



Owner's Manual for the Vehicle.
With a quick reference guide
for your convenience.



BMW recommends Castrol



325Ci
330Ci

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:

Read this Owner's Manual to get summarized information, before you start out in your new BMW. It contains important data and instructions intended to assist you in gaining maximum use and satisfaction from the unique range of technical features on your BMW. This manual also contains information on maintenance and care, designed to ensure your safety and the proper operation of your vehicle, and to maintain your vehicle's value.

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

This manual is supplemented by a Service and Warranty Information Booklet (US models) or a Warranty and Service Guide Booklet (Canadian models). We recommend that you read this publication thoroughly.

Your BMW is covered by the following warranties:

- New Vehicle Limited Warranty
- Limited Warranty Rust Perforation
- 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 (US models) or in the Warranty and Service Guide Booklet (Canadian models).

We wish you an enjoyable driving experience.

BMW AG

Notes on the Owner's Manual

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

The detailed table of contents immediately following the index is intended to arouse your curiosity about your BMW and stimulate you to read about it.

Should you wish to sell your BMW at some time in the future, please remember to hand over this Owner's Manual to the new owner; it is part of the vehicle.

If you have any questions, your BMW center will be glad to advise you.

Symbols used



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



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



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

◀ Marks the end of a specific item of information.

* Indicates special equipment, country-specific equipment and optional extras.



Identifies systems or components, which your BMW center can either activate or adapt to suit an individual driver's requirements ("Car Memory", "Key Memory"). Refer to page 59. ◀

The individual vehicle

On purchasing your BMW, you have decided in favor of a model with individualized equipment and features. This Owner's Manual describes all models and equipment that BMW offers within the same group.

We hope you will understand that equipment and features are included which you might not have chosen for your vehicle. Any possible differences can easily be identified, since all optional accessories are marked with an asterisk *.

If your BMW features equipment which is not described in this Owner's Manual (car radio or telephone, for instance), Supplementary Owner's Manuals are enclosed. We ask you to read these manuals as well.

Status at time of printing

BMW pursues a policy of continuous, ongoing development that is conceived to ensure that our vehicles continue to embody the highest quality and safety standards combined with advanced, state-of-the-art technology. For this reason, it is possible that the features described in this Owner's Manual could differ from those on your vehicle. Nor can errors and omissions be entirely ruled out. You are therefore asked to appreciate that no legal claims can be entertained on the basis of the data, illustrations or descriptions in this Owner's Manual.

For your own safety



Use unleaded gasoline only. Fuels containing up to and including 10% ethanol or other oxygenates with up to 2.8% oxygen by weight (i.e. 15% MTBE or 3% methanol plus an equivalent amount of co-solvent) will not void the applicable warranties respecting defects in materials or workmanship. Field experience has indicated significant differences in fuel quality (volatility, composition, additives, for example) among gasolines offered for sale in the United States and Canada. The use of poor quality fuels may result in driveability, starting and stalling problems especially under certain environmental conditions, such as high ambient temperature and high altitude. Should you encounter driveability problems which you suspect could be related to the fuel you are using, we recommend that you respond by switching to a recognized high-quality brand. Failure to comply with these recommendations may result in unscheduled maintenance. Follow the relevant safety rules when you are handling gasoline. ◀



Important safety information!

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 from 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 non-BMW approved accessories such as alarms, radios, amplifiers, radar detectors, wheels, suspension components, brake dust shields, telephones (including operation of any portable cellular phone from within the vehicle without using an externally mounted antenna) or transmitter equipment (such as C.B., walkie-talkie, ham radio or similar) 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. ◀

Symbol on vehicle parts



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

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

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect that 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, Inc., P.O. Box 1227, Westwood, New Jersey 07675-1227, Telephone (201) 307-4000.

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

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



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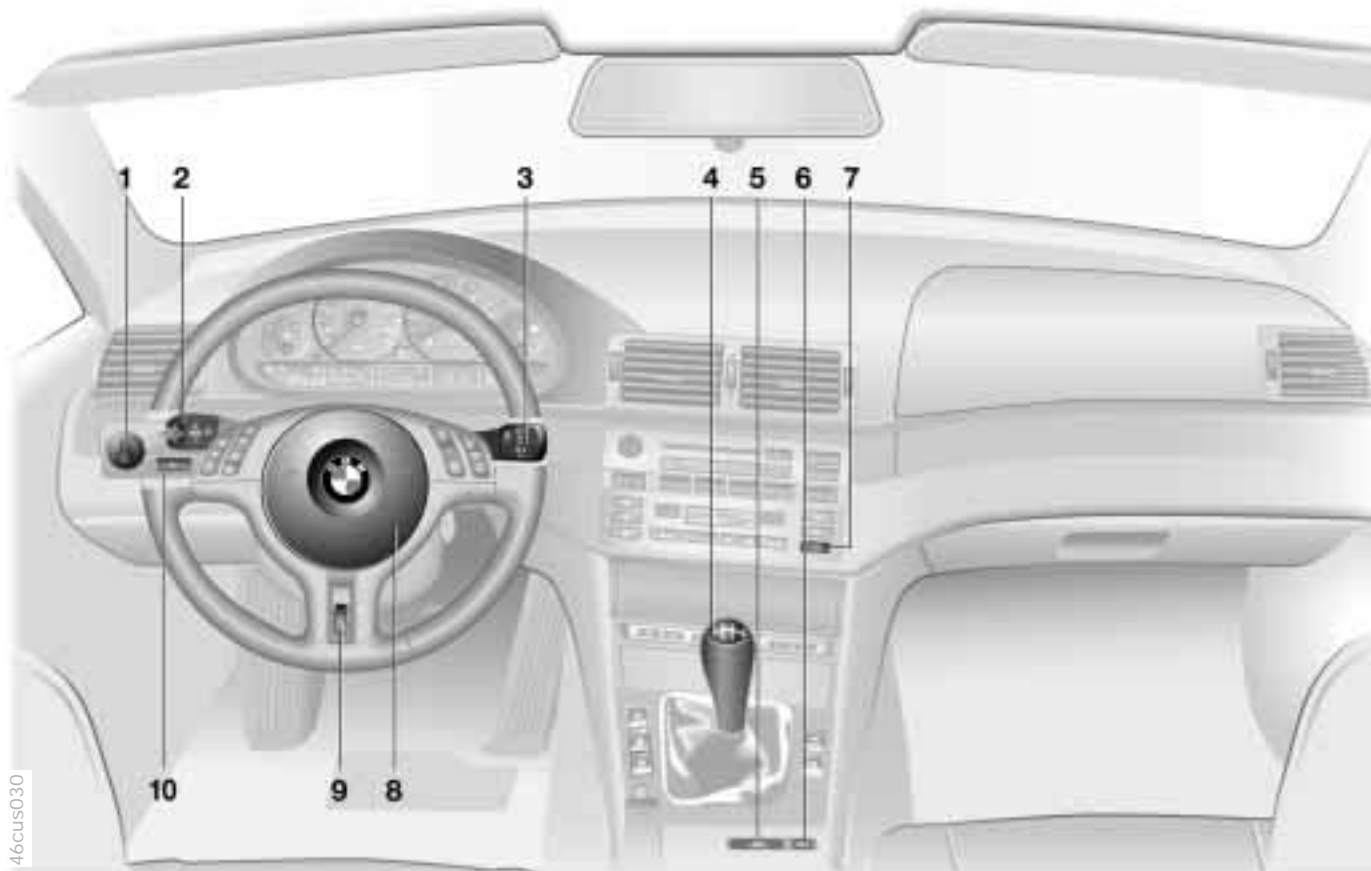
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Instrument cluster

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You can display the outside temperature and distance driven in different units of measurement. ◀

Technology that monitors itself

Many of the systems of your BMW monitor themselves automatically, both during engine starts and while you are driving. Indicator and warning lamps that are identified by "●" are tested for proper functioning whenever the ignition key is turned. They each light up once for different periods of time.

If a fault should occur in one of these systems, the corresponding lamp does not go out after the engine is started, or it lights up while the vehicle is moving. You will see how to react to this below.

Red: stop immediately



Battery charge ●

The battery is no longer being charged. There is a malfunction of the alternator V-belt or in the charging circuit of the alternator. Please contact the nearest BMW center.



If the V-belt is defective, do not continue driving, otherwise, the engine could be damaged due to overheating. If the V-belt is defective, increased steering effort is also required. ◀



Engine oil pressure ●

Stop the vehicle immediately and switch off the engine. Check the engine oil and top off as required. If the oil level is correct, please contact the nearest BMW center.



Do not continue driving. If you do so, the engine could be damaged because of inadequate lubrication. ◀



Tire Pressure Control (RDC) ●

In addition, an acoustic signal is sounded: a tire failure has occurred. Reduce vehicle speed immediately to stop the vehicle. Avoid hard brake applications. Do not oversteer. For additional information, refer to page [91](#).



Brake warning lamp ●

If the lamp comes on when the parking brake is not engaged: check the brake fluid level. Before driving further, be sure to read the notes on pages [126](#) and [148](#).



Brake warning lamp for Canadian models.

Indicator and warning lamps

Red and yellow: continue driving cautiously



The brake warning lamp and the yellow indicator lamps for ABS and ASC+T/DSC both light up: The entire ABS, CBC, ASC+T/DSC and ADB/DBC system has failed. Continue driving cautiously and defensively. Avoid hard brake applications.

Please have the system checked by your BMW center as soon as possible. For additional information, refer to pages [88](#), [123](#).



CBC, ABS, ASC+T/DSC indicator and warning lamps for Canadian models.



Red: an important reminder



Parking brake

Comes on when the parking brake is applied – an acoustic signal also sounds when starting off. For additional information, refer to page [71](#).



Parking brake warning lamp for Canadian models.



Adjust and lock backrest/Please fasten safety belts ●

A warning signal will sound at the same time. Flashes, if the backrest is not locked. Lights up until the safety belt is fastened. For additional information on safety belts, refer to page [60](#).



Airbags ●

Please have the system inspected by your BMW center. For additional information, refer to pages [61](#), [189](#).

Orange: consult the nearest BMW center



Automatic transmission

Because of a malfunction, the automatic transmission shifts only in the emergency program. Please consult the nearest BMW center. For additional information, refer to page [75](#).

22 Indicator and warning lamps

Yellow: check as soon as possible



Antilock Brake System (ABS) ●
ABS has been deactivated in response to system malfunction.

Conventional braking efficiency is available without limitations. Please have the system inspected by your BMW center.

For additional information, refer to page [123](#).



ABS warning lamp for Canadian models.



Engine oil level

Lights up while driving:

The oil level is at the absolute minimum; therefore, add engine oil as soon as possible. Do not drive more than 30 miles (50 km) until you do. For additional information, refer to page [145](#).



Engine oil level

Comes on after the engine has been shut off: add oil at the earliest opportunity (when you stop to refuel).

For additional information, refer to page [145](#).



Brake pads ●

Have the brake pads checked.

For additional information, refer to page [126](#).



Tire Pressure Control (RDC) ●

Check tire inflation pressure: refer to pages [27](#), [91](#).



Automatic Stability Control plus Traction (ASC+T)/Dynamic Stability Control (DSC) ●

Indicator lamp flashes:

The system is active and governs drive force and braking force.

The indicator lamp remains on:

ASC+T has been switched off via the button or it is defective, or the DSC has been switched off, ADB is operational. Please consult the nearest BMW center in the event of a fault.

For additional information, refer to page [88](#).



Automatic Stability Control plus Traction (ASC+T)/Dynamic Stability Control (DSC) and brake warning lamp ●



The indicator lamps remain on: DSC and ADB/DBC are

switched off via the button or are defective.

Please consult the nearest BMW center.

For additional information, refer to page [88](#).



DSC and ADB/DBC indicator and warning lamps for Canadian models.



Add washer fluid.

The washer fluid is too low. Top up the fluid at the earliest

opportunity.

For additional information, refer to page [144](#).



Service Engine Soon ●

If the indicator lamp comes on either continuously or intermittently, this indicates a fault in the emissions-related electronic systems.

Although the vehicle remains operational, you should have the systems inspected by your BMW center at the earliest possible opportunity.

For additional information, refer to page [162](#).



Service Engine Soon warning lamp for Canadian models.



Engine electronics* ●

There is a fault in the engine's electronic control system. The electronics will allow you to continue driving with reduced engine output or reduced engine speed. Please have the system inspected by your BMW center.



Add coolant

The coolant level is too low. Top up the coolant at the earliest opportunity.

For additional information, refer to page [147](#).

Green: for your information



Turn signal indicator

Flashes when the turn signal is on.

Rapid flashing indicates a system malfunction.

For additional information, refer to page [76](#).



Cruise control

Lights up when the cruise control is activated: available for operation via the multifunction steering wheel.

For additional information, refer to page [79](#).



Front fog lamps

Lights up whenever you switch on the front fog lamps.

For additional information, refer to page [94](#).

Blue: for your information



High beams

Comes on when the high beams are on or the headlamp flasher is actuated.

For additional information, refer to pages [76](#), [94](#).

24 Multifunction steering wheel (MFL)

The controls integrated in the multifunction steering wheel are provided so that you can operate a number of accessories quickly and without being distracted from traffic conditions. You may operate:

- ▷ Selected radio functions,
- ▷ the cruise control,
- ▷ selected cellular phone functions.



In order to operate a system via the MFL, the corresponding systems must be switched on. ◀

Refer to the individual accessory manuals for more detailed descriptions.




- | | |
|--|--|
| 1 Radio/Telephone: select | 6 Horn: the entire surface functions as the horn |
| 2 Telephone: receive a call, initiate dialing and terminate a call | 7 Cruise control: activate stored setting (resume) |
| 3 Radio/Telephone: volume | 8 Cruise control: store and accelerate (+); decelerate and store (-) |
| 4 Radio/Telephone: scan backward or scan station keys or scroll through the phone listings | 9 Cruise control: activate/interrupt/deactivate |
| 5 Radio/Telephone: scan forward or scan station keys or scroll through the phone listings | |

Hazard warning flashers



The button flashes on and off when the hazard warning flashers are on.

To help you locate the switch in an emergency, the button is also illuminated whenever the vehicle's lamps are on.


 The turn signal indicator function takes precedence over the hazard warning flashers function. Starting from ignition key position 1, you are therefore able to use the turn signal indicators, even if the hazard warning flashers have been activated. ◀

Warning triangle*



The warning triangle is stored in a recess on the left-hand side of the luggage compartment where it is quickly available.

To open the container, loosen the wing nut.

 Comply with legal requirements that cover the availability of a warning triangle in the vehicle. ◀


First-aid kit*



The first-aid kit is located under the passenger seat.

To open: reach into the recess and pull the cover down.


To close: raise the cover until it clicks into place.

 Some of the articles in the first-aid kit may be used within a limited time only. For this reason, check the expiration dates of each of the items regularly, and replace any with passed dates. You can purchase replacements in any drugstore or pharmacy. Comply with legal requirements that cover the availability of a first aid-kit in the vehicle. ◀

26 Refueling




Fuel filler door

 Before filling the tank, shut off the engine. If you do not, fuel cannot be filled into the tank and the Service Engine Soon lamp may come on. ◀

Press on the rear edge of the fuel filler door to open and close it.


Regarding unlocking it if the central locking system malfunctions, refer to page [180](#).

 When handling fuels, comply with all of the applicable safety precautions and regulations pertaining to fuels.

Never carry spare fuel containers in your vehicle. Whether empty or full, these containers can leak, cause an explosion, or lead to fire in the event of a collision. ◀



Simple and environmentally friendly

 Open the filler cap carefully to prevent fuel from spraying out. Fuel spray may cause injury. ◀


Keep the filler cap in the bracket attached to the fuel filler door.

