: 255/40 R 17 94 V	-	38/260	-	46/320
Front: 225/40 R 18 88 W	35/240	-	44/300	-
Rear: 255/35 R 18 90 W	-	42/290	-	51/350
Front: 225/40 R 18 88 Y	35/240	-	39/270	-
Rear: 255/35 R 18 90 Y	-	42/290	-	46/320
Front: 225/35 R 19 88 Y XL	41/280	-	44/300	-
Rear: 255/30 R 19 91 Y XL	-	48/330	-	51/350

More details on the permissible load and weights can be found on page 177.

Sedan: tire inflation pressures for the 335xi

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
Without Sport Package:				
225/45 R 17 91 H M+S 225/45 R 17 91 W	33/230	39/270	36/250	44/300
225/45 R 17 94 V M+S XL	33/230	41/280	38/260	45/310
Front: 225/45 R 17 91 W	33/230	-	36/250	-
Rear: 255/40 R 17 94 W	-	35/240	-	38/260
Front: 225/40 R 18 88 W	36/250	-	39/270	-
Rear: 255/35 R 18 90 W	-	41/280	-	44/300
Front: 225/40 R 18 88 Y	36/250	-	36/250	-
Rear: 255/35 R 18 90 Y	-	41/280	-	41/280
Front: 225/35 R 19 88 Y XL	42/290	-	42/290	-
Rear: 255/30 R 19 91 Y XL	-	45/310	-	45/310
With Sport Package:				
225/45 R 17 91 H M+S	33/230	39/270	36/250	44/300
225/45 R 17 94 V M+S XL	33/230	41/280	42/290	49/340
225/45 R 17 91 W	33/230	39/270	39/270	46/320
Front: 225/45 R 17 91 W	33/230	-	39/270	-
Rear: 255/40 R 17 94 W	-	35/240	-	42/290
Front: 225/40 R 18 88 W	36/250	-	44/300	-
Rear: 255/35 R 18 90 W	-	41/280	-	48/330
Front: 225/40 R 18 88 Y	36/250	-	39/270	-
Rear: 255/35 R 18 90 Y	-	41/280	-	44/300
Front: 225/35 R 19 88 Y XL	42/290	-	45/310	-
Rear: 255/30 R 19 91 Y XL	-	45/310	-	49/340

More details on the permissible load and weights can be found on page 177.

Sedan: tire inflation pressures for the 335d

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
Without Sport Package:				
225/45 R 17 91 H M+S 225/45 R 17 91 W	33/230	41/280	39/270	46/320
225/45 R 17 94 V M+S XL	35/240	42/290	39/270	46/320
Front: 225/45 R 17 91 V	33/230	-	39/270	-
Rear: 255/40 R 17 94 V	-	36/250	-	41/280
Front: 225/40 R 18 88 W	35/240	-	39/270	-
Rear: 255/35 R 18 90 W	-	41/280	-	45/310
Front: 225/40 R 18 88 Y	35/240	-	35/240	-
Rear: 255/35 R 18 90 Y	-	41/280	-	41/280
Front: 225/35 R 19 88 Y XL	41/280	-	41/280	-
Rear: 255/30 R 19 91 Y XL	-	46/320	-	46/320
With Sport Package:				
225/45 R 17 91 H M+S 225/45 R 17 91 W	33/230	41/280	41/280	48/330
225/45 R 17 94 V M+S XL	35/240	42/290	42/290	49/340
Front: 225/45 R 17 91 V	33/230	-	41/280	-
Rear: 255/40 R 17 94 V	-	36/250	-	45/310
Front: 225/40 R 18 88 W	35/240	-	42/290	-
Rear: 255/35 R 18 90 W	-	41/280	-	49/340
Front: 225/40 R 18 88 Y	35/240	-	38/260	-
Rear: 255/35 R 18 90 Y	-	41/280	-	45/310
Front: 225/35 R 19 88 Y XL	41/280	-	44/300	-
Rear: 255/30 R 19 91 Y XL	-	46/320	-	49/340

More details on the permissible load and weights can be found on page 177.

Sports Wagon: tire inflation pressures for the 328i

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
Without Sport Package:				
225/50 R 16 92 H M+S 225/50 R 16 92 W	32/220	39/270	36/250	44/300
205/55 R 16 91 H M+S	32/220	39/270	39/270	46/320
225/45 R 17 91 H M+S 225/45 R 17 91 W	33/230	41/280	39/270	46/320
225/45 R 17 94 V M+S XL	35/240	42/290	41/280	48/330
Front: 225/45 R 17 91 V	33/230	-	39/270	-
Rear: 255/40 R 17 94 V	-	36/250	-	42/290
Front: 225/40 R 18 88 W	36/250	-	39/270	-
Rear: 255/35 R 18 90 W	-	44/300	-	46/320
Front: 225/40 R 18 88 Y	36/250	-	36/250	-
Rear: 255/35 R 18 90 Y	-	44/300	-	44/300
Front: 225/35 R 19 88 Y XL	36/250	-	41/280	-
Rear: 255/30 R 19 91 Y XL	-	44/300	-	48/330

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
With Sport Package:				
205/55 R 16 91 H M+S 225/50 R 16 92 H M+S 225/50 R 16 92 W	32/220	39/270	39/270	46/320
225/45 R 17 91 H M+S 225/45 R 17 91 W	33/230	41/280	42/290	49/340
225/45 R 17 94 V M+S XL	35/240	42/290	42/290	49/340
Front: 225/45 R 17 91 V	33/230	-	42/290	-
Rear: 255/40 R 17 94 V	-	36/250	-	46/320
Front: 225/40 R 18 88 W	36/250	-	44/300	-
Rear: 255/35 R 18 90 W	-	44/300	-	51/350
Front: 225/40 R 18 88 Y	36/250	-	39/270	-
Rear: 255/35 R 18 90 Y	-	44/300	-	46/320
Front: 225/35 R 19 88 Y XL	36/250	-	42/290	-
Rear: 255/30 R 19 91 Y XL	-	44/300	-	49/340
More details on the permissible load and weights can be found on page 177.				

Sports Wagon: tire inflation pressures for the 328xi

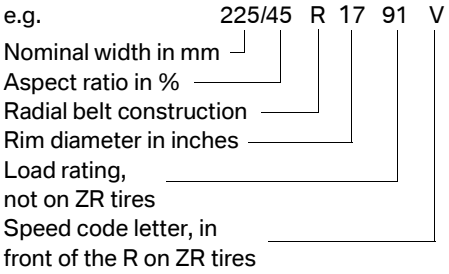
Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
Without Sport Package:				
205/55 R 16 91 H M+S 225/50 R 16 92 H M+S 225/50 R 16 92 W	32/220	39/270	36/250	44/300
225/45 R 17 91 H M+S 225/45 R 17 91 W	33/230	41/280	38/260	45/310
225/45 R 17 94 V M+S XL	35/240	42/290	39/270	46/320
Front: 225/45 R 17 91 V	33/230	-	38/260	-
Rear: 255/40 R 17 94 V	-	36/250	-	41/280
Front: 225/40 R 18 88 W	36/250	-	39/270	-
Rear: 255/35 R 18 90 W	-	42/290	-	46/320
Front: 225/40 R 18 88 Y	36/250	-	36/250	-
Rear: 255/35 R 18 90 Y	-	42/290	-	42/290
Front: 225/35 R 19 88 Y XL	39/270	-	39/270	-
Rear: 255/30 R 19 91 Y XL	-	46/320	-	46/320

Tire size	Pressure specifications in psi/kPa			
	Traveling speeds up to a max. of 100 mph / 160 km/h		Traveling speeds including those exceeding 100 mph / 160 km/h	
All pressure specifications in the table are indicated in psi/kilopascal with cold tires. Cold = ambient temperature				
With Sport Package:				
205/55 R 16 91 H M+S 225/50 R 16 92 H M+S 225/50 R 16 92 W	32/220	39/270	38/260	45/310
225/45 R 17 91 H M+S 225/45 R 17 91 W	33/230	41/280	41/280	48/330
225/45 R 17 94 V M+S XL	35/240	42/290	42/290	49/340
Front: 225/45 R 17 91 V	33/230	-	41/280	-
Rear: 255/40 R 17 94 V	-	36/250	-	45/310
Front: 225/40 R 18 88 W	36/250	-	42/290	-
Rear: 255/35 R 18 90 W	-	42/290	-	49/340
Front: 225/40 R 18 88 Y	36/250	-	38/260	-
Rear: 255/35 R 18 90 Y	-	42/290	-	45/310
Front: 225/35 R 19 88 Y XL	39/270	-	42/290	-
Rear: 255/30 R 19 91 Y XL	-	46/320	-	49/340
More details on the permissible load and weights can be found on page 177.				

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



Speed code letter

Q = up to 100 mph or 160 km/h

T = up to 118 mph or 190 km/h

H = up to 131 mph or 210 km/h

V = up to 150 mph or 240 km/h

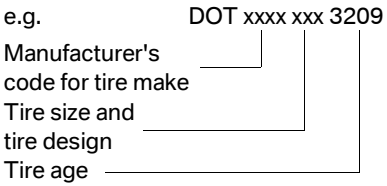
W = up to 167 mph or 270 km/h

Y = up to 186 mph or 300 km/h

Tire Identification Number

Tires with DOT codes meet the guidelines of the US Department of Transportation.

DOT code:



Tire age

The manufacturing date of tires is contained in the tire coding: DOT ... 3209 means that the tire was manufactured in week 32 of 2009.

BMW recommends that you replace all tires after 6 years at most, even if some tires may last for 10 years.

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 134.

M+S

Winter and all-season tires.
These have better winter properties than summer tires.

XL

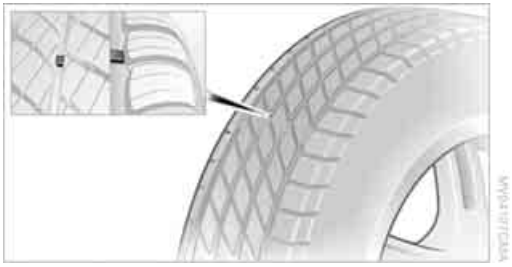
Designation for specially reinforced tires.

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 1/8 in/3 mm, although, for example, European legislation only specifies a minimum tread depth of 1/16 in/1.6 mm. At tread depths below 1/8 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 1/6 in/4 mm, they become perceptibly less suitable for winter conditions. In the interest of safety, new tires should be installed.



Wear indicators in the base of the tread groove are distributed around the tire's circumference; the letters TWI, for Tread Wear Indicator, on the tire's sidewalls identify tires that incorporate these wear indicators. Once the tire tread has worn down to the wear indicators, the tire has worn to a depth of 1/16 in/1.6 mm.

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. The same applies to any other abnormal road behavior, such as pulling severely to the right or left.

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.
Otherwise, tire damage can pose a lethal hazard to vehicle occupants and other road users.◀

Tire age

For various reasons, such as the development of brittleness, BMW recommends tire replacement after no more than 6 years, regardless of the actual wear of the tires.

The manufacturing date of tires is contained in the tire coding:
DOT ... 3209 means that the tire was manufactured in week 32 of 2009.

Run-flat tires

The symbol identifying run-flat tires is a circle with the letters RSC on the sidewall.
Run-flat tires comprise a conditionally self-supporting tire and a special rim. The reinforcement in the sidewalls ensures that the tire can continue to be used subject to certain restrictions, even if depressurized.

For information on continuing to drive with a flat tire, refer to Indication of a flat tire, page 73.

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. Make sure that the new wheels are balanced.◀

Retreaded tires

BMW recommends that you do not use retreaded tires, since driving safety may be impaired. The causes for this include potentially different tire casing structures and often wide variations in tire age, which can result in a limited service life.◀

Correct wheels and tires

When mounting new tires or changing over from summer to winter tires and vice versa, mount run-flat tires for your own safety. In the event of a flat, no spare wheel is available. Your BMW center will be glad to advise you.

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, which could lead to body contact and thus to severe accidents. If non-approved wheels and tires are used, BMW cannot evaluate their suitability, and therefore cannot guarantee their driving safety.◀

You can inquire about the right wheel/tire combination at your BMW center.

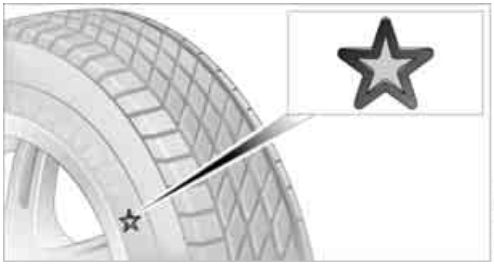
The correct combination of wheels and tires is also necessary to ensure reliable operation of various vehicle systems such as ABS, DSC or FTM.

To maintain good handling and vehicle response, use only tires of a single brand and tread configuration. After a tire has been damaged, mount the previous wheel and tire combination again as soon as possible.

Wheels with Tire Pressure Monitor TPM electronics

When mounting new tires or changing over from summer to winter tires, or vice versa, only use wheels with TPM electronics; otherwise, the Tire Pressure Monitor may not be able to detect a puncture, refer to page 73. Your BMW center will be glad to advise you.

Recommended tire brands



Certain makes of tire are recommended by BMW for each tire size. They are marked with a clearly visible BMW designation on the sidewall of the tire.

When properly used, these tires meet the highest standards in terms of safety and handling characteristics.

Special characteristics of winter tires

BMW recommends winter tires for winter roads or at temperatures below +45°F/+7 °C. 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

Always comply with the speed limit for the winter tires mounted on your car; failure to do so could result in tire damage and accidents.◀

If the car is capable of speeds higher than that permitted for the winter tires, a label stating the maximum permitted speed for the mounted tires must be displayed in your field of view. Specialist tire dealers and your BMW center can supply these labels.

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 sidewall of the tire.

Swapping wheels between axles

BMW advises against swapping wheels between the front and rear axles, even if all tires have the same size, as this could impair driving characteristics. If the tires are of mixed sizes, swapping wheels between the axles is not permissible.

Snow chains*

Only certain fine-link snow chains have been tested by BMW, classified as safe for use and recommended. Consult your BMW center for more information.
Snow chains must be mounted in pairs and on the rear wheels only. Observe the manufacturer's instructions when mounting snow chains. Do not exceed a speed of 30 mph or 50 km/h.

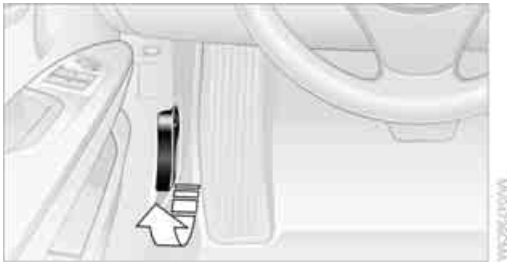
Do not initialize the Flat Tire Monitor if snow chains are mounted; otherwise, the instrument might issue an incorrect reading. When driving with snow chains, you may find it helpful to activate DTC temporarily, refer to page 70.◀

Under the hood

Do not work on the car unless you possess the necessary technical knowledge. If you are unfamiliar with the statutory guidelines, have any work on the vehicle performed only by a BMW center or by a workshop that work 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



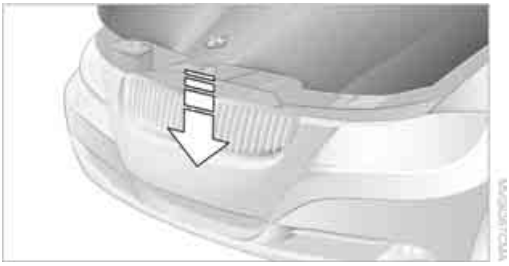
Pull the lever.

Opening

In order to avoid damage, make sure that the wiper arms are against the windshield before you open the hood. Do not open the engine hood before the engine has cooled down; otherwise, injuries may result.◀

Press the release handle and open the hood.

Closing

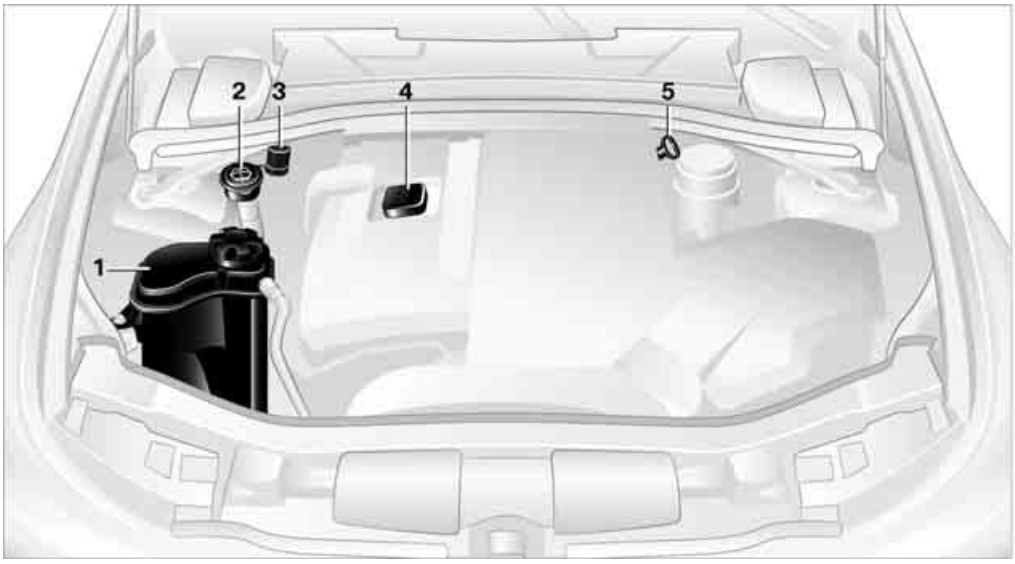


Let the hood drop from a height of approx. 10 in/ 25 cm. It must be clearly heard to engage.

Make sure that the closing path of the hood is clear; otherwise, injuries may result.

If you see any signs while driving your vehicle that the hood is not completely closed, stop at once and close it securely.◀

Important parts of the engine compartment



1 Gasoline engine: expansion tank for coolant, refer to page 139

Diesel engine: the expansion tank is located on the other side of the vehicle

2 Washer fluid filler neck for headlamp cleaning system and window washer system, refer to page 52

3 Jump-starting connection, refer to page 156

4 Filler neck for engine oil, refer to Adding engine oil

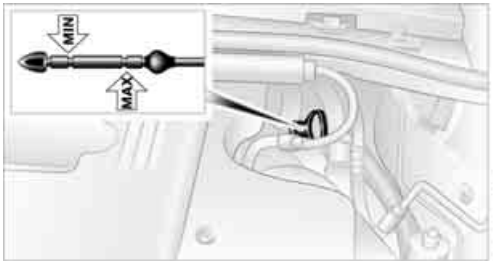
5 Dipstick for engine oil, refer to Checking oil level

Engine oil

The engine oil consumption is dependent on driving style and driving conditions.

Checking the engine oil level with the dipstick*

1. Park the vehicle on a level surface with the engine at operating temperature, i.e. after an uninterrupted drive of at least 6.5 miles/ 10 km.
2. Switch off the engine.
3. After approx. 5 minutes, pull out the dipstick **5** and wipe it off with a lint-free cloth, paper towel or similar material.
4. Carefully push the dipstick all the way back into the measuring tube and pull it out again.
   The oil level must be between the two markings on the dipstick.



The oil quantity between the two markings on the dipstick is equivalent to approx. 1 US quart/ 1 liter.

The oil level must not be above the upper marking of the dipstick. Too much oil will harm the engine.◀

Checking the engine oil level electronically*

Your car is equipped with an electronic oil-level monitor.

For a precise measurement and display of the oil level, it is necessary that the engine be at operating temperature, i.e. after uninterrupted driving for at least approx. 6.5 miles/10 km. You can have the oil level displayed while you are driving, or while the vehicle is at a standstill on a level surface and the engine is running.

You can have the oil level reading displayed in the instrument cluster.

1. Push button **1** in the turn indicator lever up or down repeatedly until the appropriate symbol is shown in the display, accompanied by the word "OIL".
2. Press button **2** in the turn indicator lever. The oil level is checked and the reading displayed.

Possible displays

1 Oil level OK

2 Oil level is being checked.
This can take about 3 minutes if the car is at a standstill on a level surface, or about 5 minutes while the car is on the move.