When refueling, insert the filler nozzle completely into the filler pipe. Pulling the nozzle out of the pipe during refueling

- ▷ results in premature pump shutoff
- ▷ and will reduce the effect of the vapor recovery system on the pump.

The fuel tank is full, whenever the fuel nozzle shuts off the first time, as is specified for proper service.

Tank capacity: refer to page [199](#).

 Close the fuel cap carefully after refueling until a "click" is heard. While closing, be sure not to squeeze the strap which is fastened to the cap. A loose or missing cap will activate the Service Engine Soon lamp. ◀

Fuel specifications

The engine uses lead-free gasoline only.

Required fuel:

Premium Unleaded Gasoline,
min. 91 AKI.

AKI = Anti Knock Index



Do not use leaded fuels. The use of leaded fuels will cause permanent damage to the system's oxygen sensor and the catalytic converter. ◀

Tire inflation pressure



Proper inflation pressures are on a sticker attached to the B-pillar and visible with the driver's door open.

Check tire pressures

On the next page you will find all the tire pressure and ambient air temperature specifications stated in the units usually used in your country (psi; kilopascal).

For vehicles with Tire Pressure Control (RDC):

After correcting the tire inflation pressure, reactivate the system. Refer to page [91](#).




Check tire inflation pressures, including the space-saver spare tire, regularly, at least every two weeks and before beginning any extended driving. Otherwise, incorrect tire pressure can lead to tire damage and accidents. ◀

Comply with tire approval specifications

The inflation pressures in the table apply to tires from BMW-approved manufacturers. Your BMW center is familiar with these manufacturers. Higher pressures may be specified for tires made by other manufacturers. You will find a list of approved tires beginning on page 137.

Your vehicle is equipped with tires that meet US and European standards. We recommend the exclusive use of tires approved by BMW.

BMW	Tires				
	All pressure specifications in the table are indicated in psi (kilopascal) for cold tires (cold = ambient temperature)				
325Ci	All summer tires	29 (200)	33 (230)	36 (250)	44 (300)
	All winter tires	32 (220)	36 (250)	39 (270)	46 (320)
330Ci	All summer and winter tires	32 (220)	36 (250)	39 (270)	46 (320)
All	Space-saver spare tire	61 (420)			

For all season tires, use the same tire inflation pressure as for summer tires.
BMW 325Ci: when using the tire 205/50 R 17 93 W extra load, the inflation pressure increases by 3 psi (20 kilopascal).
BMW 330Ci: when using the tire 225/45 R 17 91 W and mixed tires 225/45 ZR 17 (front) + 245/40 ZR 17 (rear) the inflation pressure decreases by 3 psi (20 kilopascal).

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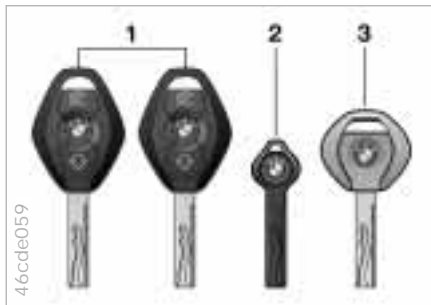
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- 1 The remote control master keys determine Key Memory functions. Refer to page [59](#)

 There is an extended-life battery in every master key that is charged automatically in the ignition lock as you drive.


At least once a year, drive for an extended period with a master key that you do not use otherwise to charge the battery. Refer also to page [35](#). ◀

- 2 Spare key for storage in a safe place, such as in your wallet. This key is not intended for constant use

- 3 Door and ignition key
The locks for the luggage compartment lid and the glove compartment cannot be operated with this key – this is recommended for valet parking, for instance

Replacement keys

Replacement keys are available exclusively through your BMW center. Checking vehicle ownership is mandatory, since the keys are part of a security system. (Refer to "Electronic vehicle immobilizer" on page [33](#)).

 If possible, take all of the master keys that belong to the vehicle with you when you pick up your replacement key. Whenever you receive a new replacement key, turn that key to position 2 in the ignition lock once (ignition switched on) and then back. This allows the electronic vehicle immobilizer to "learn" the new key. ◀

Electronic vehicle immobilizer




The key to security

Your BMW is equipped with a passive anti-theft system. This electronic immobilization system is designed to reduce the susceptibility of the vehicle to theft by making it impossible to start the engine using any means other than the special keys furnished with the vehicle. Your BMW center can cancel the electronic system authorization for individual keys (in the event of loss, for instance). A deactivated key can no longer be used to start the engine.

How the electronics work

At the heart of this system is an electronic chip that is integrated into the key. The lock mechanism itself is actually a dual-function device, serving as a communications interface designed to allow the vehicle's electronics system to maintain a continuous stream of variable, vehicle-specific signals with the electronic circuitry in the key. The system will not release the ignition, fuel injection and starter unless it recognizes an "authorized" key.

 Force applied to the key can damage the integrated electronic circuitry. A damaged key can no longer be used to start the engine. ◀

The concept

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

- ▷ doors
- ▷ luggage compartment lid
- ▷ fuel filler door
- ▷ glove compartment

at the same time.

The central locking system can be operated

- ▷ from outside via the door lock and using the remote control
- ▷ from inside by pressing a button.

Activating it from inside does not lock the fuel filler door (see page 38). When the system is actuated from the outside, the anti-theft system is activated simultaneously. Both the door locks and the safety lock buttons remain locked. The alarm system is also armed or disarmed.

The central locking system unlocks automatically in the event of an accident. In addition, the hazard warning flashers and interior lamps come on.

Opening and closing – from the outside**Using the key**

Turning the key once in the driver-side door will unlock only the driver's door. Turning the key a second time will unlock the passenger-side door, the luggage compartment lid, the fuel filler door and the glove compartment.



You can have a signal set as an acknowledgment message that the vehicle is closed correctly. ◀

Convenience operation

You can also operate the power windows and the fully automatic convertible top from the door lock.

- ▷ To open: with the door closed, hold the key in the "Unlock" position.
- ▷ To close: with the door closed, turn the key to the "Lock" position and hold it.



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

Manual operation

(in the event of electrical malfunction)

Turn the key to the extreme left or right to unlock/lock the door.

Opening and closing – from the outside

Using the remote control

The remote control gives you an exceptionally convenient method for unlocking and locking your vehicle. Furthermore, it provides two additional functions that can only be executed by means of the remote control:


- ▷ Switch on the interior lamps, refer to page 36.

With this function, you can also "search for" your vehicle – when parked in an underground garage for instance.

- ▷ To open the luggage compartment, refer to page 36

The luggage compartment lid will open slightly, regardless of whether it was locked or unlocked.

The anti-theft system is also deactivated simultaneously when you unlock the vehicle, the alarm system is disarmed, and the interior lamps are turned on. When you lock the vehicle, the systems are activated and armed, and the lamps go off.

 You can have a signal set as an acknowledgment message that the vehicle is closed correctly. ◀



Master keys

Keys with remote control are master keys. Refer to page 32.



Children might be able to lock the doors from the inside. For this reason, always take the vehicle keys with you so that the vehicle can be opened again from the outside at any time. ◀



Master keys that are used repeatedly are always ready for operation since the battery in the key is charged automatically in the ignition lock as you drive.

If it is no longer possible to unlock the vehicle using the remote control, the battery is discharged. Use this key while driving for an extended period in order to recharge the battery. Refer also to page 32.

To prevent unauthorized use of the remote control, surrender only the door and ignition key or the spare key (refer to page 32) e.g. whenever leaving the vehicle for valet parking.

In the event of a system malfunction, please contact your BMW center. You can also obtain replacement keys there. ◀

36 Opening and closing – from the outside



To unlock the vehicle

Unlock driver's door: press button 1.
After unlocking the driver's door, press button 1 again to unlock the entire vehicle.

Convenience opening mode

Press and hold button 1. The electric power windows and the fully automatic convertible top are opened.

To lock and secure

Press button 2.



To switch on the interior lamps

After locking the vehicle, press button 2 again.

To switch off tilt alarm* and interior motion sensor*

Press button 2 again immediately after locking.
For additional information: refer to page [43](#).



To open the luggage compartment lid

Press button 3.

The luggage compartment lid will open slightly, regardless of whether the lid was previously locked or unlocked.



Before and after a trip, be sure that the luggage compartment lid was not opened unintentionally. ◀

Opening and closing – from the outside

Panic mode (triggering alarm)

By pressing button 3 for 2 to 5 seconds, the alarm can be sounded in the event of danger, if the alarm system is armed. Pressing button 1 will turn the alarm off. The LED (light-emitting diode) will light up briefly whenever you press the individual buttons.

Non-BMW systems

The proper functioning of the remote control system may be affected by other devices or equipment operating in the immediate vicinity of your vehicle.

If this should occur, you can still open and close the vehicle using the master key in either the door or luggage compartment lock.

For US owners only

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

FCC ID: LX8EWS
LX8FZVS
LX8FZVE

Compliance statement:

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

- ▷ This device may 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. ◀

38 Opening and closing – from the inside



Use this button to operate the central locking system whenever the doors are closed. The doors and luggage compartment lid are unlocked or locked only. The anti-theft alarm system is not activated.

 If only the driver's door was unlocked from the outside and you press the button, then the passenger-side door, the luggage compartment lid, the fuel filler door and the glove compartment will unlock if the driver's door is open. The driver's door will be locked if it is closed. ◀

 If you desire, the central locking system will secure the locks as

soon as you start to drive. This can be adjusted to be key-specific. ◀

To unlock and open the doors

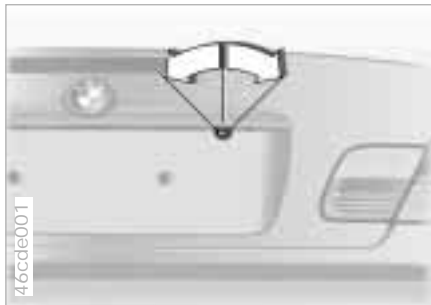
- ▷ Either unlock the doors at the same time using the button for the central locking system and then pull each of the release handles above the armrests, or
- ▷ pull the release handle for each door twice: the first pull unlocks the door, and the second one opens it.

To engage the locks

- ▷ Either use the central locking button to lock both doors at once, or
- ▷ press the individual safety lock buttons down. To prevent the driver from being inadvertently locked out of the vehicle, the driver's door safety lock button will not engage as long as the door is open.



Children might be able to lock the doors from the inside. For this reason, always take the vehicle's keys with you so that the vehicle can be opened again from the outside at any time. ◀



The lock

Only the master keys (refer to page 32) fit in the lock for the luggage compartment lid.

To secure separately

Turn the master key to the right past the resistance point and then pull it out in the horizontal position.

This locks the luggage compartment lid and disconnects it from the central locking system. If you surrender only the door and ignition key, for valet parking, for instance (refer to page 32), this will prevent unauthorized access to the luggage compartment.



Opening from outside

Press the button in the handle recess (arrow):

The luggage compartment lid opens slightly.

The luggage compartment is lit when the lid is opened.

Manual operation

(in the event of electrical malfunction)

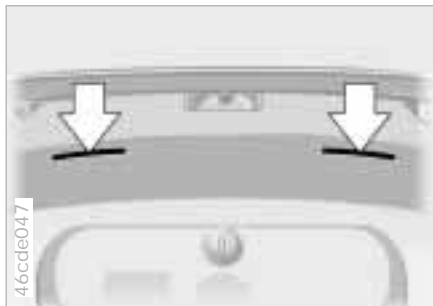
Turn the master key to the right as far as possible – the luggage compartment lid will open slightly.

The luggage compartment is locked again as soon as you close the lid.




Opening from the inside


If the luggage compartment lid has not been locked separately, you can open it with this button in the footwell on the driver's side when the vehicle is stationary.



Closing

The handle recesses in the interior trim panel of the luggage compartment lid (arrows) make it easier to pull the lid down.

 To avoid injuries, be sure that the travel path of the luggage compartment lid is clear when it is closed, as with all closing procedures. ◀

 Do not drive with the luggage compartment lid open, since exhaust fumes could penetrate the interior of the vehicle. Should it be absolutely necessary to operate the vehicle with the luggage compartment lid open:

- ▷ Close all windows.
- ▷ Increase the air supply for the air conditioner or automatic climate control to a high level. Refer to page [96](#) or [102](#). ◀




Hook in the floor panel

- 1 Press the button (arrow).
- 2 Grab the handle and pull up.



- 3 Raise and secure the floor panel by hanging it from the rubber seal ring for the run-off gutter (arrow).


 Carefully replace the hanger in its holder when lowering the floor panel back into place. ◀



Enlarging the luggage compartment

With the convertible top closed, you can enlarge the luggage compartment. To do this, flip the handle outward and press it down and toward the front of the car (arrow). The convertible top compartment panel is now raised and secured.

To prepare to open the convertible top, follow the steps in reverse order.

 When opening the convertible top, make sure that the luggage compartment is set up for this – see page 45 or 48, otherwise damage may be caused. ◀

To secure your luggage, use the luggage nets* or flexible straps that you can attach to the fittings at the inner corners of the luggage compartment. Refer also to "Cargo loading" on page 114.

The concept

The vehicle alarm system responds:

- ▷ When a door, the hood or the luggage compartment lid is opened.
- ▷ To movement inside the vehicle (interior motion sensor).
- ▷ To a change of the vehicle's tilt – if someone attempts to steal the wheels or tow the vehicle without authorization, for example.
- ▷ If there is an interruption in battery voltage.

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

- ▷ Sounding an alarm for 30 seconds.
- ▷ The hazard warning flashers are activated for approx. five minutes.
- ▷ The high beams flash on and off in the same rhythm.

To activate and deactivate the alarm system

When the vehicle is locked or unlocked by using a key or with the remote control, the alarm system is also simultaneously armed or disarmed.

The interior motion sensor and the tilt alarm sensor are activated approx. 30 seconds after you have finished locking the vehicle.

If the alarm system has been armed correctly, the hazard warning flashers flash once.



You can have a signal set as acknowledgment for both arming and disarming the alarm system. ◀

You can also open the luggage compartment lid when the system is armed by pressing button 3 of the remote control (refer to page 36). When it is closed, the lid is once again secured.

**Indicator lamp displays**

The indicator lamp is located under the interior rearview mirror.

- ▷ The indicator lamp flashes continuously: the system is armed.
- ▷ The indicator lamp flashes while the system is being armed: the door(s), the hood or luggage compartment lid are not completely closed. Even if you do not close the alerted area(s), the remaining areas are secure, and the indicator lamp will flash continuously after 10 seconds. However, the interior motion sensor is not activated.
- ▷ The indicator lamp goes out when the system is disarmed: no manipulation or attempted intrusions have been detected in the period since the system was armed.

Alarm system*

- ▷ The indicator lamp flashes for 10 seconds when the system is disarmed: an attempted entry has been detected in the period since the system was armed.

Following triggering of an alarm, the indicator lamp will flash continuously.

Avoiding unintentional alarms

The tilt alarm sensor and interior motion sensor may be switched off at the same time. You can do this to prevent a false alarm from being triggered (in garages with elevator ramps, for instance, or when the vehicle is transported by trailer or train):

Lock the vehicle (= arm the system) twice. Press button 2 on the remote control twice in succession or lock the vehicle twice with the key. Refer to [page 34](#).

The indicator lamp lights up briefly and then flashes continuously. The tilt alarm sensor and the interior motion sensor are deactivated as long as the system is armed.

Reset the alarm to reactivate the tilt alarm sensor and the interior motion sensor.

Interior motion sensor

Transmitter and receiver for the interior motion sensor are located in the front area of the center console, invisible to the driver, and in the back area of the center console under a rack.

However, be sure to deactivate the interior motion sensor (see previous column) if children or animals are to remain in the vehicle.