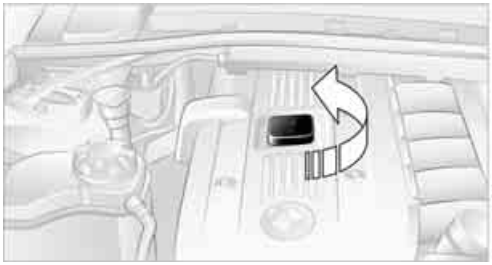
3 Oil level down to minimum:
Add engine oil as soon as possible, but no more than 1 US quart/1 liter, refer also to Adding engine oil on page 139.

4 Oil level is too high.

Too much oil will harm the engine. Have the vehicle checked without delay.◀

5 The oil level sensor is defective.
Do not add engine oil. You can continue your journey. Note the newly calculated distance remaining to the next oil service, refer to page 65. Have the system checked as soon as possible.

Adding engine oil



Add a maximum of 1 US quart/1 liter of engine oil no earlier than when the following warning lamp lights up in the instrument cluster, or, if the car has a gasoline engine, when the oil level monitor shows "+1qt" or "+1l", or, if the car has a diesel engine, when the oil level has dropped to just above the lower marking on the dipstick, refer to page 137.

Add oil within the next 125 miles/200 km; otherwise, the engine could be damaged.◀

Keep oils, greases, etc. out of the reach of children and comply with the relevant warnings on the containers. Otherwise, health hazards may result.◀

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.

Oil types

Do not use oil additives as this could result in engine damage.◀

Specified engine oils

Your service center can advise you on which engine oils have been approved by the manufacturer of your vehicle.

The engine oil quality is critical for the life of the engine.

Approved oils can be identified by the following specification:

Gasoline engine	
Preferred:	BMW Longlife-01 BMW Longlife-01 FE
Alternatively:	BMW Longlife-98

Diesel engine	
Preferred:	BMW Longlife-04

Approved oils belong to the following viscosity classes: SAE 0W-40, SAE 0W-30, SAE 5W-40 and SAE 5W-30.

Alternative oil types

If the approved engine oils are not available, up to 1 US quart/1 liter of another oil with the following specification may be used:

API SM or higher

BMW recommends Castrol

Coolant

Do not add coolant to the cooling system when the engine is hot. Escaping coolant can cause burns.◀

Coolant consists of half water and half additive. Not all commercially available additives are suitable for your BMW. Ask your BMW center for suitable additives.

Only use suitable additives; otherwise, engine damage may result. Because additives are harmful to your health, it is important to follow the instructions on the containers.◀

Comply with the appropriate environmental protection regulations when disposing of coolant additives.◀

Checking coolant level

1. Do not open the engine hood before the engine has cooled down.
2. Turn the cap of the expansion tank a little counterclockwise to allow any accumulated pressure to escape, then continue turning to open.
3. The coolant level is correct if it is between the maximum and minimum marks in the filler neck, refer also to the diagram next 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.

Maintenance

BMW Maintenance System

The BMW Maintenance System supports the preservation of the traffic and operating safety of your BMW. The objective is to optimize efforts with respect to minimal vehicle maintenance costs.

If and when you come to sell your BMW, a comprehensive record of servicing will prove a significant benefit.

Condition Based Service CBS

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.

In the instrument cluster, you can have the remaining times or distances for selected maintenance tasks and any legally prescribed dates displayed, refer to page 65:

- Engine oil
- Brake pads: separately for front and rear
- Brake fluid
- Vehicle check
- Legally mandated inspections depending on local regulations
- Diesel particulate filter*

Service data in the remote control

Your vehicle continuously stores service-requirement information in the remote control while you are driving. Your BMW Service Advisor can read out this data from the remote control unit, and propose an optimized maintenance approach. Whenever you take your car in for servicing you should therefore hand your BMW Service Advisor the remote control unit that you last used.

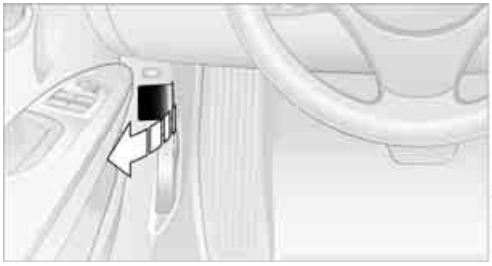
Make sure that the date in the instrument cluster is always set correctly, refer to page 67; otherwise, the effectiveness of Condition Based Service CBS is not assured.◀

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.◀

Socket for Onboard Diagnosis OBD



On the driver's side is an OBD socket for checking components relevant to the composition of the vehicle's emissions.

Emissions

SERVICE ENGINE SOON The warning lamp lights up: The vehicle is producing higher emissions. The trip can be continued. Have the car checked as soon as possible.

Canadian models display this warning lamp.

The lamp flashes under certain conditions. This indicates excessive misfiring in the engine. If this happens, you should reduce your speed and visit your nearest BMW center as soon as possible. Severe engine misfiring can quickly lead to serious damage of emissions-related components, especially the catalytic converter.

The warning lamp comes on if the gas cap is not properly tightened and the OBD system assumes that fuel vapor is escaping. Make sure that the gas cap is correctly positioned and close it until it audibly clicks.

Data recorders

Your vehicle may be equipped with one or several measuring or diagnostic modules or a device for recording or sending certain vehicle data or information. In addition, if you have signed a service contract for BMW Assist, certain vehicle data may be transmitted or recorded in order to facilitate the corresponding services.

Care

Care products

Regular cleaning and care contributes significantly to the value retention of your BMW.

BMW recommends cleaning and caring for your vehicle with products that are approved by BMW for this purpose.

Your BMW center will be happy to advise you on the products and services available for cleaning and caring for your BMW.

Original BMW Care Products have been material tested, laboratory checked and proven in the field, and offer optimal care and protection for your vehicle.◀

Do not use cleaners that contain alcohol or solvents as these may result in damage.◀

Cleaning agents can contain substances that are dangerous or hazardous to your health. Therefore, follow the warning and safety instructions on the packaging. When cleaning inside the vehicle, always open the doors or windows of the vehicle. In enclosed areas, provide for sufficient ventilation. Only use products designed for cleaning vehicles.◀

Exterior care

Washing the vehicle

Especially during the winter months, ensure that the vehicle is washed more frequently. Heavy soiling and road salt can lead to vehicle damage.◀

After washing the vehicle, apply the brakes briefly to dry them; otherwise, water can reduce braking efficiency over the short term and the brake discs can corrode.◀

Automatic car washes

Preference should be given to cloth car washes.

Before driving into a car wash, ensure that it is suitable for your BMW. Check the following:

- Dimensions of your vehicle, refer to page 175.
- If necessary: fold in the exterior mirrors, refer to page 39.
- Maximum permissible tire width.

Avoid car washes with guide rail heights over 4 in/10 cm; otherwise, there is the danger of damaging chassis parts.◀

Preparations before driving into an automatic car wash:

- Unscrew the rod antenna*.
- Deactivate the rain sensor* to prevent unintentional wiping.
- Sports Wagon: deactivate the rear window wiper and protect it against damage. If necessary, ask the operator of the car wash about protective measures you should take.
- Remove additional add-on parts, e.g. spoilers or phone antennas, if they could be damaged.

Automatic transmission

Before driving into an automatic car wash, perform the following steps to ensure that the vehicle can roll:

1. Insert the remote control into the ignition lock, even with Comfort Access.
2. Move the selector lever to position N.
3. Release the parking brake.
4. Switch off the engine.
5. Leave the remote control in the ignition lock so that the vehicle can roll.

Steam jets/high-pressure washers

When using steam jets or high-pressure washers, ensure that you maintain sufficient clearance to the vehicle and do not exceed a temperature of 140 °F /60 °C.
Insufficient clearance or excessive pressure or temperature can lead to component damage or

water penetration. Follow the operating instructions of the high-pressure washer.◀

When using high-pressure washers, do not spray against the sensors and cameras, e.g. of the Park Distance Control or Rear View Camera, for an extended period and maintain a distance of at least 1 ft/30 cm.◀

Manual car wash

When washing the vehicle by hand, use large quantities of water and car shampoo if necessary. Clean the vehicle with a sponge or washing brush, applying light pressure only.

Before cleaning the windshield, deactivate the rain sensor or switch off the ignition to prevent unintentional activation of the wipers.◀

Observe local regulations pertaining to washing vehicles by hand.◀

Headlamps

Do not rub them dry and do not use abrasive or corrosive cleaning agents.

Loosen dirt, e.g. insects, with shampoo or insect remover and wash away with copious quantities of water.

Thaw ice with a windshield deicer and do not use an ice scraper.

Windows

Clean the inside and outside surfaces of the windows and the mirrors with window cleaner.

Do not clean the mirrors with cleaners containing quartz.◀

Paintwork care

Regular care contributes to value retention and protects the paintwork against the long-term effects of damaging substances.

Region-specific environmental influences can damage the vehicle paintwork. Therefore, it is important to adapt the frequency and scope of car care accordingly.

Immediately remove aggressive materials such as spilled fuel, oil, grease, brake fluid, tree sap or bird droppings to prevent damage to the paintwork.

Repairing paintwork damage

Immediately repair scratches or similar damage, such as that caused by stones hitting the vehicle, where necessary to prevent rusting.◀

BMW recommends having paintwork damage repaired by a professional paint repair workshop according to BMW specifications using original BMW paint materials.

Preservation

A preservation treatment is necessary when water no longer beads off the clean paintwork surface. Only use products for paintwork preservation that contain carnauba or synthetic waxes.

Rubber seals

Treat only with water or rubber care products.

Do not use silicon-containing care products on rubber seals; otherwise, noise and damage could occur.◀

Chrome parts

Carefully clean vehicle parts such as the radiator grill, door handles or window frames with copious quantities of water and a shampoo additive, especially when roads are treated with deicing salt. For additional treatment, use a chrome polish.

Light-alloy wheels

For technical reasons, dust is generated during braking that is deposited on the light-alloy wheels. Remove the dust regularly using acid-free rim cleaner.

Do not use aggressive, acidic, strongly alkaline and abrasive cleaning agents or steam jets over 140 °F /60 °C; otherwise, damage may occur.◀

Outside sensors/cameras

Keep the sensors and cameras on the outside of the vehicle, e.g. those for Park Distance Control, clean and free of ice to ensure that they remain fully functional.◀

Interior care

Upholstery fabrics/cloth trims/ Alcantara fabrics

Vacuum regularly with a vacuum cleaner to remove superficial dirt.