For US owners only


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

FCC ID: LTQSDR2G5

Compliance statement:

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

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

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

44 Electric power windows



Open and close the windows

From ignition key position 1:

- ▷ Press the switch up to but not past the pressure point:
The window will lower slightly, as long as you continue pressing the switch.
- ▷ Press the switch briefly past the pressure point:
The window will move automatically. Pressing the switch again stops the opening cycle.

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



Operate all the side windows

- ▷ Press the switch up to but not past the pressure point:
All of the windows will continue to lower as long as you continue to press the switch.
- ▷ Press the switch briefly past the pressure point:
All windows will move automatically. Pressing the switch again stops the opening cycle.

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

After the ignition has been switched off: You can still use the electric power windows for up to 15 minutes, as long as no one opens any of the doors.



Remove the key from the ignition lock and close the doors when you leave the vehicle, so that children cannot operate the power windows and possibly injure themselves. ◀

To use the convenience mode via the door lock, refer to page 34.


The manual convertible top

The fabric top offers perfect protection against weather and one person can open and close it easily and simply.

So that you will get the most out of your convertible, here are a few tips: it is advisable to close the convertible top when the vehicle is parked. The closed convertible top not only protects the passenger compartment from unforeseeable damage from the weather, it also provides a certain degree of theft protection.

In addition, keep valuables only in the locked luggage compartment, even with the convertible top closed.

Never mount a roof-mounted luggage rack on the convertible top.

 To close the electric power windows while driving: always be sure to close either the rear window first or all 4 windows at the same time, otherwise, at high speeds, the windows may not close completely. ◀



Open the convertible top



Operate the convertible top only when the vehicle is stationary. With the luggage compartment lid open, you will not be able to unlock the convertible top compartment lid to avoid any possible damage. ◀

- 1 Flip the locking handle out (see illustration), and turn it up to the end stop.
- 2 Raise the convertible top slightly (release the tension).



- 3 From ignition key position 1 on press the switch to unlock the convertible top. The convertible top unlocks and opens slightly. The side windows lower slightly.



If the indicator lamp comes on while the switch is pressed, the convertible top can not be released because the convertible top compartment panel is raised, refer to page 41. Fold down the convertible top compartment panel, and close the luggage compartment lid. ◀

46 The manual convertible top



- 4 Position the rear convertible top bow vertically and grip it firmly.



You can support the rear convertible top bow while lifting it up by pressing the designated area (arrow). ◀



- 5 Reach into the gap of the slightly opened convertible top compartment lid and open it all the way by hand (1).
- 6 Lay the rear convertible top bow in the convertible top compartment (2).

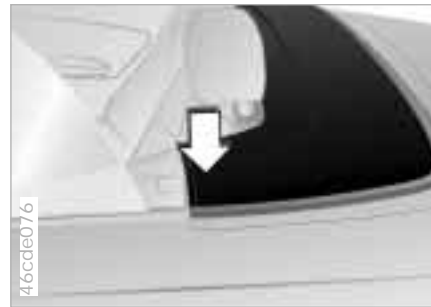


Release the rear convertible top bow before laying down the convertible top, otherwise the side trim panel could be damaged. ◀

- 7 Lift the top up at the front and move it toward the rear.



Push the convertible top completely into the convertible top compartment. This makes it easier to close the convertible top compartment lid, especially at lower temperatures. ◀




- 8 Press down slightly on the convertible top compartment lid from above (arrow). The closing procedure will then be carried out automatically.
- 9 Either close the slightly lowered side windows or move them into the desired position.



Operate the convertible top compartment lid from above only in order to avoid pinching.

If the convertible top compartment lid has not been closed properly, you will not be able to open the luggage compartment lid. This is to avoid any possible damage. ◀


Central locking will unlock automatically after the convertible top compartment lid has been closed, i.e., the luggage compartment lid is no longer locked and can be opened again.

 To avoid permanent damage from moisture, never store the convertible top when it is wet. Refer to the chapter "Care," starting on page 156). ◀





Closing the convertible top.

- 1 Put the ignition key in position 1.
- 2 Press the switch to unlock it.
The convertible top compartment lid will be unlocked and the side windows will lower slightly.
- 3 Open the convertible top compartment lid completely by hand.
- 4 Lift the convertible top out by the lateral guide section (1) and the front convertible top bow (2), swinging it forward until you encounter perceptible resistance.

 Position the rear convertible top bow vertically only after the convertible top has been swung toward the front, otherwise the side trim panel could be damaged. ◀

- 5 Either close the slightly lowered side windows or move them into the desired position.
- 6 Press down slightly on the convertible top compartment lid from above. The closing procedure will then be carried out automatically, refer to page 46.

 Operate the convertible top compartment lid from above only in order to avoid pinching. ◀

 After the convertible top compartment lid has been closed, the central locking system will unlock automatically, i.e. the luggage compartment lid is no longer locked and can be opened again. ◀

- 7 Holding on to the locking handle, pull the front part of the convertible top frame up onto the windshield frame, and lock the convertible top by turning the handle until you hear the convertible top engage.

The rear convertible top bow will automatically be pressed down onto the convertible top compartment lid and because of the tension, will close completely.



At higher speeds, the ensuing vacuum in the passenger compartment can cause the convertible top to begin fluttering. Increase the air supply via the ventilation controls so that a vacuum does not occur in the vehicle. ◀

The completely automatically operated convertible top combines assured protection against the elements together with simple, convenient handling. So that you will get the most out of enjoying your convertible, here are a few tips:

It is advisable to close the convertible top when the vehicle is parked. The closed convertible top not only protects the passenger compartment from unforeseeable damage from the weather, it also provides a certain degree of theft protection. In addition, keep valuables only in the locked luggage compartment, even with the convertible top closed.

Never mount a roof-mounted luggage rack on the convertible top.

To prevent damage, do not operate the convertible top at temperatures below - 10 °C.

To conserve the battery, only operate the top with the engine running if possible.

The convertible top operation is completely automatic. You will hardly ever need to support it by hand, refer to page 49.



Operate the convertible top only if the vehicle is parked and do not

start driving while the convertible top is in motion, because at certain points, this could possibly interrupt the process. A partially open convertible top can possibly lead to damage or injury.

If you initiated convertible top operation while the vehicle was standing still, and then start to drive off, you can complete the process at a traffic light, for example, while traveling at a moderate rate of speed. To do this, keep pressing the proper switch.

Traffic laws applicable in your area take precedence when you operate the convertible top, otherwise you may be breaking the law.

Before closing the convertible top, remove any objects from the windshield frame that could keep the convertible top from closing properly.

Do not lay objects on the convertible top, since they will fall off when the convertible top is in motion and cause damage or injuries.

To close the electric power windows while driving, always be sure to close either the rear windows first, or all four windows at the same time, otherwise, at high speeds, the windows may not close tightly.

Do not reach into the convertible top mechanism during opening and closing. Keep children away from the moving parts of the convertible top during operation.

The automatic sequence will be interrupted immediately if you release the button that operates the top. The sequence can be continued in the desired direction by pressing this button. ◀

▶ After having been stored for an extended period of time in the convertible top compartment – e.g. during the winter months because the hardtop* was being used – you may have to support the convertible top by hand when closing it for the first time: If the convertible top should halt just before the closing phase is completed, press against the front section of the convertible top frame from the outside to help the closing process along. Continue pressing the switch while doing so until the top starts up again on its own. ◀



Opening and closing

1 Closing

2 Opening

Continue pressing the button for operating the convertible top until the opening or closing process has ended. The side windows will lower slightly while it is being opened. When the top is being closed, the side windows will also close if you continue pressing the button after the convertible top has finished closing.

The red indicator lamp will light up while the convertible top is in motion. It will keep blinking after you release the button, if the opening or closing procedure was not completed properly.

The convertible top cannot be moved if the convertible top compartment panel is raised. In this case, the yellow indicator lamp will light up and stay on when the button is pressed, indicating that it is not possible to complete a convertible top operation.

Flip down the convertible top compartment panel; see page 41.

▶ If the opening or closing process has been interrupted, the convertible top will remain in that position for 15 minutes.

After that, the convertible top can be moved again and, if it is an emergency situation, you may need to help the top along manually. This can also be done in ignition key position 0.

The luggage compartment cannot be opened while the convertible top is in motion.

When operating the convertible top, the windows will lower slightly when you press on the switch, and after the opening operation has finished, they will move up again if you continue holding the switch down for more than 2 seconds after the indicator lamp has gone out. ◀



While the convertible top is in motion, the side windows will lower slightly. Do not close the side power windows using the switches if the convertible top has been interrupted while it is in motion.

In certain cases, the luggage compartment lid cannot be opened if the opening or closing operation has been interrupted.

Never store the convertible top while it is wet to avoid permanent damage from moisture.

While the convertible top is in motion, the rear window will move toward the passenger compartment and will gently press the heads of the passengers sitting in the rear forward. Normally, this is not dangerous. To avoid possibly being pinched, passengers in the back seat should lean their heads slightly forward while the convertible top is in motion. ◀

Convenient operation from the driver-side door lock

- ▷ To open: with the door closed, turn and hold the key in the "Unlock" position.
- ▷ To close: with the door closed, turn and hold the key to the "Lock" position.

Letting go of the key will stop the motion.

In order to keep the closing process in view, it is not possible to use the convenient operation via the remote control for safety reasons.



At higher speeds, the ensuing vacuum in the passenger compartment can cause the convertible top to begin fluttering. Increase the air supply via the ventilation controls so that a vacuum does not occur in the vehicle. ◀

Wind deflector*

The wind deflector keeps air movement in the passenger compartment to a minimum, thus providing you with a pleasant drive, even at higher speeds. The wind deflector comes in a protective sleeve, and because of its slim dimensions, can be easily stored in the luggage compartment.


Installing

- 1 Take the wind deflector out of its protective sleeve.




- 2 Flip out both side pieces and lock into place (arrow).



-  Hold the wind deflector so that the smaller half faces toward the front. ◀

- 3 Guide the mounting pin for the side piece into the proper opening.
4 Pull back on the mounting pin for the other side piece by using the slide, so that the mounting pin can be guided into the opening provided.
5 Unlock the convertible top compartment lid; see page 45 or 49, and open the convertible top compartment lid.
6 Flip the back half of the wind deflector backward, so that the mounts are lying on the vehicle.

- 7 Close the convertible top compartment lid. The wind deflector is now attached so that it is theft-proof.


 Operate the convertible top compartment lid from above only to avoid any pinching. With the wind deflector in place: never push the front seats all the way back to avoid damaging the wind deflector. ◀

Removing

Follow the same procedure as when installing in reverse order.

52 Seat adjustment

For your personal safety when adjusting the seat position, please follow the instructions below carefully:


 Never try to adjust your seat while driving the vehicle. The seat could respond with an unexpected movement, and the ensuing loss of vehicle control could lead to an accident. Be sure that the safety belt remains firmly against your body at all times. In the event of a frontal impact, a loose lap belt could slide over the hips, leading to abdominal injury. In addition, the safety belt's restraint effectiveness is reduced if the belt is worn loosely. Never ride with the backrest reclined to an extreme angle (especially important for the front passenger to remember), otherwise, you run the risk of sliding under the safety belt during an accident, thus negating the protection the safety belt provides. ◀

Correct sitting posture

To reduce strain on the spinal column, sit all the way back in the seat and rest your back fully against the backrest. The ideal sitting posture is achieved with your head extending from your spine in a straight line. For long-distance driving, you may wish to increase the backrest angle slightly to reduce muscular tension. You should be able to grasp the steering wheel at its highest point with your arms slightly bent.




- 1 Backward/Forward adjustment
- 2 Cushion height
- 3 Backrest angle

 Follow the setting instructions on this page. Failure to do so could result in diminished personal safety. ◀



Front headrests

1 Height

 Head restraints reduce the risk of injury to the cervical vertebra in the event of an accident.

Adjust the head restraint so that its center is approximately at the height of your ears.

When moving the headrests up or down, do not reach between the headrest and the upper edge of the backrest to avoid the possibility of injury. ◀




2 Tilt angle

Position the headrest in the preferred position.



Rear headrests

 The rear headrests are to be lowered only if there are no passengers riding in the back. Raise the rear headrests before taking on any passengers in the back. ◀

To completely lower the headrests in the back:

- 1 Press the button (arrow) and hold it down.
- 2 Push the headrest down from above.

Raising the rear headrests

Raise the headrests until you feel them click into place.



Do not remove the rear headrests, as this would damage them. ◀

For further information, please consult your BMW center.



Do not use the rear headrests as storage shelves. Always keep the travel path clear for the rollover protection system. Under no circumstances should you put any kind of protective cover on the headrests (refer also to the labeling on the headrests). ◀



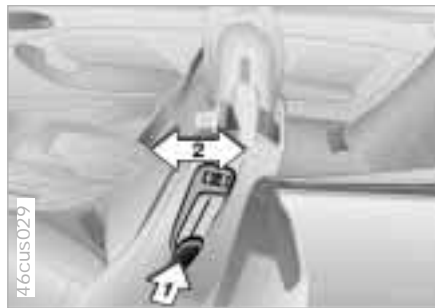
- 1 Tilt angle
- 2 Backward/Forward adjustment
- 3 Cushion height
- 4 Backrest angle



Please refer to the adjustment instructions on page 52 to reduce the risk of personal injury. ◀


**5 Thigh support**

- ▷ Pull the lever and adjust the position of the cushion for thigh support as desired.





The seat-integrated safety belt allows easy access to the rear. You do not need to adjust the safety belts. They automatically adapt to various body sizes.

- 1 Lift the lever (1) up and tilt the backrest forward.
- 2 Press the switch (2) toward the front of the car and hold it there until the seat moves to the desired position.

 You can lock a backrest that has been tilted forward. This makes sense when, for instance, someone is climbing into the rear on an incline. To do this, press against the backrest until you hear it click into place. To move it back into place, you do not need to unlock it by moving the lever (1). ◀

If you tilt the backrest back and hold the switch (2) pressed toward the back of the vehicle, the seat will return to its former position.

 If you let go of the switch (2) before the seat has returned to its former position, it will remain in the position where you leave it. To move it back into place, you do not need to unlock it by moving the lever (1). ◀

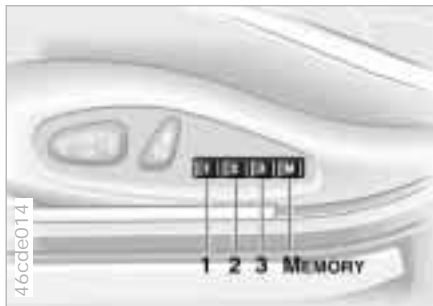
 Lock both backrests while driving, as otherwise there is danger of an unexpected movement causing an accident. The indicator lamp in the instrument cluster flashes if the backrest is not locked, refer to page 21. Then the indicator lamp comes on until the safety belt is fastened. ◀



You can adjust the backrest's contour for additional support in the curvature of your spine's lumbar region.

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

- ▷ Press front/rear of switch: Increase/decrease curvature.
- ▷ Press the upper/lower end of the switch: Increase the upper/lower curvature.



You can store and recall three different driver's seat and exterior mirror positions. The illustration shows the buttons on the driver's seat for making these adjustments.



The headrest setting is stored in the memory, but the lumbar support is not. ◀

To store

- 1 Ignition key from position 1 on.
- 2 Set the desired seat, headrest and exterior mirror positions.
- 3 Press the **MEMORY** button: the indicator lamp in the button lights up.
- 4 Press memory button 1, 2 or 3, as desired: the indicator lamp goes out.

To select a stored setting

Convenience function:

- 1 Open the driver's door after unlocking or turn the ignition key in position 1.
- 2 Briefly press memory button 1, 2 or 3, as desired.

The adjustment cycle is canceled immediately if you press a seat adjustment switch or one of the memory buttons.

Security function:

- 1 With the driver's door closed and the ignition key either removed or in position 0 or 2.
- 2 Maintain pressure on the desired memory button (1, 2 or 3) until the adjustment process is completed.

If you accidentally press the **MEMORY** button: press the button again; the indicator lamp goes out.



Do not select a memory position while the vehicle is moving. If you do so, there is a risk of accident from unexpected seat movement. ◀



Your BMW center can adjust your vehicle's systems in such a manner that your personalized settings are automatically set for the seat, headrest and exterior mirror positions when you unlock the vehicle with your personal remote control. ◀



If you make use of this method of adjustment, be sure that the footwell behind the driver's seat is unobstructed before unlocking the vehicle. If you fail to do so, persons or objects could be injured or damaged if the seat should move backward. ◀



Passenger side exterior mirror tilt function

(automatic curb monitor*)

- 1 Move the mirror selector switch 1 to the "driver's mirror" position.
- 2 When the selector lever is placed in "Reverse," the passenger-side mirror tilts downward. This allows the driver to see the area directly adjacent to the vehicle during parking (curbs, etc.).

You can deactivate this automatic feature: set the mirror selection switch to the "passenger side" position.



- 1 Push the locking lever downward.
- 2 Adjust the steering wheel (fore/aft and up/down) to the desired position.
- 3 Pull back the lever again to clamp the steering wheel in the new position.



Do not adjust the steering wheel while the vehicle is moving. If you do so, there is a risk of accident from unexpected movement. ◀



Exterior mirrors

- 1 Switch for 4-way adjustment
- 2 Selection switch for changing between mirrors

You can also adjust the mirrors manually by pressing against the outer edges of their lenses.



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

Electric heaters

Both mirrors are automatically heated with the ignition key in position 2.



Interior rearview mirror

To reduce glare from vehicles behind you when driving at night, tilt the mirror by turning the rotary button.

Sun visors

These can be folded down toward the windshield and swiveled out against the side window.



Interior rearview mirror with automatic dimming feature*

By responding to the effects of ambient light and the glare from following traffic, this mirror automatically dims through an infinitely-variable range.

The mirror switches to its clear, undimmed mode whenever the transmission is placed in reverse gear (selector lever in "Reverse").

To ensure that the mirror continues to operate properly, keep the two photocells clean and unobstructed. One photocell (arrow) is in the mirror glass, while the other is offset somewhat on the other side of the mirror.

For additional information on the electrochromic technology used in this mirror, refer to page [191](#).

Car Memory, Key Memory



How the system functions

You have probably frequently wished that you could configure individual functions of your vehicle to reflect your own personal requirements. In engineering your vehicle, BMW has included several user-defined functions in the vehicle's design. Your BMW center can make these settings for you in accordance with your wishes.

There are settings related to the vehicle ("Car Memory") and settings related to individuals ("Key Memory"). You can have up to four different basic settings adjusted for four different persons. The only requirement is that each person uses his or her own remote control key.

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

In order for you to distinguish between different keys, colored decals are supplied together with the keys.

What the system can do

Your BMW center can provide you with details on the capabilities of the Car Memory and Key Memory systems. A few examples follow below:

Examples for Car Memory:

- ▷ Various signals used as acknowledgement when locking or unlocking your vehicle.
- ▷ Deactivating/activating the Follow-Me-Home lamps function.
- ▷ Activating/deactivating daytime running lamps*.

Examples for Key Memory:

- ▷ Automatic adjustment of the driver's power seat.
- ▷ Locking your vehicle after starting off.
- ▷ When unlocking your vehicle, first unlock the driver's door, then the rest of the vehicle.



You will see this symbol throughout the Owner's Manual. It is to remind you at appropriate places of the settings that are available to you. ◀



Drive with your safety belt on

Fasten your safety belt at the beginning of every trip.

To fasten:

Make sure you hear the catch engage in the belt buckle.

To release:

Press the red button in the buckle, hold the belt firmly and guide it back into its reel.

The safety belt system will automatically adapt to your body contours.



Before putting on your safety belts in the rear, take them out of the holder. ◀

For care instructions, refer to page [154](#).



For your safety, please comply with the following instructions for wearing safety belts. If you do not, the safety belts may not be able to provide their maximum protection. The following information also applies to your passengers:

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.

Avoid twisting the belt while routing it firmly across your hips and shoulder. Do not allow the belt to rest against hard or fragile objects in your pockets. Never route the belt across your neck, do not run it across sharp edges and ensure that the belt does not become caught or jammed.

Avoid wearing clothing that prevents the belt from fitting properly. Pull on the belt periodically to readjust the tension across your shoulder. In the event of a frontal impact, a loose lap belt could slide over your hips, leading to abdominal injury. In addition, the safety belt's restraint effectiveness is reduced if the belt is worn loosely.

Expectant mothers should always wear the safety belt, taking special care to place the lap belt over the lower hips, where it does not exert pressure on the

abdominal area.

Leave the rear safety belts in the holders if they are not needed to avoid unwanted movement from the safety belts at high speeds. ◀


For child restraint system installation, refer to page [64](#).



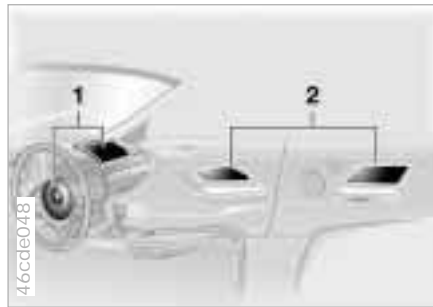
If the safety belt system has been subjected to the stresses involved in an accident or otherwise damaged: Have the entire safety belt mechanism replaced by your BMW center, including the safety belt tensioner. In addition, have your BMW center inspect the safety belt anchors. If a child restraint system was in the vehicle during an accident, consult the manufacturer's instructions regarding replacement. ◀

Safety belts

Child restraint systems*

 Do not install a rear-facing child restraint system in the front passenger seat of your vehicle. If you do so, the child could be injured in an accident when the airbag is triggered. Children should always ride in the rear and the restraint systems should be secured with the safety belts. Do not modify the child restraint system in any way. If you do so, it will not provide your child with maximum protection. ◀

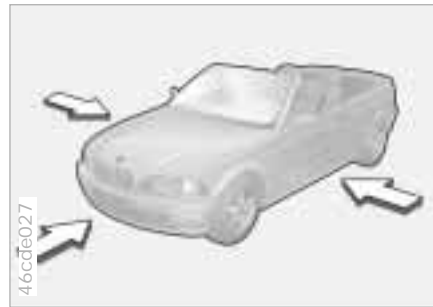
Airbags




- 1 Front airbags for driver and passenger
- 2 Side airbags for driver and passenger (front and rear*)


Protective effect

The front airbags protect the front-seat occupants in the event of a severe frontal collision on which the protection afforded by the belts alone may no longer be sufficient. The side airbags help provide protection in the event of a collision from the side. Each of the side airbags is designed to help support the occupant's upper body.



 The side airbags in the rear passenger area* of your vehicle may already have been deactivated either at the time of manufacture or by a BMW center. You may have them activated if you desire to do so. Please contact your BMW center for additional information. ◀

The illustration depicts schematically the primary directions of vehicle impact that initiate airbag deployment.

 The airbags will not be triggered in the event of a minor accident, a vehicle roll-over, or collisions from the rear. ◀

Operational status

The indicator lamp in the instrument cluster displays the operational status of the airbag system when the ignition key is in position 1 and higher.

System operational:

- ▷ The indicator lamp comes on briefly then goes out.

System malfunction:

- ▷ The indicator lamp fails to come on.
- ▷ The indicator lamp comes on briefly before going out, and then lights up again.

If there is a system malfunction, there is a risk that the airbags will not be triggered within their normal response range, even if the level of impact would normally have triggered them.

Have your BMW center inspect the system immediately.



The airbag indicator lamp also comes on if the safety belt tensioners have been triggered. ◀

Sitting correctly with airbags

For your safety, comply with the following instructions for the airbags. If you do not, the airbags may not be able to provide their maximum protection. All passengers in the vehicle should be aware of and comply with this information:

The airbags are supplemental restraint devices designed to provide extra protection; they are not a substitute for safety belts. Wear your safety belt at all times. The airbags will not be triggered in the event of a minor accident, a vehicle roll-over, or collisions from the rear. In these instances, the safety belt provides optimal protection.

Airbags are located under cover panels in the steering wheel, in the dashboard and in the side trim panels in the front and rear*.

Adjust your seat to a position that provides a maximum distance between you and the steering wheel, the instrument panel and the door while still allowing comfortable and safe access to all vehicle controls.

To avoid sustaining hand and arm injuries, always grasp the steering wheel on the rim with your hands at the 9 and 3 o'clock positions. Do not place your hands on the center pad.

Never allow any objects to obstruct the area between the airbag and an occupant.

Do not use the cover panel above the passenger-side airbag as a storage area.

Do not apply adhesive materials to the cover panels of the airbags, cover them or modify them in any other way.

Do not install a rear-facing child restraint system in the front passenger seat of this vehicle.

Children under 13 years of age and children less than 5 ft (150 cm) tall should ride only in the rear seat.

Infants or small children should never be held on the lap of a passenger.

If your car is equipped with side airbags in the rear passenger area*, be sure that child restraints are mounted correctly and provided with the greatest-possible distance between the airbags in the side trim panels. Do not allow children to lean out of the child's seat in the direction of the side trim panels. If they do so, serious injuries can occur if the airbag is triggered. ◀

Airbags



At all times, occupants should sit upright and be properly restrained (infants and small children in appropriate child restraint systems; larger children and adults using the safety belts). Never let an occupant's head rest near or on a side airbag because the inflating airbag could cause a serious or fatal injury. Please note that the word "Airbag" imprinted on the door trim panel indicates the airbag's location.

Accident research shows that the safest place for children in an automobile is in the rear seat. However, a child sitting in the rear seat and not properly restrained may place his or her head on or near the airbag, if so equipped. For example, a child – even though belted – may fall asleep with his or her head against the side airbag. It may be difficult for a driver to ensure that children in the rear seat will remain properly positioned at all times and not place their heads on or near the side airbag. Therefore, we recommend that the rear seat side airbags, if so equipped, be deactivated if children will travel in the rear seat.

The rear seat side airbags may already have been deactivated, either at the time of manufacture or by a BMW

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

Even when all these guidelines are observed, there is still a small residual risk of injuries to the face, hands and arms occurring in isolated instances. The ignition and inflation noise may induce a mild temporary hearing loss in sensitive individuals.

For additional information concerning the airbag system, refer to pages [159](#) and [189](#).

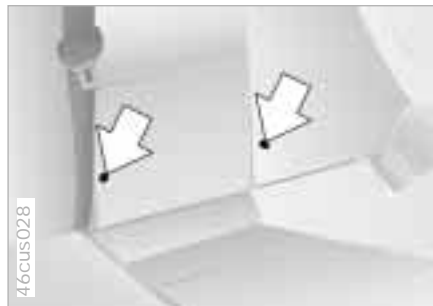


This is the right way for a child to sit in a child restraint when rear side airbags (arrow) are provided.



This is the right way for a larger child to sit wearing the safety belt when rear side airbags (arrow) are provided.


Transporting children safely




LATCH attachment of the child seat*

The mounts for the LATCH child-restraint system are located at the positions indicated by two colors, which are not visible from the outside.

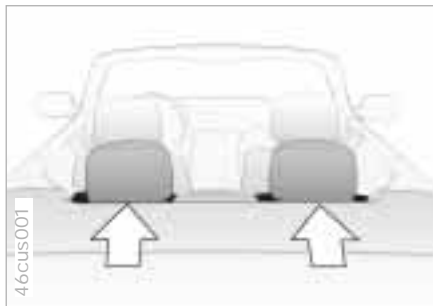
The illustration show the left rear seat.

 To mount the LATCH attachment of the child-restraint system, please follow the manufacturer's operating and safety precautions. ◀

Carefully press the brackets through the separating lines in the upholstery at the marked spots.

 Leave the rear safety belts in the holders if they are not needed to avoid unwanted movement from the safety belts at high speeds. ◀

Transporting children safely



Commercially available child seats complying with the legal standard are designed to be secured with a seat belt or with the seat belt portion of a combination lap/shoulder belt.

Improperly or inadequately installed restraint systems can increase the risk of injury to children. Always read and follow the instructions that come with the system.

If you use a child restraint system with a tether strap, two additional tether anchorage points (refer to the arrows in the illustration) have been provided. They are located under the convertible top compartment.

Depending on the location selected for seating in the rear passenger area, attach the tether strap to the corresponding anchorage point to secure the child restraint system.

Lift the respective headrest and pass the tether strap between the headrest and the seat back.

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



Before installing any child restraint device or child seat, please read the following:

Never install a rearward-facing child restraint system in the front passenger seat of this vehicle.

Your vehicle is equipped with an airbag supplemental restraint system for the front passenger. Because the backrest on any rear-facing child restraint system (of the kind designed for infants under 1 year and 20 lbs./9 kg) would be within the airbag's deployment range, you should never mount such a device in the front passenger seat, as the impact of the airbag against the child restraint's backrest could lead to serious or fatal injuries.

If it is necessary for a child (not an infant) to ride in the front seat, certain precautions should be taken. First, move the passenger seat as far away from the dashboard as possible. This important precaution is intended to maximize the distance between the

airbag and the child. Older children should be tightly secured with the safety belt. Younger children should be secured in an appropriate forward-facing child restraint system that has first been properly secured with a safety belt.

Never install a rear-facing child restraint system in the front passenger seat. We strongly urge you to carefully read and observe the instructions for installation and use provided by the child restraint's manufacturer whenever you use such a device.

Always ensure that all occupants (of all ages) remain properly and securely restrained at all times. ◀

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

66 Transporting children safely



Lock the safety belt

Extract the entire length of the belt from the inertia reel mechanism. Allow the reel to retract the belt somewhat and engage the buckle, then tighten the belt against the child restraint system. The retraction mechanism is now locked. The belt cannot be extracted further. Always comply with the installation instructions provided by the manufacturer of the child restraint system.

Unlock the safety belt

Release the safety belt, remove the child's seat and retract the safety belt to its end position on the belt retractor.

Child seat security

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

A label with the appropriate instructions for this is located in the immediate vicinity of the buckle latch of each safety belt.

In the event of an accident or some other critical driving situation (extreme tilting in the longitudinal or transverse axis, loss of contact with the ground), the rollover protection system will be automatically activated. The protective bars located in the rear headrests extend within fractions of a second.

In addition to the integrated rollover bar in the windshield frame, the rollover protection system gives all the vehicle occupants the necessary headroom.



Always keep the travel path clear for the rollover protection system. Under no circumstances should you cover the headrests.

In the event of less serious accidents, the safety belt will protect you and, depending on the severity of the accident, so will the safety belt tensioner and the multi-stage airbag restraint system. ◀



If, after being automatically triggered, the protective function is not needed, then the rollover protection system can be lowered back into place. No special tool is needed for this.

1 Using a screwdriver from the on-board tool kit, remove the cover panel; to do this, position the screwdriver under the notch (arrow).



2 Pull the lever (arrow) toward the front of the car and hold it in this position.

68 Rollover protection system



- 3 Continue pressing down on the protective bar (1) from above until you hear it click into place.
- 4 Replace the cover panel and press down firmly.
- 5 Press the rear section of the headrest closed (2).

Do the same for the second protective bar. If you are not familiar with these procedures, consult your BMW center.

Have the rollover protection system checked by your BMW center after it has been inadvertently triggered.



Do not move the convertible top under any circumstances if the rollover protection system has extended.

Do not use the rear headrests as storage shelves.

Absolutely no modifications are to be made to any of the rollover protection system's individual components or any of its wiring.

Only your BMW center is to carry out any work on the rollover protection system.