To remove severe spots such as stains from beverages, use a soft sponge or lint-free microfiber cloth and suitable interior cleaners. Follow the instructions on the packaging.

Clean the upholstery down to the seams using a sweeping motion. Avoid strong rubbing.◀

Opened Velcro fasteners on pants or other articles of clothing can damage the seat covers. Ensure that Velcro fasteners are closed.◀

Leather/leather trim

The leather used by BMW is a high quality natural product. Slight irregularities in the leather are a typical characteristic of natural leather.◀

Dust and road grit in the pores and folds of the leather have an abrasive effect, leading to increased wear and causing the leather surface to become brittle prematurely. Therefore, frequently clean the leather of dust using a cloth or vacuum cleaner.

Clean light-colored leather more frequently as dust and dirt are more noticeable.

Treat the leather at least once every two months using a leather lotion as dirt and grease will gradually attack the leather's protective layer.

Carpets/cargo area

You can vacuum the carpets and floor mats or clean them with interior cleaner if heavily soiled.

The floor mats can be removed for cleaning. When replacing the mats, ensure that the seat rails do not extend over the floor mats, as this may damage the mats.

Lint on the floor mats occurs for technical reasons and can be removed by vacuuming repeatedly.

Interior plastic parts

- Imitation leather surfaces
- Lamp glasses
- Display pane of instrument cluster
- Matte parts

Clean with water and solvent-free plastic cleaner if necessary.

Fine wood parts

Clean fine wood trim and fine wood parts with a damp cloth. Wipe dry with a soft cloth.

Safety belts

Dirty belt straps impede the reeling action and thus have a negative impact on safety.

Do not clean chemically, as this may destroy the webbing.◀

Interior sensors/cameras

To clean interior sensors and cameras, use a lint-free cloth moistened with glass cleaner.

Displays

To clean displays, e.g. of the radio or instrument cluster, use a cleaning cloth for displays or a soft, non-abrasive, lint-free cloth.

Avoid applying excessive pressure when cleaning the displays; otherwise, damage may occur.◀

Do not use chemical or abrasive household cleaning agents. Keep all types of fluid away from the device. Otherwise, surfaces or electrical components may be corroded or damaged.◀

CD/DVD drives

Do not use a cleaning CD, as it may damage parts of the drive.◀

Vehicle storage

If your vehicle is to be decommissioned for longer than three months, your BMW center or a workshop that operates according to BMW specifications will be glad to advise you.

Replacing components

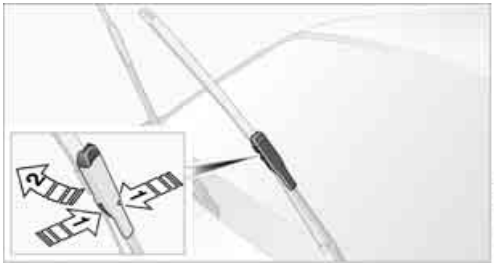
Onboard vehicle tool kit

The onboard vehicle tool kit is stored in a compartment on the right-hand side of the cargo area. Remove the cover.

Sports Wagon

The onboard vehicle tool kit is stored in a compartment on the left-hand side underneath the cargo area floor panel.

Wiper blades



1. Fold out the wiper arm and hold it.
2. Press together the locking spring, arrows **1**, and fold out the wiper blade, arrow **2**.
3. Take the wiper blade out of the catch mechanism, pulling the blade toward the front.

To avoid damage, make sure that the wiper arms are against the windshield before you open the engine compartment.◀

Sports Wagon: changing rear wiper blade

1. Fold up the wiper arm.
2. Pull off the wiper blade, see arrow.
3. Insert the new wiper blade and press it on until it audibly engages.

Lamps and bulbs

Lamps and bulbs make an essential contribution to vehicle safety. They should, therefore, be handled carefully. 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 tissue, cloth or something similar, or hold the bulb by its base.◀

You can obtain a selection of replacement bulbs at your BMW center.

Only change bulbs while they are cool to the touch; otherwise, you could suffer burns.◀

When working on electrical systems, always begin by switching off the consumer in question; otherwise, short-circuits could result. To avoid possible injury or equipment damage when replacing bulbs, observe any instructions provided by the bulb manufacturer.◀

For care of the headlamps, please follow the instructions in the chapter entitled 'Care'.

If the routine for changing a particular bulb is not described here, please contact your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.◀

Light-emitting diodes LED

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 or expose the eyes directly to the unfiltered light source for several hours; otherwise, this could cause irritation of the retina.◀

Xenon lamps

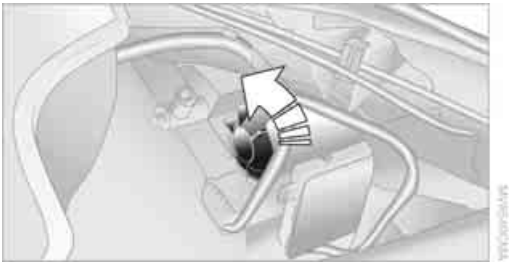
These bulbs have a very long service life and are highly unlikely to fail. If a xenon lamp fails nevertheless, switch on the fog lamps and continue the journey with great care, provided that local legislation does not prohibit this.

Have any work on the xenon lamp system, including bulb replacements, performed only by a BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel. Otherwise, if such work is carried out improperly, the high voltage in the system presents the danger of fatal injuries.◀

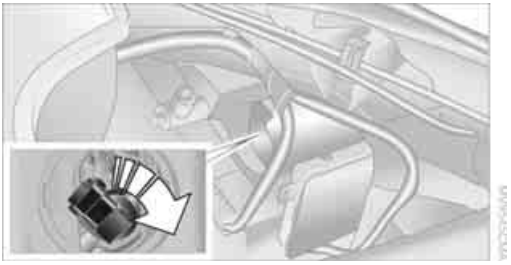
Replacing parking lamps, roadside parking lamps, and daytime running lights

H8 bulb, 35 watts

1. Switch off the lamps and take the remote control out of the ignition lock.
2. Turn the cover to the left, see arrow, and remove it.



3. Turn the bulb approx. 90°, see arrow, and take it out.



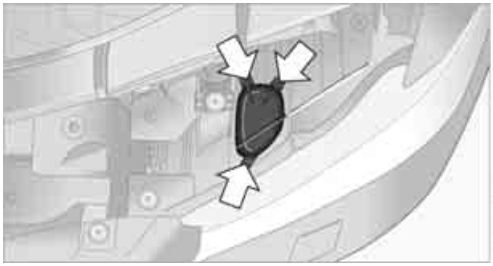
4. Disconnect the plug, change the bulb and reconnect the plug.
5. Insert the bulb and turn it until it stops.
6. Reattach the cover.

Replacing the corner-illuminating lamp*

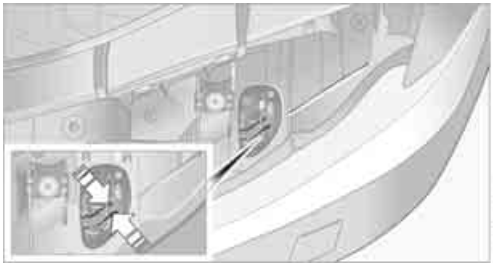
H3 bulb, 55 watts

1. Switch off the lamps and take the remote control out of the ignition lock.
2. Remove the upper cover from the headlamp. To do so, pull the rubber seal up and off and unscrew the cover using the screw-

driver from the onboard vehicle tool kit, see arrow.



3. Release the wire bracket from the anchor, see arrow, and fold it up.



4. Disconnect the plug, change the bulb and reconnect the plug.
5. Insert the bulb.
6. Fold the wire bracket down and engage it.
7. Reattach the cover.

Be careful when installing the cover; otherwise, leaks could occur and cause damage to the headlamp system.◀

Halogen lamps

H7 bulb, 55 watts

Always wear gloves and eye protection; the atmosphere within the H7 bulb is pressurized. Otherwise, there is a risk of injury if the bulb is damaged.◀

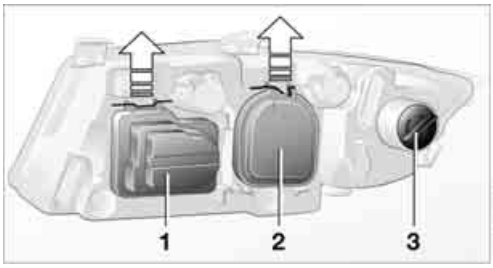
There are separate headlamp covers for low-beam headlamps and high-beam headlamps.

Be careful when installing the covers; otherwise, leaks could occur and cause damage to the headlamp system.◀

For checking and adjusting headlamp aim, please contact your BMW center.◀

Access to the lamps

The high-beam headlamp can be accessed from the engine compartment, whereas the low-beam headlamp is accessed through a flap in the wheel well.



1 Cover for high-beam headlamp

2 Cover for low-beam headlamp

3 Turn signal bulb socket

To remove the covers:

1. Fold the respective wire bracket to the side, see arrows.
2. Flip open the cover and take it out of the guide.

Follow the same steps in reverse order to reattach the covers.

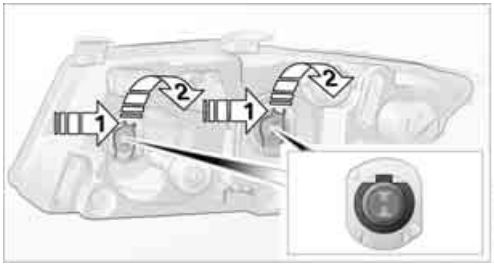
Access through the wheel well

Only for low-beam headlamps and turn signals:

1. Turn the wheel inwards.
2. Open the flap in the wheel well. To do so, turn the fastener counterclockwise using a coin, for example.

Changing low-beam and high-beam bulbs

1. Remove the relevant cover for the headlamp.
2. Disconnect the plug from the lamp.
3. Push the wire bracket to the side out of the mounting, arrow **1**, and fold it down, arrow **2**.

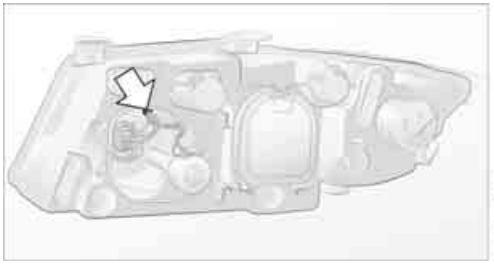


4. Remove the bulb.
5. Insert new bulb as shown in the detail of the illustration above.
6. Fold up the wire bracket and engage it.
7. Connect the plug.
8. Reattach the cover.

Parking lamps, roadside parking lamps

W5W bulb, 5 watts

1. Remove the cover for the high-beam headlamp.
2. Pull out the bulb socket, see arrow.



3. Remove and replace the bulb.
4. Insert bulb socket.
5. Reattach the cover.

Turn signals, front

PY24W bulb, 24 watts

1. Open the flap in the wheel well, refer to Access through the wheel well on page 149.

2. Rotate turn signal bulb socket **1** to the left and remove.
3. Apply gentle pressure to the bulb while turning it to the left for removal and replacement.
4. Insert turn signal bulb socket **1**.
5. Attach the flap to the wheel well.

Tail lamps

Sedan

- Brake lamp in the trunk lid: H21W bulb, 21 watts
- Backup lamp: W16W bulb, 16 watts
- Other lamps: P21W bulb, 21 watts

The tail lamps are divided in two parts. One part is in the trunk lid, the other is in the fender.

1 Brake lamp

2 Roadside parking lamp/tail lamp, LED

3 Turn signal, LED

4 Backup lamp

5 Tail lamp, LED

6 Brake lamp

If one of the bulbs **2**, **3** or **5** malfunctions, please contact your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.

Sports Wagon

- Brake lamp in the tailgate:
  H21W bulb, 21 watts
- Backup lamp:
  W16W bulb, 16 watts
- Other lamps:
  P21W bulb, 21 watts

The tail lamps are divided in two parts. One part is in the tailgate, the other is in the fender.

1 Brake lamp

2 Roadside parking lamp/tail lamp, LED

3 Turn signal, LED

4 Backup lamp

5 Tail lamp, LED

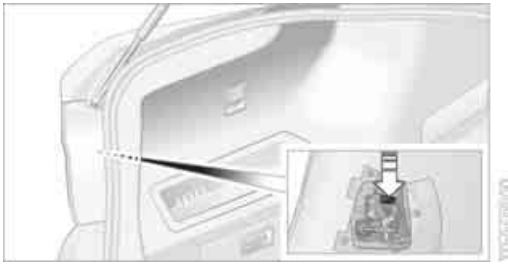
6 Brake lamp

If one of the bulbs **2**, **3** or **5** malfunctions, please contact your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.

Fender-mounted lamps

Sedan

1. Using a screwdriver, pry off the cover in the cargo area or release the turn-lock fastener by turning it counterclockwise and remove the cover.
2. Loosen the bulb holder at the clip, see arrow, and pull out.



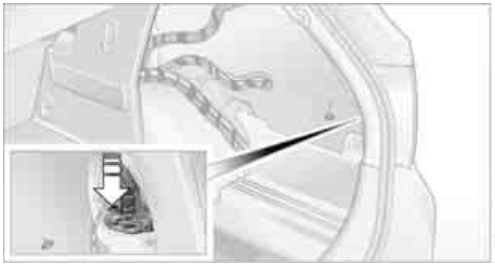
3. Apply gentle pressure to the bulb while turning it to the left for removal and replacement.
4. Re-engage the bulb holder so that it audibly clicks into place.
5. Reattach the cover in the cargo area.

Sports Wagon

1. Left-hand lamps:
   Open the flap on the left-hand side of the cargo area.

   Right-hand lamps:
   Open the cargo area floor panel. Turn the screws on the cover, arrows **1**, 90° and take out the cover, arrow **2**.

2. Loosen the bulb holder at the clip, see arrow, and pull out.



3. Apply gentle pressure to the bulb while turning it to the left for removal and replacement.
4. Re-engage the bulb holder so that it audibly clicks into place.
5. Reattach the cover in the cargo area.

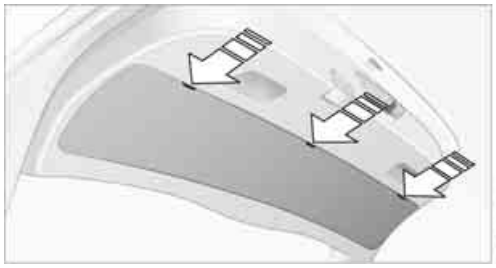
Lamps in the trunk lid/tailgate

Sedan

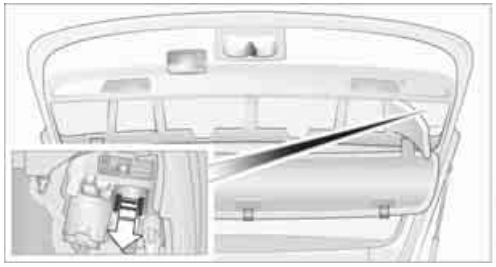
1. Take the warning triangle out of its holder, refer to page 156. Unscrew the holder using the screwdriver from the onboard vehicle tool kit.
2. Pry out the plastic plugs in the trim of the trunk lid using a screwdriver and remove the trim.
3. Release the bulb holder at the clip, see arrow, and remove.
4. Apply gentle pressure to the bulb while turning it to the left for removal and replacement.
5. Re-engage the bulb holder so that it audibly clicks into place.
6. Reattach the trim of the trunk lid and the holder for the warning triangle.

Sports Wagon

1. Use a screwdriver to press out the cover at the clips, see arrows, and fold it downward.



2. Fold away the foam insulating material.
3. Release the bulb holder at the clip, see arrow, and remove.



4. Apply gentle pressure to the bulb while turning it to the left for removal and replacement.
5. Re-engage the bulb holder so that it audibly clicks into place.
6. Reattach the trim of the tailgate.

License plate lamp, center brake lamp, parking/tail lamp and turn signal*

These lamps use LED technology for operation. In the event of a malfunction, please contact your BMW center or a workshop that works according to BMW repair procedures with correspondingly trained personnel.

Changing wheels

Your BMW is equipped with run-flat tires as standard. This removes the need to change a wheel immediately in the event of a puncture.

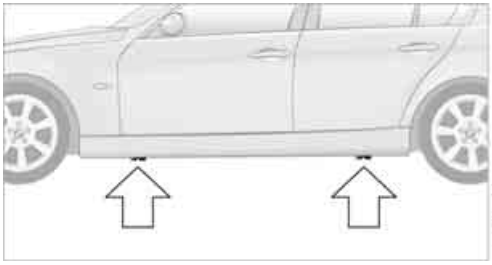
For information on continuing to drive with a damaged tire, refer to Indication of a flat tire on page 73.

The symbol identifying run-flat tires is a circle with the letters RSC on the sidewall, refer to Run-flat tires, page 134.

When mounting new tires or changing over from summer to winter tires and vice versa, mount run-flat tires for your own safety. In the event of a flat, no spare wheel is available. Your BMW center will be glad to advise you. Refer also to New wheels and tires, page 134.

The tools for changing wheels are available as optional accessories from your BMW center.◀

Jack mounting points



The jacking points are at the positions shown in the illustration.

Vehicle battery

Battery care

The battery is 100% maintenance-free, 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.

Replacing the battery

Only use vehicle batteries that have been approved for your vehicle by the manufacturer; otherwise, the vehicle could be damaged and systems or functions may not be fully available.◀

After a battery replacement, have the battery registered on the vehicle by your service center to ensure that all comfort functions are fully available.

Charging the 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 156.

Disposal

Have old batteries disposed of by your BMW center or bring them to a recycling center. Maintain the battery in an upright position for transport and storage. Always secure the battery against tipping over during transport.◀

Power failure

After a temporary power loss, the functioning of some equipment may be limited and require reinitialization. Individual settings may likewise have been lost and will have to be programmed:

- Time and date
  These values must be updated, refer to page 67.
- Radio
  Stations must be stored again, refer to the separate Owner's Manual for Radio.
- Glass roof
  It may happen that the roof can only be raised. The system must be initialized. Please contact your BMW center.
- Panorama glass roof
  It may happen that the roof can only be raised. The system must be initialized. Please contact your BMW center.

- Seat and mirror memory
  The positions must be stored again, refer to page 37.
- Inside rearview mirror with digital compass
  The system must be calibrated, refer to page 93.
- Active steering
  The system automatically initializes itself briefly during a trip. The system is deactivated during this time, refer to page 76.
- xDrive
  The system automatically initializes itself during a trip. Indicator lamps light up during this time. If the lamps do not go out during the current trip, have the system checked.

Fuses

Never attempt to repair a blown fuse and do not replace a defective fuse with a substitute of another color or amperage rating; otherwise, this could lead to a circuit overload, ultimately resulting in a fire in the vehicle.◀

Open the cover in the glove compartment and remove it.

Plastic tweezers are located on the distributor box.
See the rear of the cover for information on fuse assignment.

Spare fuses are available from your BMW center.

Giving and receiving assistance

Emergency Request*

Conditions for an Emergency Request:

- Full preparation package mobile phone: this equipment makes it possible to send an Emergency Request even if no mobile phone is paired with the vehicle.
- BMW Assist is activated. Activating BMW Assist, refer to separate Owner's Manual.
- Radio readiness is on.
- The BMW Assist system is logged on to a mobile phone network.
- The Emergency Request system is operable.

Once your service contract for BMW Assist expires, the BMW Assist system can be deactivated by a BMW center without you having to visit a workshop. Once the BMW Assist system has been deactivated, Emergency Requests are not possible. The BMW Assist system can be reactivated by a BMW center after a new contract has been signed.

Sending an Emergency Request

1. Briefly press the cover flap to open.

2. Press the SOS button until the LED in the button lights up.

As soon as the voice connection to the BMW Assist Response Center has been established, the LED flashes.

Once the BMW Assist Response Center has received your Emergency Request, the BMW Assist Response Center contacts you and takes further steps to help you. Even if you are unable to respond, the BMW Assist Response Center will be able to initiate further steps to assist you under certain conditions.

If the circumstances allow this, remain in the vehicle until the connection has been established. You will then be able to provide a detailed description of the situation.