Work done on the system that is carried out improperly could lead to failure in an emergency or accidental airbag activation.


To have the system checked and to ensure long-term operation: be sure to adhere to the Service Interval Display for maintenance intervals. Every 2 years at the latest, the rollover protection system must be inspected by a BMW center. ◀



0 Steering lock engaged

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

After removing the key, turn the steering wheel slightly to the left or right until the lock engages.

 Vehicles with automatic transmission:

Do not move the selector lever from the "Park" position until the engine is running (ignition key at position 2). In order to turn the key back to position 0 or to remove it, move the selector lever into position "Park" first (Interlock). ◀

1 Steering lock disengaged


Turning the steering wheel slightly to the right or left often makes it easier to turn the key from 0 to 1.

Individual electrical devices are ready for operation.

2 Ignition on

All electrical devices and accessories are available for use.


3 Starting the engine

 Vehicles with manual transmission:

Step on the clutch when starting the vehicle. A lockout prevents the engine from starting if the clutch is not depressed. ◀

Before starting

- ▷ Engage the parking brake.
- ▷ Put manual-shift gear lever in the idling position or in P for automatic transmissions.
- ▷ Step on the clutch pedal.

 Do not run the engine in enclosed areas. The exhaust gases contain carbon monoxide, an odorless and colorless, but highly toxic gas. Breathing the exhaust gases poses an extreme health risk, and can lead to unconsciousness and death. Do not leave the vehicle unattended with the engine running. An unattended vehicle with a running engine represents a potential safety hazard. ◀

70 Starting the engine

Do not press the accelerator pedal while starting the engine.



Do not actuate the starter for too short a time, but do not actuate it for more than approx. 20 seconds. Release the ignition key immediately when the engine starts. Do not allow the engine to warm up by leaving it running while the vehicle remains stationary. Instead, begin driving immediately at a moderate engine speed. ◀

If the engine does not start on the first attempt (if it is very hot or cold, for instance):

- ▷ Press the accelerator pedal halfway down while engaging the starter.

Cold starts at very low temperatures, starting at about +5 °F (-15 °C) and at high altitudes over 3,300 ft (1,000 meters):

- ▷ On the first start attempt, engage the starter for a longer period (approx. 10 seconds).
- ▷ Press the accelerator pedal halfway down while engaging the starter.

Engine idle speed is controlled by the engine computer system. Increased speeds at start-up are normal and should decrease as the engine warms up. If engine speed does not decrease, service is required.

To prevent the battery from discharging, always deactivate electrical devices that are not in use. Switch the ignition off when the vehicle is not being driven.

Switching off the engine

Turn the ignition key to position 1 or 0.



Do not remove the ignition key while the vehicle is still moving. If you did so, the steering lock would engage when the steering wheel is turned.

Whenever you leave the vehicle, always remove the ignition key and lock the steering wheel.

Vehicles with manual transmission: Always apply the parking brake when parking on slopes and inclined surfaces, since placing the shift lever in 1st gear or reverse may not provide adequate resistance to rolling.

Vehicles with automatic transmission: Place the selector lever in "Park." ◀

Parking brake



To engage

The parking brake is designed primarily to prevent the vehicle from rolling when it is parked. It operates against the rear wheels.

The lock engages automatically when you lift the lever, and the indicator lamp in the instrument cluster comes on when the ignition key is in position 2.

Refer to page [21](#).

To release

Pull up slightly on the lever, press the button (arrow) and lower the lever.



If, in exceptional circumstances, it should be necessary to engage the parking brake while the vehicle is in motion, do not pull the lever with excessive pressure. Keep your thumb pressed against the release button while carefully pulling the lever up to apply moderate pressure. Excessive pressure can lead to over-braking and loss of traction (fishtailing) at the rear axle.

The brake lamps do not come on when the parking brake is applied.

Vehicles with manual transmission:

Always apply the parking brake when parking on slopes and inclined surfaces, since placing the shift lever in 1st gear or reverse may not provide adequate resistance to rolling.

Vehicles with automatic transmission:

Place the selector lever in "Park." ◀

To avoid corrosion and one-sided braking, apply the parking brake lightly from time to time when coasting to a standstill (at a traffic signal, for instance), provided that it is safe to do so.



Press the clutch pedal all the way down each time you shift, pressing the manual-shift gear lever into its proper end position.

Depress the clutch when starting the vehicle, too, otherwise, lockout will prevent the engine from starting.

The shift lever's neutral plane (dot in the illustration) is located between 3rd and 4th gears.

When shifting from each gear into "Neutral," the shift lever returns automatically to this neutral position because of its spring loading.

Reverse

Select only when the vehicle is stationary. Press the shift lever to the left to overcome the slight resistance.

As you do this, the backup lamps will turn on automatically when the ignition key is in position 2.



Do not hold the vehicle in place on slopes by slipping or "riding" the clutch. Use the parking brake instead. Otherwise, riding the clutch will cause tremendous wear and tear to the clutch. ◀

You have the option of driving with a normal automatic transmission or switching to manual.

When you move the selector lever from the "D" position to the left into the M/S range, the performance-oriented shift programs of the automatic transmission are engaged. As soon as you briefly touch the selector lever in the "+" or "-" direction, Steptronic shifts gears and manual operation becomes active. Whenever you want to use the automatic mode again, move the selector lever to the right into position "D."

The automatic transmission with Steptronic is equipped with Adaptive Transmission Control (ATC). ATC reacts with precision to your individual driving style and the current driving conditions. It is for this reason that various shift programs are used.

You will find additional information about ATC in the chapter called "Advanced Technology" on page 188.



Selector lever positions


P R N D M/S + -


Starting the engine

The engine can only be started in selector lever positions P ("Park") or N ("Neutral").

Range selection

A detent prevents inadvertent shifts into certain selector lever positions. To release the shift-lock mechanism, press the button on the front side of the selector handle (arrow).

 While the vehicle is stationary and before shifting out of "Park" or "Neutral," depress the brake, otherwise you will not be able to move the selector lever (Shiftlock). Hold the footbrake down until starting off. Otherwise the vehicle will "creep" when a drive position is engaged. ◀

 If you leave the vehicle with the engine running, move the selector lever to the "Park" or "Neutral" position and apply the parking brake. If you fail to do this, the vehicle could move. Do not leave the vehicle unattended with the engine running. An unattended vehicle with a running engine represents a potential safety hazard. ◀

P Park

Select only when the vehicle is stationary. The transmission locks to prevent the rear wheels from turning.

R Reverse

Select only when the vehicle is stationary.

N Neutral

Select "Neutral" only if your journey is interrupted for a longer period.

D Drive (automatic shift program)

This position is designed for driving under all normal operating conditions. All forward gears are available and the ATC is fully operational.

"Kickdown"

In the "kickdown" mode, you achieve maximum performance. To activate this mode, depress the accelerator pedal beyond the full-throttle position, at which a resistance point must be overcome.



M/S Manual mode and Sport Program

Shifting from D into M/S activates the Sport Program and indicates SD in the gear indicator. This position is recommended for a performance-oriented driving style.

With the first brief touch, the automatic transmission shifts from the Sport Program to the manual mode. When you move the selector lever forward in the "+" direction, the transmission shifts up. When the lever is moved back in the "-" direction, the transmission shifts down. M1 to M5 appear in the gear indicator.

Upshifts or downshifts will be carried out by the ATC only at appropriate engine and road speeds, e.g. the engine will not downshift if engine speed is too high. The gear selected will appear briefly in the instrument cluster followed by the current gear.



To accelerate quickly in the manual mode (to pass another vehicle, for instance), shift down manually or employ the "kickdown" mode. ◀

Shifting from M/S to the selector lever positions P, R and N is possible only by going through D.

In the following situations, the Steptronic "thinks" for you in the manual mode:

- ▷ In order to prevent the engine from overrevving, the transmission shifts automatically to the next higher gear just before the RPM cutoff point.
- ▷ At low speeds, the transmission shifts down automatically and you do not have to act
- ▷ In the "kickdown" mode, the transmission shifts down to the lowest gear which is possible, depending on the engine speed.
- ▷ Depending on the situation – when driving in adverse winter conditions, for example – you may also start out in 2nd or 3rd gear.



Possible displays

P R N D SD M1 M2 M3 M4 M5

Electronic transmission control module



If the indicator lamp comes on, there is a malfunction in the transmission system.

Bring the vehicle to a stop. Move the transmission selector lever to "P." Set the parking brake and turn the engine off (ignition key to position 0).

Wait a few seconds, then start the engine.

If the indicator lamp goes out after a few seconds, normal transmission performance has been restored. You may continue to drive as usual.

If the indicator lamp does not go out, you can place the selector lever in all positions. However, the vehicle will now only operate in 3rd and 4th gear.

If this happens, avoid extreme engine loads and consult the nearest BMW center.



Do not work in the engine compartment when a drive gear (forward or reverse) is engaged. If you do this, the vehicle could move. ◀

For towing or jump-starting, refer to the information beginning on page [183](#).

76 Turn signal indicator/Headlamp flasher



- 1 High beams (blue indicator lamp)
- 2 Headlamp flasher (blue indicator lamp)
- 3 Turn signal indicator (green indicator lamps accompanied by a periodic clicking sound from the relay)

If the indicator lamp and the clicking from the relay are both faster than normal, one of the turn signal indicators has failed.

To signal briefly

Press the lever up to but not beyond the detent. It will then return to the center position when released.

Washer/Wiper system



- 0 Wipers retracted
- 1 Intermittent mode or rain sensor
- 2 Normal wipe
- 3 Fast wipe
- 4 Brief wipe
- 5 Cleaning windshield
- 6 Rotary dial for controlling the wipe interval or the sensitivity of the rain sensor



1 Intermittent mode or rain sensor*

Intermittent mode:

You can use rotary dial 6 to select from four wipe intervals.

In addition, the wipe interval is varied automatically depending on road speed.

Rain sensor:

The rain sensor is positioned on the windshield, directly ahead of the interior rearview mirror. When the rain sensor is activated, the windshield wiper is controlled automatically, depending on the degree of wetness on the windshield (in both snow and rain). You do not have to be concerned with switching the windshield wiper on or off or adjusting the wipe interval between

intermittent and full wipe. Instead, you can concentrate fully on the traffic conditions. This is especially important under adverse weather conditions.

To activate the rain sensor:

From ignition key position 1 and up, you can move the lever to position 1. The wipers travel once across the windshield, regardless of the weather.

You can leave the lever permanently in position 1. It is then only necessary to activate the rain sensor from ignition key position 1 and up. To do this,

- ▷ turn rotary dial 6 briefly or
- ▷ use cleaning windshield 5.

To adjust the sensitivity of the rain sensor:

Turn rotary dial 6.

Deactivating the rain sensor:

Put lever in position 0.



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

2 Normal wiper speed

When the vehicle is stationary, the wipers switch automatically to intermittent wipe (not on vehicles with rain sensor).

3 Fast wiper speed

When the vehicle is stationary, the wipers operate at normal speed (not on vehicles with rain sensor).

5 Cleaning windshield

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

If you pull the lever only briefly, the system sprays washer fluid onto the windshield without activating the wipers.

Cleaning headlamps*

When the vehicle's lighting system is switched on, the headlamps will also be cleaned every fifth time cleaning windshield is activated.



Do not use the washers if there is any danger that the fluid will freeze on the windshield. If you do so, your vision could be obscured. Use an antifreeze agent. Refer to page [144](#). Do not use the washers if the reservoir is empty, as otherwise the washer pump could be damaged. ◀

Windshield washer jets

The windshield washer jets are heated automatically* when the ignition key is in position 2.



The illustration shows the button setup for vehicles equipped with automatic climate control. For other layouts, refer to page [96](#).

To activate

Press the button with the convertible top closed or the hardtop mounted: as long as the indicator lamp remains on, the rear window defroster operates at high output (rapid thaw).

After the indicator lamp goes out, the defroster continues operating at reduced power for a limited period before deactivating automatically.

To deactivate

Press the button if the indicator lamp is on.

Cruise control



Starting at about 20 mph (30 km/h), you can maintain and store any vehicle speed that you specify.



Do not use the cruise control on winding roads, when high traffic density prevents driving at a constant speed, when the road surface is slick (snow, rain, ice), or when the road surface is loose (rocks, sand). ◀

To activate the system

From ignition key position 1:
Press button 1. The indicator lamp in the instrument cluster comes on. You can now use the cruise control.

To store and maintain speed or to accelerate

Press button 3 briefly:

The system registers and maintains the current vehicle speed. Every time you press the button, the speed increases by approx. 0.6 mph (1 km/h).

Press and hold button 3:

The vehicle accelerates without pressure on the accelerator pedal. When you release the button, the system registers and maintains the current speed.



If, on a downhill gradient, the engine braking effect is not sufficient, the set cruise control speed may be exceeded. Speed can drop on uphill grades if the engine output is insufficient. ◀

To decelerate

Press button 2 briefly:

When the cruise control is active, vehicle speed is reduced by approx. 0.6 mph (1 km/h) every time you tap the button.

Press and hold button 2:

With the cruise control active, the system automatically reduces the throttle opening to slow the vehicle. When you release the button, the system registers and maintains the current speed.

To interrupt the cruise control

When the system is activated, press and hold button 1. The indicator lamp stays on. You can use the cruise control again as desired.

In addition, cruise control is canceled automatically:

- ▷ If the brakes are applied.
- ▷ When you apply pressure to the clutch pedal, and when you move the automatic transmission selector lever from "Drive" to "Neutral".
- ▷ If you exceed or fall below the programmed speed for an extended period (by depressing the accelerator, for example).

To resume the stored setting

Press button 4:

The vehicle accelerates to and maintains the last speed stored. When you turn the ignition key to position 0, the stored speed is deleted and the system is deactivated.

To deactivate the system

When the cruise control has been interrupted, press button 1 again. The indicator lamp goes out and the stored speed is deleted.



1 Odometer

You can activate the displays shown in the illustration with the ignition key in position 0 by pressing the button in the instrument cluster (arrow).

2 Trip odometer

To reset the trip odometer to zero, press the button (arrow) with the ignition key in position 1 and up.



Avoid engine speeds in the red warning zone of the gauge.

To protect the engine, the fuel supply is automatically interrupted in this zone; you will notice a loss of power.



Indicates current fuel consumption in mpg (in l/100 km on Canadian vehicles). You can check your current driving style to see whether it is conducive to economy and minimum exhaust emissions.

When the vehicle is stationary, the display goes to "Maximum" (zero on Canadian vehicles).

82 Fuel gauge



When you switch on the ignition, the indicator lamp comes on briefly to confirm that the system is operational.

Once the indicator lamp stays on continuously, there are still approx. 2 gallons (8 liters) of fuel remaining in the fuel tank.

For fuel tank capacity: refer to page 199.

If the tilt of the vehicle varies (extended driving in mountainous areas, for example), there may be slight fluctuations of the needle.



Fill the fuel tank well before it is empty. Driving to the last drop of fuel can result in damage to the engine and/or the catalytic converter. ◀

Coolant temperature



Blue

The engine is still cold. Drive at moderate engine and vehicle speeds.

Red

When you switch on the ignition, the indicator lamp comes on briefly to confirm that the system is operational.

If the lamp comes on while operating the vehicle: the engine is overheated. Stop and switch the engine off immediately and allow it to cool down.

Between the blue and red zones

Normal operating range. It is not unusual for the needle to rise as far as the edge of the red zone in response to high outside temperatures or severe operating conditions. To check the coolant level: refer to page 147.