Data for determining the necessary rescue measures are transmitted to the BMW Assist Response Center, e.g. the current position of your vehicle, if it can be determined.

If the LED is flashing but the BMW Assist Response Center cannot be heard over the hands-free system, it is possible that the hands-free system is malfunctioning. You may still be heard by the BMW Assist Response Center, however.

Under certain conditions, an Emergency Request is sent automatically immediately after a severe accident. This Automatic Collision Notification is not affected by the button being pressed.

For technical reasons, the Emergency Request service cannot be guaranteed for the most unfavorable conditions.◀

Roadside Assistance

The BMW Roadside Assistance is there to assist you around the clock in the event of a breakdown, including on weekends and public holidays.

The phone numbers of Roadside Assistance in your home country can be found in the Contact brochure.

First aid pouch*

Some of the articles contained in the first aid pouch have a limited service life. Therefore,

check the expiration dates of the contents regularly and replace any items in good time, if necessary.

Sedan

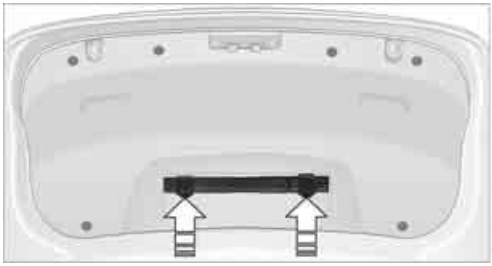
The first aid pouch is located on the right-hand side of the cargo area in a storage area.

Sports Wagon

The first aid pouch is located in the cargo area behind the left-hand trim panel.

Warning triangle*

Sedan



The warning triangle is located in a holder in the trunk lid. Press the tabs to take it out.

Sports Wagon

The warning triangle is located behind the left-hand trim panel in the cargo area. Press the tab to take it out.

Jump-starting

If the car's own battery is flat, your BMW's engine can be started by connecting two jumper cables to another vehicle's battery. You can also use the same method to help start another vehicle. Only use jumper cables with fully-insulated clamp handles.

Do not touch any electrically live parts when the engine is running, or a fatal accident may occur. 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 consumers in both vehicles.

There must not be any contact between the bodies of the two vehicles; otherwise, there is a danger of shorting.◀

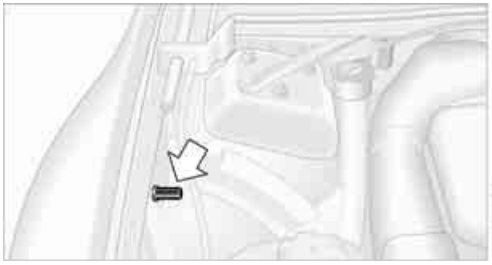
Connecting jumper cables

Connect the jumper cables in the correct order, so that no sparks which could cause injury occur.◀

Your BMW has a jump-starting connection in the engine compartment which acts as the battery's positive terminal, refer also to the Engine compartment overview on page 137. The cap is marked with +.

1. Pull the cap of the BMW jump-starting connection up to remove.

2. Attach one terminal clamp of the plus/+ jumper cable to the positive terminal of the battery or a starting-aid terminal of the vehicle providing assistance.
3. Attach the second terminal clamp of the plus/+ jumper cable to the positive terminal of the battery or a starting-aid terminal of the vehicle to be started.
4. Attach one terminal clamp of the minus/– jumper cable to the negative terminal of the battery or to an engine or body ground of the assisting vehicle.
   Your BMW has a special nut as body ground or negative pole.



5. Attach the second terminal clamp of the minus/– jumper cable to the negative terminal of the battery or to the engine or body ground of the vehicle to be started.

Starting the engine

1. Start the engine of the donor vehicle and allow it to run for a few minutes at slightly increased idle 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 above connecting sequence.

If necessary, have the battery checked and recharged.

Never use spray fluids to start the engine.◀

Tow-starting, towing away

Observe the applicable laws and regulations for tow-starting and towing vehicles.◀

Do not transport any passengers other than the driver in a vehicle that is being towed.◀

Using a tow fitting

The screw-in tow fitting must always be carried in the car. It can be screwed in at the front or rear of the BMW.

Sedan: it is stored in the onboard vehicle tool kit underneath the cover on the right-hand side of the cargo area, refer to page 147.

Sports Wagon: it is stored in the onboard vehicle tool kit underneath the cover on the left-hand side of the cargo area, refer to page 147.

Use only the tow fitting provided with the vehicle and screw it all the way in. Use the tow fitting for towing on paved roads only. Avoid lateral loading of the tow fitting, e.g. do not lift

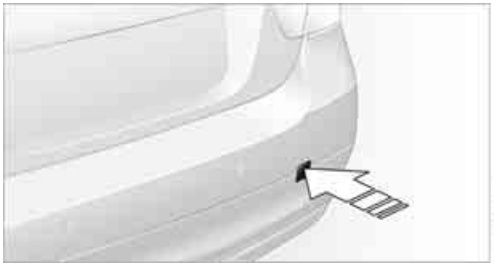
the vehicle by the tow fitting. Otherwise, the tow fitting and the vehicle could be damaged.◀

Access to screw thread

Release the cover panel in the bumper:
Press on the upper part of the cover panel.

Front

Rear



Being towed

Make sure that the ignition is switched on, refer to page 46; otherwise, the low-beam headlamps, tail lamps, turn signal indicators and windshield wipers may be unavailable.

Power steering assistance is not available when the engine is not running. Thus, braking and steering will require increased effort. Active steering is not active and it will be necessary to turn the steering wheel further.◀

Manual transmission

Gearshift lever in neutral position.

Automatic transmission

Selector lever in position N.
Changing selector lever positions, refer to page 49.

Do not exceed a towing speed of 45 mph or 70 km/h and a towing distance of 90 miles/150 km; otherwise, the automatic transmission may be damaged.◀

Towing methods

Do not lift the vehicle by a tow fitting or body and chassis parts; otherwise, damage may result.◀

With a tow bar

The towing vehicle must not be lighter than the towed vehicle; otherwise, it may be impossible to maintain control.◀

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 angle, please observe the following:

- Clearance and maneuvering capability will be sharply limited during cornering.
- The tow bar will generate lateral forces if it is attached offset.

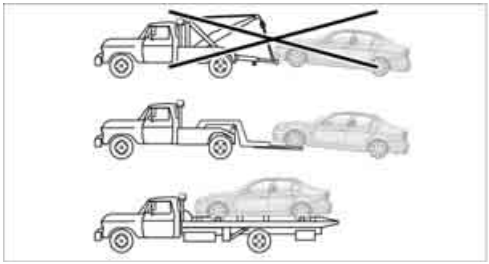
Attach the tow bar to the tow fittings only, as attaching it to other parts of the vehicle could result in damage.◀

With a 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. Attach the tow rope to the tow fittings only, as attaching it to other parts of the vehicle could result in damage.◀

With a tow truck: vehicle without xDrive



Have the BMW transported with a tow truck with a so-called lift bar, or on a flatbed.

Do not tow the vehicle with just the rear axle raised as this may cause the steering to turn.

With a tow truck: vehicle with xDrive

Do not tow a BMW with xDrive with just the front or rear axle raised; otherwise, the wheels could lock up and the transfer case could be damaged.◀

Have the BMW transported on a flatbed surface only.

Tow-starting

Avoid tow-starting the vehicle whenever possible; instead, jump-start the engine, refer to page 156. Vehicles with a catalytic converter should only be tow-started when the engine is cold, vehicles with an automatic transmission cannot be tow-started at all.

1. Switch on hazard warning flashers, comply with local regulations.
2. Switch on the ignition, refer to page 46.
3. Shift into 3rd gear.
4. Have the vehicle tow-started with the clutch depressed and slowly release the clutch. After the engine starts, immediately depress the clutch 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.

With xDrive: do not activate Hill Descent Control HDC when the vehicle is being tow-started, page 71.◀

Indicator and warning lamps

Indicator and warning lamps can light up in a variety of combinations and colors. See the table for information on causes and how to react. Note whether a lamp comes on alone or in combination with another. Some lamps can light up in different colors. Corresponding distinctions are made in the text.

1	2	Cause	What to do
		Turn signals	
		High beams/headlamp flasher switched on	
		Fog lamps switched on	
		Fasten safety belts	Fasten your safety belt, refer also to page 39.
BRAKE	PARK (P)	Indication in US models Parking brake applied	Release the parking brake.
(!)	PARK (P)	Indication in Canadian models Parking brake applied	Release the parking brake.
		Outside temperature warning	Drive cautiously, refer also to page 61.
		Lights up briefly: Gasoline engine: approx. 2.1 US gallons/8 liters of fuel remain in the tank Diesel engine: approx. 1.7 US gallons/6.5 liters of fuel remain in the tank Remains on: Remaining operating range is no more than 30 miles/50 km, refer to page 62	
	START	Engine refuses to start	Depress the brake or clutch in order to start the engine, refer to page 47.
	!	Ignition switched on and driver's door open	Switch off the ignition, refer to page 46, or close the driver's door.
		Parking lamps still on	Switch off the parking lamps, refer to page 79.

1	2	Cause	What to do
		Roadside parking lamps still on	Switch off the roadside parking lamps, refer to page 81.
		Preheat, refer to page 47	
		Door open	
		Engine compartment lid open	
		Trunk lid/tailgate or rear window open	
		Gas cap is open	Make sure that the gas cap is correctly positioned and close it until it audibly clicks. Do not jam the strap between the gas cap and the vehicle.
		Windshield washer fluid level too low	Add washer fluid as soon as possible, refer to page 52.
		Lights up in red: Service due Lights up in yellow: The engine will start the next time the start/stop button is touched, possibly without the brake or clutch being depressed	 Arrange a service appointment. Check service requirements, refer to page 65.
		Remote control malfunctioning or, in cars with Comfort Access, not detected	The engine cannot be started. Have the remote control checked, if necessary.
		Battery in remote control discharged	Use the remote control for a longer journey or, in cars with Comfort Access, replace the battery.
		Belt tensioners and/or airbag system failed	Have the system checked immediately.
		Active steering defective	You can continue your journey. Steering characteristics are modified and steering wheel could be off-center. Steer carefully. Have the system checked as soon as possible.

1	2	Cause	What to do
		Steering assistance failed	Markedly different steering response. You can continue your journey, but moderate your speed and exercise due caution. Have the system checked as soon as possible.
		Lights up: Emergency Request system has failed or is malfunctioning	Have the system checked as soon as possible.
		Lights up in red: Engine malfunction	Stop the car and switch off the engine. You cannot continue your journey. Contact your BMW center.
		Lights up in yellow: Full engine power is no longer available	You can continue your journey, but moderate your speed and exercise due caution. Have the engine checked as soon as possible.
		Indication in US models: Warning lamp flashes: Engine malfunction under high load. High engine load will result in damage to the catalytic converter	You can continue your journey, but moderate your speed and exercise due caution. Have the vehicle checked without delay.
		Warning lamp comes on: Engine malfunction with adverse effect on emissions	Have the car checked as soon as possible.
		Indication in Canadian models: Warning lamp flashes: Engine malfunction under high load. High engine load will result in damage to the catalytic converter	You can continue your journey, but moderate your speed and exercise due caution. Have the vehicle checked without delay.
		Warning lamp comes on: Engine malfunction with adverse effect on emissions	Have the car checked as soon as possible.

1	2	Cause	What to do
		Lights up in red:	
		Engine overheating	Carefully bring the car to a stop, switch off the engine and allow it to cool down. Do not open the hood; otherwise, there is a risk of injury from scalding. Contact your BMW center.
		Lights up in yellow:	
		Engine too hot	Continue driving at more moderate speed so that the engine can cool down. Have the engine checked without delay if the situation reoccurs.
		Lights up in red:	
		Battery is no longer being charged. Alternator malfunction	Switch off all unnecessary electrical consumers. Have the power supply system checked without delay.
		Lights up in yellow:	
		Battery charge level very low, battery aged or not securely connected	Have the battery checked as soon as possible.
BRAKE		Indication in US models	
		Parking brake applied	
		Indication in Canadian models	
		Parking brake applied	
BRAKE		Indication in US models	
		Lights up in red:	
		Brake fluid level too low	Reduced braking effect, stop the car carefully. Contact your BMW center.
		Lights up in yellow:	
		Drive-off assistant has failed. The car will not be held in place after the brake is released	Have the system checked as soon as possible.
		Indication in Canadian models	
		Lights up in red:	
		Brake fluid level too low	Reduced braking effect, stop the car carefully. Contact your BMW center.
		Lights up in yellow:	
		Drive-off assistant has failed. The car will not be held in place after the brake is released	Have the system checked as soon as possible.

1	2	Cause	What to do
BRAKE		Indication in US models Brake pads worn	Have the condition of the brake pads checked without delay.
(!)		Indication in Canadian models Brake pads worn	Have the condition of the brake pads checked without delay.
		Lights up in red: ▷ Starter failed or ▷ Ignition malfunctioning. Engine restart only possible when brake is depressed or ▷ Lighting system failed. Low beams/ tail lamps and brake lamps still operational. All other lamps failed Lights up in yellow: ▷ Control of the brake lamps failed or ▷ fuel supply malfunctioning	Have the system in question checked without delay. The engine cannot be restarted. Depress the brake to restart the engine. You can continue your journey, but moderate your speed and exercise due caution. Have the system in question checked without delay.
		Flashing: Dynamic Stability Control DSC or Dynamic Traction Control DTC is controlling drive and braking forces, refer also to page 71	
DTC		Dynamic Traction Control DTC activated, refer also to page 71	
		Dynamic Stability Control DSC and Dynamic Traction Control DTC deactivated, refer also to page 71	Driving stability limited during acceleration and cornering. Driving style must be readjusted.
		Suspension control system failed, refer also to page 70	Driving stability limited during acceleration and cornering. You can continue your journey, but moderate your speed and exercise due caution. Have the system checked as soon as possible.
		xDrive has failed, refer also to page 72	You can continue your journey. Drive cautiously and think well ahead. Avoid driving on rough tracks, full-throttle operation and use of the transmission's kickdown mode. Have the system checked immediately.

1	2	Cause	What to do
		xDrive and DSC have failed, refer also to page 72	You can continue your journey. Drive cautiously and think well ahead. Avoid driving on rough tracks, full-throttle operation and use of the transmission's kickdown mode. Have the system checked immediately.
		Indication in US models The driving stability control systems, including ABS and the Tire Pressure Monitor, have failed, refer also to page 70	You can continue your journey. Reduced braking and driving stability. Drive at moderate speed, avoid sudden braking if possible. Have the system checked as soon as possible.
		Indication* in Canadian models The driving stability control systems, including ABS and the Flat Tire Monitor or Tire Pressure Monitor*, have failed, refer also to page 70	You can continue your journey. Reduced braking and driving stability. Drive at moderate speed, avoid sudden braking if possible. Have the system checked as soon as possible.
		Indication* in Canadian models The driving stability control systems, including ABS and the Flat Tire Monitor or Tire Pressure Monitor*, have failed, refer also to page 70	You can continue your journey. Reduced braking and driving stability. Drive at moderate speed, avoid sudden braking if possible. Have the system checked as soon as possible.
		Indication in US models The driving stability control systems, including ABS, xDrive and the Flat Tire Monitor, have failed	You can continue your journey. Reduced braking and driving stability. Drive at moderate speed, avoid sudden braking if possible. Avoid driving on rough tracks, full-throttle operation and use of the transmission's kickdown mode. Have the system checked immediately.
		Indication* in Canadian models The driving stability control systems, including ABS, xDrive and the Flat Tire Monitor, have failed	You can continue your journey. Reduced braking and driving stability. Drive at moderate speed, avoid sudden braking if possible. Avoid driving on rough tracks, full-throttle operation and use of the transmission's kickdown mode. Have the system checked immediately.

1	2	Cause	What to do
ABS		Indication* in Canadian models	
		The driving stability control systems, including ABS, xDrive and the Flat Tire Monitor, have failed	You can continue your journey. Reduced braking and driving stability. Drive at moderate speed, avoid sudden braking if possible. Avoid driving on rough tracks, full-throttle operation and use of the transmission's kickdown mode. Have the system checked immediately.
ABS BRAKE		Indication in US models	
		Vehicle electronics failed	You cannot continue your journey. Contact your BMW center.
		Indication* in Canadian models	
		Vehicle electronics failed	You cannot continue your journey. Contact your BMW center.
ABS		Indication* in Canadian models	
		Vehicle electronics failed	You cannot continue your journey. Contact your BMW center.
		Vehicles with Flat Tire Monitor*	
		Light up in yellow and red:	
		▷ Tire is deflated	Carefully bring the car to a stop. Comply with the additional information starting on page 72.
		▷ Flat Tire Monitor not initialized	Initialize Flat Tire Monitor, refer to page 72.
		Light up in yellow:	
		Flat Tire Monitor failed. Punctures are not indicated	Have the system checked.
		Vehicles with Tire Pressure Monitor*	
		Light up in yellow and red:	
		There is a flat tire or substantial loss of tire pressure	Carefully bring the car to a stop. Comply with the additional information starting on page 73.

1	2	Cause	What to do
		Vehicles with Tire Pressure Monitor*	
		Light up in yellow:	
		Tire Pressure Monitor not initialized	Check the inflation pressure and reset the system, refer to page 74
		The small lamp flashes in yellow and then lights up continuously; the larger lamp comes on in yellow:	
		▷ Tire Pressure Monitor has failed. Punctures are not indicated	Have the system checked.
		▷ A wheel without TPM electronics has been mounted	Have the system checked.
		▷ Interference from systems or devices that use the same radio frequency. The system automatically reactivates once it is outside of the field of interference	
		Lights up in red:	
		▷ Transmission limp-home program active with restricted range of gears, possibly with reduced acceleration.	You can continue your journey, but moderate your speed and exercise due caution. Have the system checked without delay.
		Gears can be engaged without depressing the brake	Always depress the brake to engage a gear.
		Lights up in yellow:	
		▷ Automatic selector lever locked: Selector lever locked in position P with engine running or ignition switched on and brake depressed	Overriding selector lever lock, refer to page 50.
		▷ Brake signal malfunctioning: gear can be engaged without depressing the brake	To engage a gear while the vehicle is at a standstill, always step on the brake. Before leaving the vehicle, engage P and switch off the engine.

1	2	Cause	What to do
		Lights up in red: Transmission overheating	Bring the car to a stop and engage P. Allow the transmission to cool down. You can continue your journey, but moderate your speed and exercise due caution. Have the system checked if the situation reoccurs.
		Lights up in yellow: Transmission too hot	Avoid high engine loads. You can continue your journey, but moderate your speed and exercise due caution.
		P is not engaged. Vehicle not prevented from rolling	
		Selector lever position P not engaged. Ignition cannot be switched off	Engage selector lever position P when you wish to switch off the ignition, refer to page 46.
		Pinch protection system of the power windows malfunctioning	Have the system checked.
		Pinch protection system of the electric glass roof/panorama glass roof malfunctioning	Have the system checked.
		Cruise control deactivated: ▷ Driving stability control systems are active or ▷ parking brake is applied or ▷ the vehicle has not achieved a speed of 20 mph or 30 km/h or ▷ engaged gear not suitable for the speed being driven	
		Cruise control system failed	You can continue your journey. Have the system checked.
		Active cruise control deactivated: ▷ Driving stability control systems are active or ▷ parking brake is applied or ▷ the vehicle has not achieved a speed of 20 mph or 30 km/h or ▷ engaged gear not suitable for the speed being driven or	Keep a safe distance.

1	2	Cause	What to do
		▷ Radar sensor dirty	Clean the radar sensor, refer to page 58.
		Active cruise control failed	Keep a safe distance. Have the system checked.
		Park Distance Control failed	Have the system checked.
		▷ High-beam assistant inactive	Clean the sensor field on the front of the interior rearview mirror, refer to page 82.
		▷ High-beam assistant malfunctioning	Have the system checked by your nearest BMW center.
		▷ Sensitivity of the high-beam assistant has been changed	There is a risk that oncoming traffic may be blinded. Have the system checked by your nearest BMW center.
		Bulb of exterior lighting system failed	Have the exterior lighting checked as soon as possible.
		Low-beam headlamp or fog lamp failed	Have the low beams checked as soon as possible.
		High-beam headlamp failed	Have the high-beam headlamps checked.
		Adaptive light control failed	
		Coolant level too low	Add coolant immediately, refer to page 139.
		Engine oil pressure too low	Stop immediately and switch off the engine. You cannot continue your journey. Contact your BMW center.
		Engine oil level too low	Add engine oil immediately; refer to page 137 for more information.
		Diesel particle filter malfunctioning	You can continue your journey. Have the system checked as soon as possible.