Service Interval Display

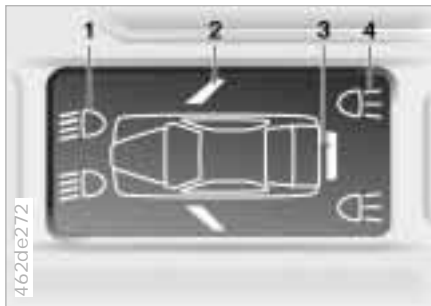


Remaining distance for service

The displays shown in the illustration appear for a few seconds when the ignition key is in position 1 or after the engine is started.

The next service due appears with the message OILSERVICE or INSPECTION, together with the distance remaining before the next scheduled service. The computer bases its calculations of the remaining distance on the preceding driving conditions.

A flashing message and a "-" in front of the number mean that the service interval has already been exceeded by the distance shown on the display. Please contact your BMW center for an appointment.



The following information and/or conditions are indicated using symbols, starting with the ignition key in position 2, until the condition has been corrected:

- 1 Inspect the low-beam and high-beam headlamps, as well as the side lamps
- 2 Door open
- 3 Luggage compartment lid open
- 4 Check brake and tail lamps

When you open the driver's door after stopping with the lights still on, a warning signal sounds for LIGHTS ON.



Mode selection

From ignition key position 1 on, you can call up information from the computer using the button in the turn signal lever. Every time you press the button briefly in the direction of the steering column, you can call up a new function for display.

The displays appear in the following order:

Time, outside temperature, average fuel consumption, cruising range, average vehicle speed.

From ignition key position 1 on, the last active setting is displayed.

Clock

If you wish to have a permanent time display, you can make this adjustment in the radio display (refer to the Radio Owner's Manual).

You can adjust the clock and the time display in the car radio as follows.

**Adjustments**

From ignition key position 1:

To set ahead: turn the right button to the right.

To set back: turn the right button to the left.

The adjustment speed will increase the longer you hold the button down.

To change the display mode: press the knob briefly.

Every time you press the knob, the clock display alternates between the 12-hour or 24-hour mode.

In ignition key position 0: the time is displayed for a few seconds after you press the left button (refer to "Odometer" on page [81](#)).

**Outside temperature**

You can change the units of measure (°C/°F) for the outside temperature display by pressing the right-hand reset button in the instrument cluster while the temperature display is active.

Computer

Ice warning

If the outside temperature drops to about 37.5 °F (+3 °C), then the computer will automatically switch to show the outside temperature. In addition, a signal sounds as a warning and the display flashes for a brief period.

This warning will repeat itself whenever the temperature climbs to at least 43 °F (+6 °C) since the last warning, and has then drops back to 37.5 °F (+3 °C).



Ice warnings do not exclude the possibility that surface ice can still occur at temperatures above 37.5 °F (+3 °C), e.g. on bridges and shady roads. ◀



Average fuel consumption

If you continue to hold the button on the turn signal lever, the average fuel consumption last displayed is recalculated from that point in time.



Range

The computer bases its calculations of the cruising range on the previous driving style and the amount of fuel remaining.



Average speed

If you continue to hold the button on the turn signal lever, the average speed currently displayed is recalculated from that point in time.

Any time spent when the vehicle is stationary and the engine is shut off is ignored for the calculation.

The concept

The PDC assists you when you back into a parking space. A signal warns you of the distance to an obstacle. To do this, four ultrasonic sensors in the rear bumper measure the distance to the nearest object. The range for the sensors located at both rear corners ends approx. 2 ft (60 cm) behind the bumpers. The two center sensors cover a distance of approx. 4.9 ft (1.50 meters).

The system starts to operate automatically about one second after you select reverse with the ignition key in position 2. PDC is deactivated when you shift back out of reverse.

Acoustical signals

The distance to the nearest object is indicated by a tone sounding at various intervals. As the distance between vehicle and object decreases, the intervals between the tones become shorter. A continuous tone indicates the presence of an object less than 1 ft (30 cm) away.

The warning signal is canceled after approx. three seconds if the distance to the obstacle remains constant during this time (if you are moving parallel to a wall, for instance).

System malfunctions will be indicated by a continuous high-pitched tone when the system is activated the first time. Please refer the problem to your BMW center.



The PDC does not remove the driver's personal responsibility for evaluating the distance between the vehicle and any obstacles. Even when sensors are involved, there is a blind spot in which objects cannot be detected. This applies especially in those cases where the system approaches the physical limits of ultrasonic measurement, as occurs with tow bars and trailer couplings, and in the vicinity of thin and painted objects. Certain sources of sound, such as a loud radio, could drown the PDC signal tone. ◀



Keep the sensors clean and free of ice or snow in order to ensure that they continue to operate effectively. Do not subject the sensors to high-pressure washers for a prolonged period of time. Always maintain a distance of more than 4 in (10 cm). ◀

The concept

These systems enhance driving stability and traction, especially when you are just starting off, accelerating or in curves.

ASC+T recognizes the danger present in traction loss and will increase driving stability and traction by reducing the engine's output, and if necessary, by applying the brakes to the rear wheels.

ASC+T is available as soon as the engine starts up.

Indicator lamp



The indicator lamp in the instrument cluster goes out shortly after you switch on the ignition.

Refer to pages [21](#) and [22](#).

Indicator lamp flashes:

ASC+T controls the drive and braking forces.

If the indicator lamp fails to go out after the engine is started, or if it comes on during normal driving and stays on:

There is a system malfunction or the system was deactivated with the button. Consequently, interventions to increase driving stability (as described in the preceding column) are not available. You can still drive the vehicle normally without ASC+T.

Please consult your BMW center in the event of a malfunction. Refer to pages [21](#) and [22](#).



Deactivating the ASC+T

Press the button; the indicator lamp comes on and stays on.

The illustration depicts the arrangement of the buttons if the vehicle is fully equipped. This may vary, depending on the equipment actually installed.

In the following exceptional situations, it may be effective to deactivate the ASC+T or DSC for a brief period:


- ▷ When rocking the vehicle or starting off in deep snow or on loose surfaces.
- ▷ When driving with snow chains.
Refer also to page [127](#).



To maintain vehicle stability, drive with the ASC+T activated whenever possible. ◀

Reactivating ASC+T

Press the button again; the indicator lamp goes out.

 The laws of physics cannot be repealed, even with ASC+T. It will always be the driver's responsibility to drive in a manner that matches road conditions. This is why you should not use the additional safety margin the system provides as an excuse to take risks. ◀

For additional details concerning ASC+T, please refer to the chapter "Advanced Technology" on page [189](#).

The concept

DSC maintains vehicle stability, even in critical driving situations.

The system optimizes vehicle stability during acceleration and when starting from a full stop, as well as optimizing traction. In addition, it recognizes unstable vehicle conditions, such as understeering or oversteering, and, as far as is possible within the laws of physics, helps keeping the car on a steady course by reducing the RPMs and brake applications to the individual wheels.

The DSC is operational every time you start the engine. DSC includes the functions of ADB and CBC, refer to page [123](#).

The ADB (Automatic Differential Braking) copies the function of conventional differential and transverse lock through brake intervention, and increases traction whenever conditions merit, e.g. when driving on snow-covered roads.

If the DSC is switched off the ADB will still be in ready mode.

Indicator lamp



The indicator lamp in the instrument cluster goes out shortly after you switch on the ignition.

Refer to page [21](#), [22](#).

Indicator lamp flashes:
DSC controls the drive and braking forces.

The indicator lamp stays lit:
DSC has been switched off via the button; ADB is operational.
ADB control intervention is not indicated.



The indicator and the brake warning lamps will remain on the continuously:



The DSC, ADB and DBC have been switched off via the button or are defective.

The vehicle will remain completely operational, however, without DSC. In the event of a fault, please see your BMW center. Refer to page [21](#), [22](#).



Indicator and warning lamps for Canadian models.





Switch DSC off/activate ADB

Press the DSC button briefly; the indicator lamp comes on and stays on.

DSC has been switched; ADB is operational.

In the following exceptional circumstances, it may be effective to deactivate the ADB for a short period:

- ▷ When rocking the vehicle or starting off in deep snow or on loose surfaces.
 - ▷ When driving on snow-covered grades, in deep snow, or on a snow-covered surface that has been packed down from being driven on
 - ▷ When driving with snow chains.
- Refer also to page [128](#).

The gain in traction is achieved by a reduction in stabilizing intervention.

Switch DSC and ADB off

- ▷ Hold the DSC switch down for at least 3 seconds. The indicator lamp and the yellow brake warning lamps will remain on continuously.

In this case, no interventions to increase stability and traction for engine and brakes are carried out.

- ▷ To maintain vehicle stability, always drive with DSC switched on as often as possible. ◀

Switch DSC and ADB on again

Press the button again; the indicator lamp or the indicator lamps will go out.



The laws of physics cannot be repealed, even with DSC. It will always be the driver's responsibility to drive in a manner that matches road conditions. We therefore urge you to avoid using the additional safety margin of the system as an excuse for taking risks.

The DSC will not carry out any stabilizing intervention when the ADB is in ready mode.

Do not make any modifications to the DSC system. Allow only authorized technicians to perform service procedures on the DSC. ◀

For additional details concerning DSC, please refer to the chapter "Advanced technology" on page [189](#).

Tire Pressure Control (RDC)*

The concept

RDC monitors the tire pressures at all four wheels, even when the vehicle is moving. The system provides an alert whenever the inflation pressure drops significantly below the specified pressure in one or more tires.

In order for the system to "learn" the correct tire inflation pressure, check the inflation pressure in all tires according to the inflation pressure table (page 28) and make corrections if necessary. Then activate the system.



This indicator lamp in the instrument cluster will inform you if the tire pressure is not correct.



Activate the system

Depending on the type of equipment, the switch either has the letters RDC on it or the RDC-symbol.

- 1 Turn ignition key to position 2 (do not start the engine).
- 2 Press the switch long enough for the yellow indicator lamp in the instrument cluster to light up for a few seconds.
- 3 After a few minutes driving time, RDC sets the current inflation pressure in the tires as the target values to be monitored.

You will only have to repeat this procedure following a correction of the tire inflation pressure. Otherwise, RDC functions automatically when the ignition key is in position 2, and thus operates whenever the vehicle is driven.

In the event of loss in tire pressure

If the inflation pressure has dropped significantly over a long period of time (which is normal for any tire), the indicator lamp will come on with a yellow lamp.

This alerts you to have the tires inflated to the specified pressures as soon as possible.



If you are prompted to check the tire pressure shortly after a correction has been made, this indicates that the corrected values were not accurate. Please check the inflation pressure again and make corrections according to the inflation pressure table. Then activate the system once again. ◀

In the event of a flat tire

If there is a tire failure with loss of pressure, the indicator lamp comes on with a red lamp. In addition, an acoustic signal is sounded.

If this occurs, reduce vehicle speed immediately to stop the vehicle in a safe location. Avoid hard brake applications. Do not oversteer. Replace the wheel and flat tire.



The space-saver spare tire is provided for temporary use only in the event of a flat tire. It does not have RDC electronics and is not monitored. ◀



RDC cannot alert you to severe and sudden tire damage caused by external factors. ◀



Have the tires changed by your BMW center. Your BMW center has been trained to work with the RDC system and is equipped with the necessary special tools. ◀

System interference

Local devices using the same radio frequency can interfere with the RDC.

The yellow indicator lamp will come on during the malfunction.

The indicator lamp also comes on

- ▷ in the event of a system fault.
- ▷ if a wheel is mounted without RDC electronics.
- ▷ if additional wheels with RDC electronics are on board.

Please contact your BMW center for additional information.

Side lamps/Low beams



Side lamps



With the switch in this position, the front, rear and side vehicle lighting is switched on.

For lighting on one side for parking as an additional feature, see page [94](#).

Low beam headlamps



When you switch the ignition off with the low beam headlamps on, only the side lamps will remain on.



"Follow-me-home" lamps:

If you activate the headlamp flasher after parking the vehicle, the low-beam headlamps will come on for a short time. You can also have this function deactivated. ◀

"LIGHTS ON" warning

When you open the driver's door after turning the ignition key to position 0, a buzzer sounds for a few seconds to remind you that the headlamps have not been switched off.

Daytime running lamps*

If you desire, the light switch can be left in the second position:

When the ignition is switched off, the external lighting is also switched off.

Instrument panel lighting 93



Turn the rotary dial to adjust the illumination intensity.



- 1 High beams (blue indicator lamp)
- 2 Headlamp flasher (blue indicator lamp)
- 3 Parking lamps

Parking lamp, left or right

As an additional feature, you can illuminate your vehicle on either side for parking, if you wish to do so:
With the ignition key in position 0, push the lever in the appropriate direction. The lever engages in the turn signal position.



Fog lamps



A green indicator lamp appears in the instrument cluster to indicate that the fog lamps are on.

Interior lamps



The interior lamps operate automatically.

To switch the interior lamps on and off manually

Press the button briefly.

If you want the interior lamps to remain off all the time, press and hold the button for approx. 3 seconds.

To revert to normal operation, press the button briefly.

Footwell lamps

The footwell lamps operate in the same way as the interior lamps.



Reading lamps front


The reading lamps can be switched on and off by their respective button, which is next to them.



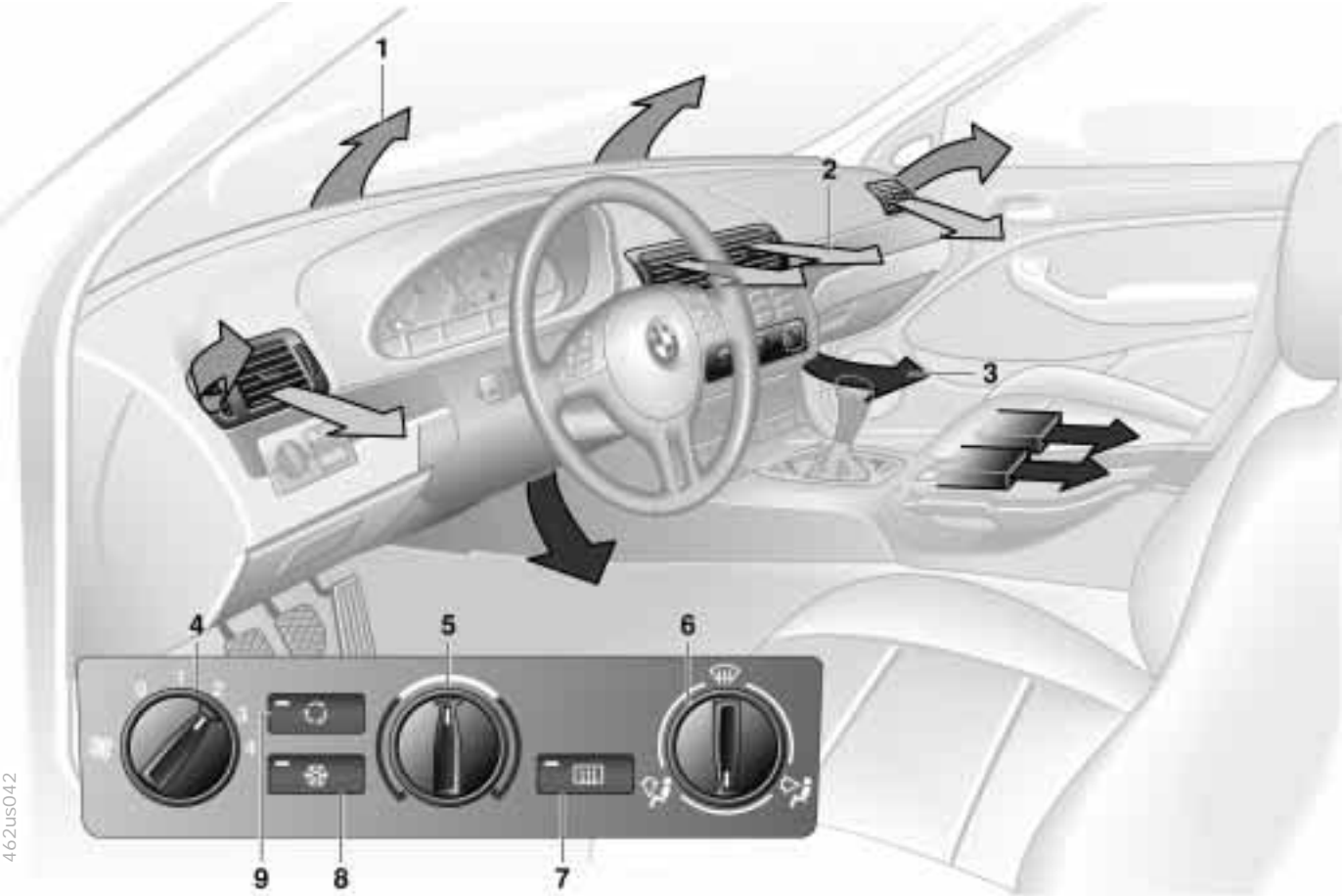
Reading lamps rear

In the hardtop, the reading lamps are located in the rear as well, refer to page [130](#) or [172](#).