1	2	Cause	What to do
		Lights up in red:	
		Service appointment overdue	Arrange a service appointment. Check service requirements, refer to page 65.
		Lights up in yellow:	
		Service due	Arrange a service appointment. Check service requirements, refer to page 65.
		No service due	Check service requirements, refer to page 65.
		Time and date no longer correct	Set the time and date, refer to page 67.

Reference

This chapter contains technical data and an index that will help you find information most quickly.

Technical data

Engine data

Sedan

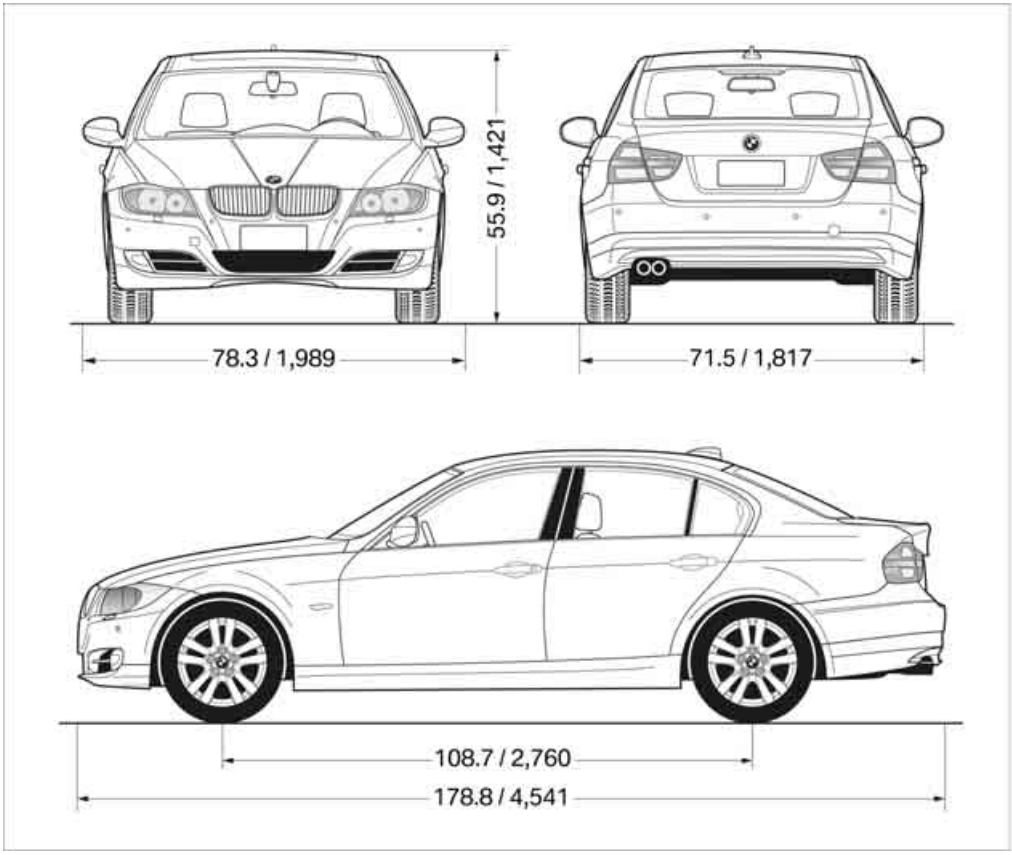
		323i (Canada)	328i/xDrive	335i/xDrive	335d
Displacement	cu in/cm³	152.4/2,497	182.8/2,996	181.8/2,979	182.6/2,993
Number of cylinders		6	6	6	6
Maximum power output	hp	200	230	300	265
at engine speed	rpm	6,000	6,500	5,800	4,200
Maximum torque	lb ft/Nm	180/244	200/270	300/407	425/580
at engine speed	rpm	4,000 - 5,000	2,750	1,400 - 5,000	1,750 - 2,250

Sports Wagon

		328i/xDrive
Displacement	cu in/cm³	182.8/2,996
Number of cylinders		6
Maximum power output	hp	230
at engine speed	rpm	6,500
Maximum torque	lb ft/Nm	200/270
at engine speed	rpm	2,750

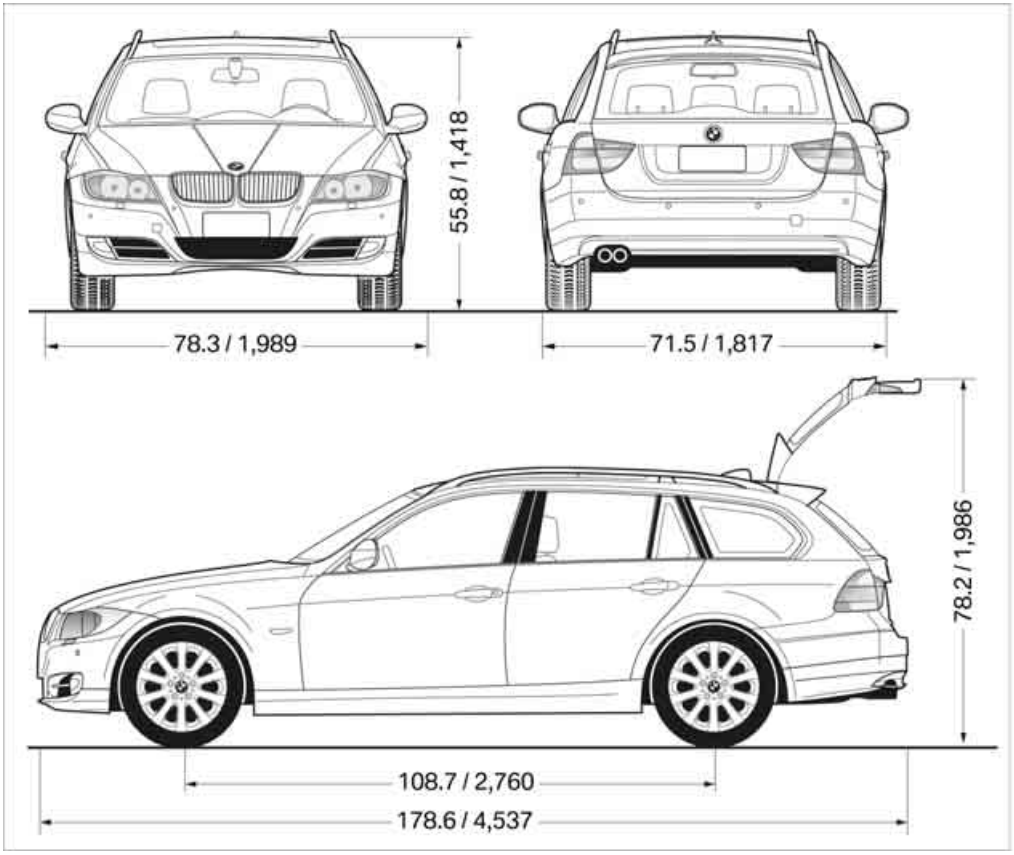
Dimensions

Sedan



All dimensions given in inches/mm.
Smallest turning circle dia.: 36.1 ft/11.0 m, with xDrive: 38.7 ft/11.8 m.

Sports Wagon



All dimensions given in inches/mm.
Smallest turning circle dia.: 36.1 ft/11.0 m, with xDrive: 38.7 ft/11.8 m.
328i xDrive width with mirrors: 79.3 inches/2,013 mm.

Weights

Sedan

		323i (Canada)	328i	328i xDrive
Approved gross weight				
▷ with manual transmission	lbs/kg	4,365/1,980	4,420/2,005	4,663/2,115
▷ with automatic transmission	lbs/kg	4,431/2,010	4,486/2,035	4,707/2,135
Load	lbs/kg	1,014/460	1,014/460	1,014/460
Approved front axle load	lbs/kg	2,105/955	2,127/965	2,304/1,045
Approved rear axle load	lbs/kg	2,425/1,100	2,469/1,120	2,513/1,140
Approved roof load capacity	lbs/kg	165/75	165/75	165/75
Cargo area capacity	cu ft/liters	16.2/460	16.2/460	16.2/460

		335i	335i xDrive	335d
Approved gross weight				
▷ with manual transmission	lbs/kg	4,652/2,110	4,872/2,210	-
▷ with automatic transmission	lbs/kg	4,663/2,115	4,883/2,215	4,883/2,215
Load	lbs/kg	1,014/460	1,014/460	1,014/460
Approved front axle load	lbs/kg	2,238/1,015	2,436/1,105	2,381/1,080
Approved rear axle load	lbs/kg	2,546/1,155	2,546/1,155	2,646/1,200
Approved roof load capacity	lbs/kg	165/75	165/75	165/75
Cargo area capacity	cu ft/liters	15.9/450	15.9/450	15.9/450

Never exceed either the approved axle loads or the gross vehicle weight.

Sports Wagon

		328i	328i xDrive
Approved gross weight			
▷ with manual transmission	lbs/kg	4,630/2,100	4,872/2,210
▷ with automatic transmission	lbs/kg	4,696/2,130	4,916/2,230
Load	lbs/kg	1,058/480	1,058/480
Approved front axle load	lbs/kg	2,127/965	2,326/1,055
Approved rear axle load	lbs/kg	2,646/1,200	2,646/1,200
Approved roof load capacity	lbs/kg	165/75	165/75
Cargo area capacity	cu ft/liters	16.2 - 48.9/460 -1385	16.2 - 48.9/460 -1385

Never exceed either the approved axle loads or the gross vehicle weight.

Capacities

			Notes
Fuel tank	US gal/liters	approx. 16.1/61	Fuel grade: page 115
including reserve of			
▷ Gasoline engine	US gal/liters	approx. 2.1/8.0	
▷ Diesel engine	US gal/liters	approx. 1.7/6.5	
Window washer system			For more details: page 53
including headlamp washers	US qt/liters	approx. 6.3/6.0	

Everything from A to Z

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