The reading lamps can be switched on and off by their respective button, which is next to them.




 In order to prevent battery discharge, all of the lamps in the vehicle are switched off automatically approx. 15 minutes after the ignition key has been turned to position 0. ◀

96 **Air conditioner**



462us042

Air conditioner

- 1 Air onto the windshield and onto the side windows
- 2 Air for the upper body area
The side rotary dials open and close the air supply through an infinitely-variable range; the levers will change the direction of the air flow. The center rotary dial controls the temperature of the air as it flows out. Refer to page [98](#)
- 3 Air for the front footwell
There are also vent outlets for the rear footwell as well
- 4 Air supply
Heating and ventilation are available starting with position 1. Refer to page [98](#)
- 5 Temperature [98](#)
- 6 Air distribution toward
 - ▷ the windows 
 - ▷ the upper body 
 - ▷ the footwell 
 All intermediate settings are possible.
Refer to page [98](#)
- 7 Rear window defroster [98](#)
- 8 Air conditioner [98](#)
- 9 Recirculated-air mode [98](#)





Air supply

You can select blower speeds from 1 to 4. The heating and ventilation become more and more effective as the air supply settings are increased. In position 0, the blower and the heater are switched off. By using position 0, you can totally block the interior ventilation outlets by pressing the button for the recirculated-air mode.

Temperature

In order to increase the temperature of the passenger compartment, turn it to the right (red). Temperature regulation will keep the interior temperature you have selected constant.

Air distribution

You can direct air to flow onto the windows , toward the upper body  and into the footwell . All intermediate settings are possible. In the  setting, there is a low flow of air onto the windows to keep them free of condensation. The "6 o'clock" setting is recommended as a normal setting (refer also to the illustration and overview on page 96).

Rear window defroster

When the rear window defroster is activated, the indicator lamp comes on. The rear window defroster switches off automatically. Refer to page 78.

Air conditioner

The air is cooled and dehumidified and – depending on the temperature setting – rewarmed when the air conditioner is switched on. Depending on the weather, the windshield may fog over briefly when the engine is started. Use the button to switch the air conditioner off at outside temperatures below approx. 41 °F (+5 °C). This will help to prevent the windows from fogging up. If the windows fog over after switching the air conditioner off, switch it back on.



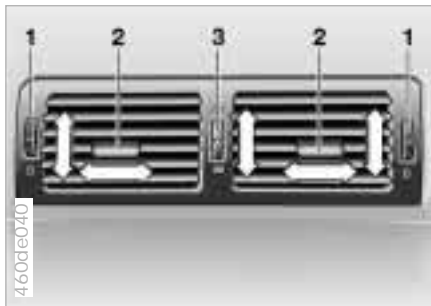
Condensation forms in the air conditioner system during operation, which then exits under the vehicle. Traces of condensed water of this kind are thus normal. ◀

Recirculated-air mode

You can respond to unpleasant external odors by temporarily blocking the outside air. The system then recirculates the air already within the vehicle.



If the windows fog over in the recirculated air mode, switch this mode off and increase the air supply as required. ◀



Draft-free ventilation

You can adjust the air outlets for the upper body area to select the optimum air flow rates and directions for your personal requirements:

Use rotary dials 1 to open and close the air outlets through an infinitely-variable range. You can adjust the direction of the air flow with levers 2.

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

Rotary dial 3 allows you to mix the air from the outlets for your upper body with more or less cool air..


Microfilter

An activated-charcoal microfilter, which traps incoming dust and pollen, has been installed in your vehicle. Your BMW center will replace it during regularly scheduled maintenance. A substantial reduction in air supply indicates that the filter must be replaced before normal maintenance.

For additional details on the filter change, refer to page [180](#).




Rapid ventilation

- 1 Set the blower speed rotary dial for the air flow rate to position 4.
- 2 Switch on the air conditioner.
- 3 Turn the rotary temperature control completely to the left (blue).
- 4 Rotary control for air distribution in position .
- 5 Open the air outlets for the upper body.




Rapid heating

- 1 Set the blower speed rotary control for the air flow rate to position 3.
- 2 Turn the rotary temperature control completely to the right (red).
- 3 Rotary control for air distribution in position .




Defrost the windows and remove condensation

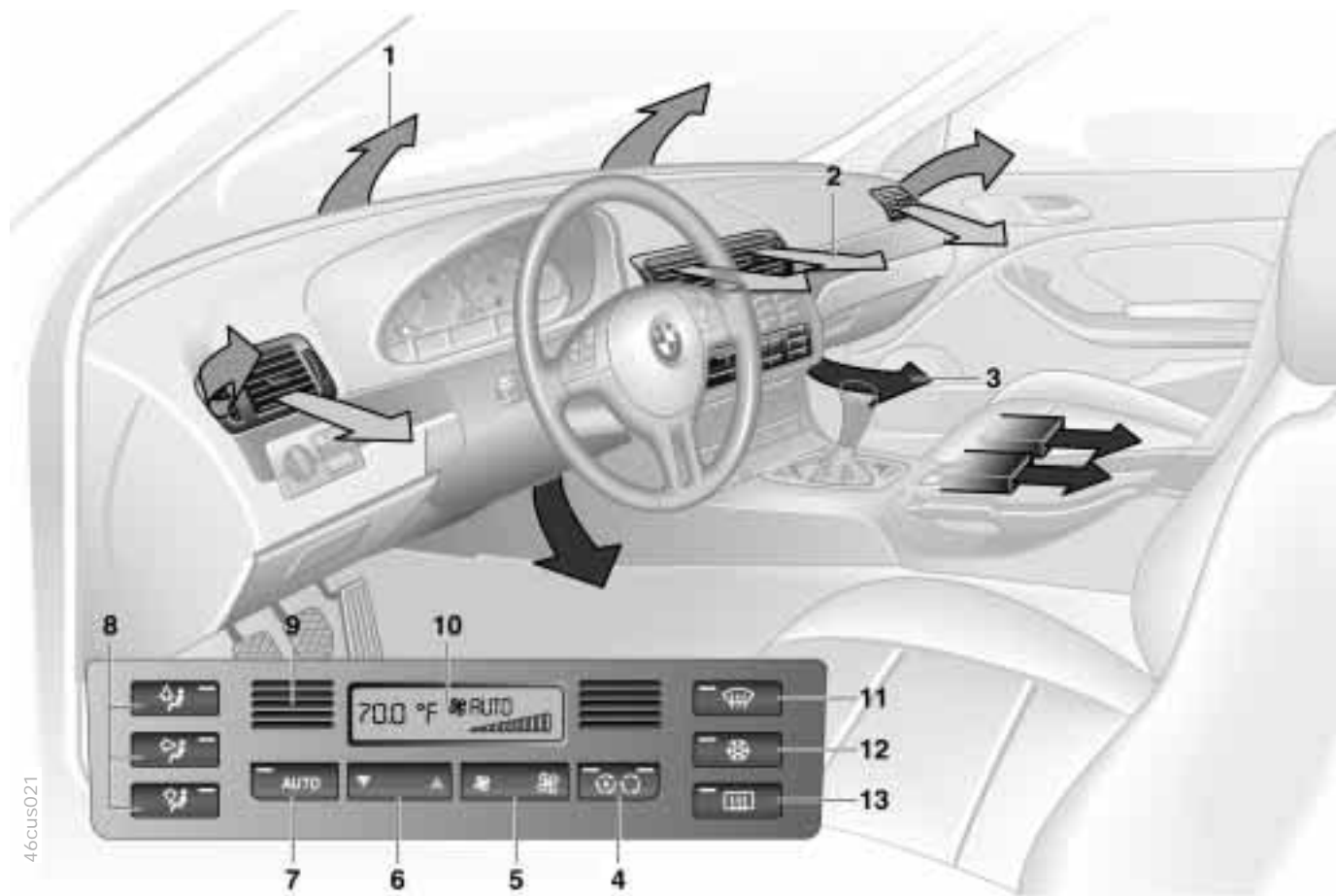
- 1 Set the blower speed rotary control for the air flow rate to position 4.
- 2 Turn the rotary temperature control completely to the right (red).
- 3 Rotary control for air distribution in position .
- 4 Switch on the rear window defroster to defrost the rear window.



Heating

When the windows are free of ice and condensation, we recommend the following settings:

- 1 Set the blower speed rotary control for the air flow rate to position 2.
- 2 Use the rotary temperature control to select an interior temperature which is comfortable for you.
- 3 Rotary control for air distribution in position .




- 1 Air onto the windshield and onto the side windows
- 2 Air for the upper body area
The side rotary dials open and close the air supply through an infinitely-variable range; the levers will change the direction of the air flow. The center rotary dial adjusts the temperature of the air as it flows out, see page [106](#)
- 3 Air for the front footwell
There are vent outlets for the footwell in the rear as well
- 4 Recirculated air mode/Automatic recirculated air control (AUC) [105](#)
- 5 Air supply [105](#)
- 6 Temperature [104](#)
- 7 Automatic air distribution [104](#)
- 8 Individual air distribution [104](#)
- 9 Air grill for interior temperature sensor – please keep clear and unobstructed
- 10 Display for temperature and air supply [104](#)
- 11 Defrost windows and remove condensation [105](#)
- 12 Air conditioner [105](#)
- 13 Rear window defroster [78](#), [106](#)

Tips for pleasant driving

Use the automatic system (switch on AUTO-button 7). Select an interior temperature that is comfortable for you – e.g. 72 °F (+22 °C). Whenever the outside temperature is above 41 °F (+5 °C), you can also use the air conditioner 12. This will dry the air as well as preventing condensation on the window surfaces – if there are passengers with damp clothing, for example. Set the air outlets 2 so that the air flows past you and is not directed straight at you. Set the rotary dial between the air outlets 2 for the upper body to a medium position, since air that is somewhat cooler promotes driving without fatigue.




Detailed setting options are described for you in the following section.

Automatic air distribution

The AUTO program assumes the adjustment of the air distribution and the air supply for you and in addition adapts the temperature to external influences (summer, winter) to meet preferences you can specify. This program maintains a comfortable in-car climate regardless of the season. Select an interior temperature that is comfortable for you – e.g. 72 °F (+22 °C). The temperature selected and  AUTO for the air supply appear in display 10, refer to the overview on page 102. Open the air outlets for the upper body area. Switch on the air conditioner in warm weather. The maximum cooling capacity is achieved when you set rotary dial 3 (refer to page 106) to cold.

Individual air distribution

You can cancel the AUTO program by selecting specific distribution patterns to suit your own individual requirements.

You can direct air to flow onto the windows , toward the upper body , and into the footwell .

Temperature

The figures in the display provide a general indication of interior temperature. We recommend 72 °F (+22 °C) as a comfortable setting, even if the air conditioner is on. When you start the vehicle, the system ensures that the selected temperature is reached as quickly as possible. It then maintains this temperature, regardless of the season.

Set rotary dial 3 (refer to "Draft-free ventilation" on page 106) to a medium setting, since air that is somewhat cooler promotes driving without fatigue. You can use this setting for mixing air to make minor comfort modifications.



You can set uncontrolled heater output up to 90 °F (+32 °C). The air conditioner is at full cooling output at 60 °F (+16 °C). ◀

Air supply



By pressing the left or right half of the button, you can vary the air supply. By doing this, you switch off the automatic control of the air supply. Nevertheless, the automatic air distribution remains unchanged.

When you set the lowest blower speed by pressing the left half of the button, all of the displays are canceled: the blower, heating and air conditioner are switched off, and the air supply is stopped. You can reactivate the system by pressing any button for the automatic climate control.

To defrost the windows and to remove condensation



This program quickly removes ice and condensation from the windshield and side windows.

Air conditioner



The air is cooled and dehumidified and – depending on the temperature setting – rewarmed when the air conditioner is switched on. Depending on the weather, the windshield may fog over briefly when the engine is started.

Use the button to switch the air conditioner off at outside temperatures below approx. 41 °F (+5 °C). This will help to prevent the windows from fogging up.

If the windows fog over after switching the air conditioner off, switch it back on.



Condensation forms in the air conditioner system during operation, that then exits under the vehicle. Traces of condensed water of this kind are thus normal. ◀

Automatic recirculated air control (AUC)



If there are unpleasant odors or pollutants in the outside air, you can temporarily block the air supply from the outside. The system then recirculates the air already within the vehicle. By repeated actuation of the button, you can select one of three different operation modes.

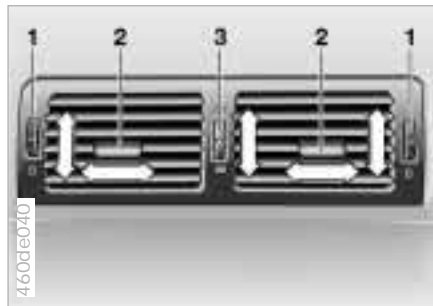
- ▷ Indicator lamps off: fresh air flows into the vehicle.
- ▷ Left-hand indicator lamp on – AUC mode: the system detects pollutants in the outside air and responds by deactivating the outside air supply as required. The system then recirculates the air already within the vehicle. Depending on the air quality, the automatic system then switches back and forth between outside air supply and recirculation of the air within the vehicle.
- ▷ Right-hand indicator lamp on: the supply of outside air is permanently blocked. The system recirculates the air already within the vehicle.



If the windows fog over in the recirculated air mode, switch this mode off and increase the air supply as required. ◀

Rear window defroster

When the rear window defroster is activated, the indicator lamp comes on. The rear window defroster switches off automatically. Refer to page [78](#).

**Draft-free ventilation**

You can adjust the blower controls for the upper body area to select the optimum air flow rates and directions for your personal requirements:

Use rotary dials 1 to open and close the air outlets through an infinitely-variable range. You can adjust the direction of the air flow with levers 2.

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

Rotary dial 3 allows you mix the air from the outlets for your upper body by warming or cooling the air as desired.

Microfilter/Activated-charcoal filter

The microfilter filters out dust and pollen from the incoming air. The activated-charcoal filter helps clean the incoming outside air of gaseous pollutants. Your BMW center will replace this combined filter during the regularly scheduled maintenance. A substantial reduction in air supply indicates that the filter must be replaced before normal maintenance.

For further information on the filter change, refer to page [180](#).



The seat cushion and backrest can be heated with ignition key in position 2. You can call up different heating modes by repeatedly pressing the button.

When the three indicator lamps are illuminated, the highest heating mode is activated. One lamp indicates the lowest heating mode. The temperature is regulated with a thermostat in each mode.

You can also switch the higher heating modes off directly: Press the button and hold it slightly longer.



To open

Pull the handle and the lamp comes on.

Closing

Fold up cover.

To lock

Use one of the master keys. A master key must also be used for unlocking.



If you turn over only your door and ignition keys for valet parking (refer to page 32), for example, access to the glove compartment and to the luggage compartment is not possible. ◀



To prevent injury in the event of a crash, close the glove compartment immediately after use. ◀

Rechargeable flashlight

The flashlight is located on the left-hand side of the glove compartment. It features integral overload protection so that it can be left in its holder continuously.




Be sure that the flashlight is switched off when it is inserted into its holder. Failure to comply with this precaution could lead to overcharging and damage. ◀

The concept

The BMW Universal Transmitter replaces up to three handheld transmitters of different devices such as garage-door openers, alarm systems, or door locking systems. The BMW Universal Transmitter recognizes and "learns" the transmitted signal of each of the original handheld transmitters.

The signal of an original handheld transmitter can be programmed on one of the three channel keys. Following that, each of the devices can be actuated with the appropriately-programmed channel key. The indicator lamp flashes to confirm transmission of the signal.

If the vehicle is sold, the memory of the channel keys should be cleared as described on page 110.

 During programming and before every remote actuation of a programmed device by the BMW Universal Transmitter, check to be sure that there are no persons, animals or objects within the actuation range of the device in order to prevent possible injuries or damage. Also, comply with the safety precautions of the original handheld transmitter. ◀



To Canadian residents:

During programming, your handheld transmitter may automatically stop transmitting after two seconds. This may not be long enough to program the BMW Universal Transmitter. If you are programming from one of these handheld transmitters, the Universal Transmitter's light may begin to flash in a series of double-blinks. If this occurs, continue to hold the button of the Universal Transmitter while you reactivate your hand-held transmitter. You may have to repeat this function several times while programming. ◀



Before programming, read the "User information" section on page 110. ◀

Original handheld transmitter



If this symbol is present on the packaging or in the instructions of the original handheld transmitter, it may be assumed that this handheld transmitter is compatible with the BMW Universal Transmitter.

Checking for the conversion code

To determine whether the original handheld transmitter is provided with a conversion-code system, you may either read the instructions for the original handheld transmitter or program a channel key as described on the next page (left-hand column under "Programming").

Then press and hold the programmed channel key of the BMW Universal Transmitter. If the indicator lamp of the BMW Universal Transmitter flashes for two seconds and then comes on steadily, the original handheld transmitter is provided with a conversion-code system. With a conversion code system, program the channel keys as described on the next page (right-hand column under "Programming a hand-held transmitter with conversion code").




If you have additional questions, please consult your BMW center or call 1-800-355-3515. You can also visit this website www.bmwusa.com. ◀

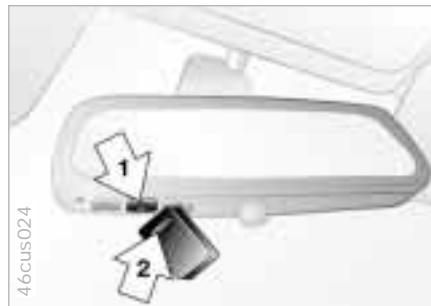


Programming

- 1 Channel keys
- 2 Indicator lamp

 Read and comply with the safety precautions on the previous page. ◀


- 1 Turn the ignition key to position 2.
- 2 For initial use: press and hold both outside keys 1 until the indicator lamp 2 flashes, and then release them. The three channel keys are cleared.




- 3 Hold the original handheld transmitter up to the receiver integrated into the mirror, i.e. near the buttons, a maximum of 2 in (5 cm) away.
- 4 Press the transmission key of the original handheld transmitter (arrow 2) and the desired channel key of the Integrated Universal Remote Control (arrow 1) simultaneously. Release both keys as soon as the indicator lamp flashes rapidly.
- 5 To program other original handheld transmitters, repeat steps 3 and 4.

The corresponding channel key is now programmed with the signal of the original handheld transmitter.


Programming a handheld transmitter with conversion code

 Read and comply with the safety precautions on the previous page. ◀

When programming the BMW Universal Transmitter, consult the instructions for the specific device. For using the BMW Universal Transmitter with a conversion-code system, note the following supplemental programming instructions:

 A second person facilitates programming of the BMW Universal Transmitter. ◀

- 1 Program the BMW Universal Transmitter as described previously under "Programming".
- 2 Press and hold the programming key on the receiver of the device for approximately two seconds until the programming lamp on the device comes on.
- 3 Press the desired channel key of the BMW Universal Transmitter three times.

 If you have additional questions, please consult your BMW center. ◀

Clearing the channel keys

Read and comply with the safety precautions on page 108. ◀

The memory of individual channel keys cannot be deleted. However, the three channel keys can be cleared together as follows:

- ▷ Press and hold both outside keys of the BMW Universal Transmitter until the indicator lamp flashes, and then release them.

All of the channel keys are cleared.

User information

Do not use this BMW Universal Transmitter with any garage door opener that lacks safety "stop" and "reverse" features as required by federal safety standards (this includes any garage door opener model manufactured before April 1, 1982).

This device complies with Section 15 of the FCC Rules. Operation is subject to the following two conditions: as defined in the regulations, this device must not emit harmful interference, and must be shielded against interference from external sources to prevent unauthorized or inadvertent activation.

Storage facilities

To open the storage compartment in the front center armrest: press the button (arrow) and lift upward.

You will find additional storage compartments in the doors and in the center console above the ashtray. Storage nets are located on the backrests of the front seats.

Storage facilities



Beverage holder, coin box

A coin box and two beverage holders are provided in the center console.

Cellular phone*



Handsfree system

In vehicles with telephone preparation* or a communications package*, the trim piece for the hands free microphone is located in the headliner near the interior lamp.

For further information on the cellular phone, refer to the separate Owner's Manual.

Ashtray, front



To open

Press briefly in the direction indicated by the arrow.

To extinguish a cigarette, tap off the ash and gently press the tip into the funnel.

112 Ashtray, front



To empty

Open the lid and press down (arrow): You can now pull the ashtray upward for removal.

Cigarette lighter



Press the lighter in. As soon as it pops back out, the lighter can be removed.



Hold or touch the hot cigarette lighter by the knob only. Holding or touching it in other areas could result in burns. The cigarette lighter remains operational when the ignition key has been removed. For this reason, children should never be left in the vehicle unattended. ◀

Cigarette lighter socket

Suitable for attaching power supplies for flashlights, car vacuum cleaners, etc., up to a rating of approx. 200 watts at 12 volts. Avoid damaging the socket due to inserting plugs of different shapes or sizes.

Ashtray, rear



To open

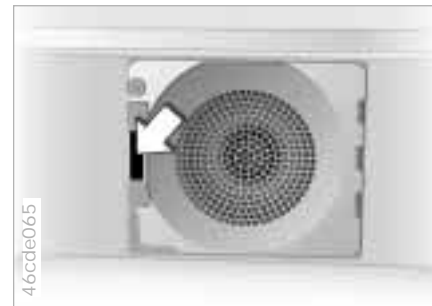
Push the cover open.

To empty

Press on the edge of the raised cover in the opening direction (arrow). You can now pull the ashtray upward for removal.

The ski bag allows the safe and clean transport of up to three pairs of skis or up to two snowboards.

The length of the ski bag and the additional space provided in the luggage compartment make it possible to carry skis up to 6.8 ft long (2.10 meters). Because of the tapered shape of the bag, the ski bag can only accommodate two pairs of skis up to 6.8 ft long (2.10 meters).




Loading

- 1 Take the safety belts out of their brackets.
- 2 Press button downward (arrow) and remove the filler piece by pulling it forward.
- 3 Extend the ski bag between the front seats. The zipper provides convenient access to stored items and it allows the ski bag to dry faster.


- 4 Press the release button in the luggage compartment (arrow).
- 5 Use the magnetic holder to fasten the cover panel to the back wall.

To store the ski bag, perform the above steps in reverse sequence.

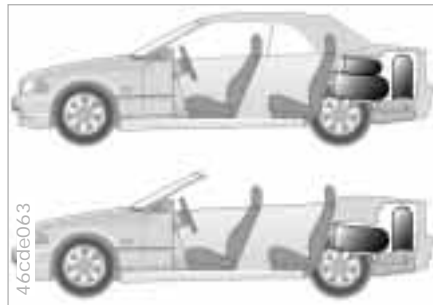
 Secure the skis or other objects in the bag by tightening the strap with the buckle. ◀

Please be sure that your skis are clean before loading them into the bag. Avoid damage from sharp edges during loading.



 When reattaching the filler piece, guide both bars into the guide and press the filler piece back into place. Secure the safety belts in their holders again. ◀


Cargo loading



Stowing cargo

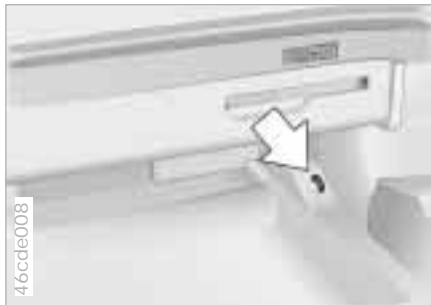
If you are transporting a load in your BMW:

- ▷ Load heavy cargo as far forward as possible – directly behind the backrests or the luggage compartment partition – and as low as possible.
- ▷ Cover sharp edges and corners.

 With the convertible top closed, you can increase the space in your luggage compartment. Refer to page 41.

We recommend that you always fold the convertible top compartment panel down as soon as you have removed your cargo from the luggage compartment. This way, you can be sure that you can always operate the convertible top at any time.

Conversely, when the convertible top is closed, raise the convertible top compartment panel before stowing your cargo in the luggage compartment to avoid any damage to the convertible top compartment or your load. ◀



Securing the load

- ▷ For small, light items, use the rubber-lined non-skid side of the floor mat or secure with a luggage net* or flexible straps (refer to page 41).
- ▷ For large, heavy pieces, see your BMW center for load-securing devices*. Lashing eyes (arrow) are provided at the inner corners of the luggage compartment for attaching these load-securing devices.
- ▷ Comply with the information enclosed with the load-securing devices.



Always position and secure the load correctly. If you do not, it can endanger the passengers during braking or evasive maneuvers.

Do not exceed the approved gross weight and axle load (refer to page 198), otherwise the vehicle's operating safety is no longer assured and you are in violation of the law.

Do not stow heavy or hard objects in the passenger compartment without first securing them. Otherwise they would be thrown around during braking and evasive maneuvers and endanger the occupants. ◀

116 Roof-mounted luggage rack for the hardtop*



Anchors

Access to the anchors:

To open the cover (arrow), please use the tool included with the roof-rack system.

A special roof-rack system is available for your BMW as an optional extra. Please comply with the precautions included with the installation instructions.

Because roof racks raise the center of gravity of the vehicle when loaded, they exercise a major effect on its handling and steering response. You should therefore always remember not to exceed the approved roof weight, the approved gross vehicle weight or the

axle loads when loading the rack. Pertinent specifications are listed under "Technical Data," page [198](#).

Make sure that the load is not too heavy, and distribute it evenly. Always load the heaviest pieces first (on the bottom). Be sure that objects do not project into the opening path of the luggage compartment lid.

Secure the roof luggage correctly and securely to prevent it from shifting or being lost during driving (danger to following traffic).

Drive smoothly and avoid sudden acceleration or braking. Do not corner at high speeds.

The roof load increases aerodynamic resistance, which in turn increases fuel consumption and places additional stress on the vehicle itself.



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To ensure that your vehicle provides maximum economy throughout a long service life, we request that you comply with the following recommendations:

Engine and differential

Up to 1,200 miles (2,000 km):

Drive at varying engine and road speeds, but do not exceed 4,500 rpm or a speed of 100 mph (160 km/h):

Obey your local and state maximum speed limits.

Always avoid using the full throttle or "kickdown" position for the accelerator.

Once you have driven 1,200 miles (2,000 km), engine speed and vehicle speed can be gradually increased.

Follow the same break-in procedure if either the engine or the differential is replaced in the future.

Tires

Due to technical factors associated with their manufacture, tires do not achieve their full traction potential until an initial break-in period has elapsed. For this reason drive cautiously during the initial 200 miles (300 km).

Obey your local and state maximum speed limits.



When the vehicle is operated on wet or slushy roads, a wedge of water may form between the tire and the road surface. This phenomenon is referred to as aquaplaning, or hydroplaning, and can lead to partial or complete loss of traction, vehicle control and braking effectiveness. Reduce your speed on wet roads. ◀

Brake system

Approximately 300 miles (500 km) must elapse before the brake pads and discs achieve the optimal pad-surface and wear patterns required for trouble-free operation and long service life later on.

To break-in the separate parking brake drums, apply the parking brake lightly when coasting to a standstill (at a traffic signal, for instance), provided that traffic conditions allow you to do so.

To avoid corrosion, repeat this procedure from time to time.



The brake lamps do not come on when the parking brake is set. Vacuum for the brake system servo unit on your BMW is available only when the engine is running. When you move the vehicle with the engine off – when towing, for example – substantially higher levels of pedal force will be required to brake the vehicle. ◀

Clutch

The clutch will also begin to function optimally after about 300 miles (500 km). Engage the gears carefully during the break-in period.

Driving notes



Brakes:

Do not drive with your foot resting on the brake pedal. Even light but consistent pedal pressure can lead to high temperatures, brake wear, and possibly to brake failure.

Aquaplaning:

When driving on wet or slushy roads, reduce vehicle speed. If you do not, a wedge of water may form between the tires and the road surface. This phenomenon is referred to as aquaplaning or hydroplaning. It is characterized by a partial or complete loss of contact between the tires and the road surface. The ultimate results are loss of steering and braking control.

Driving through water:

Do not drive through water on the road if it is deeper than 1 ft (30 cm), and then only at walking speed. Otherwise, the vehicle's engine, the electrical systems and the transmission may be damaged.

Clothes hooks (for the hardtop):

When suspending clothing from the hooks, be sure that they will not obstruct the driver's vision. Do not hang heavy objects on the hooks. If you do so, they could cause personal injury during braking or evasive maneuvers. ◀

Catalytic converter

The catalytic converter reduces harmful exhaust emissions.

It is designed for use with unleaded fuel only. Even minute quantities of lead would be enough to permanently damage both the catalytic converter and the system oxygen sensor.

To ensure efficient, trouble-free engine operation and to avoid potential damage:

- ▷ Be sure to comply with the scheduled maintenance requirements.
- ▷ Fill the fuel tank well before it is empty.
- ▷ Tow-start only when the engine is cold. If you attempt to tow-start with a warm engine, unburned residual fuel in the catalytic converter could ignite and cause damage. It is better to jump-start the vehicle with outside assistance.
- ▷ Avoid other situations in which the fuel is not burned, or burns incompletely, such as engaging the starter frequently or for extended periods, or repeated start attempts in which the engine does not start (stopping and restarting an engine which is running properly does not present a problem). Never allow the engine to run with any of the spark plug cables disconnected.



Be sure to comply with the preceding instructions to prevent unburned fuel from reaching the catalytic converter. If you do not, the catalytic converter could respond by overheating, leading to serious damage.

Very high temperatures occur in any vehicle equipped with a catalytic converter. Heat shields are installed adjacent to some sections of the exhaust system. Never remove these shields; do not apply undercoating to their surfaces. When driving, standing at idle, and parking the vehicle, take extra care to avoid contact between the exhaust system and flammable materials (grass, hay, leaves, etc.). Such contact could lead to a fire, resulting in serious personal injury and property damage. ◀

The concept

ABS enhances active safety by helping to prevent the wheels from locking under braking. This is because locked wheels are dangerous. When the front wheels slide, the driver loses steering control over the vehicle. Traction loss at the rear wheels can cause the rear end to break into an uncontrolled skid.

The system can achieve the shortest braking distances possible under most conditions (on straight-aways and in curves, on asphalt, ice, wet road surfaces, etc.).

ABS is designed to meet two essential requirements during every brake application:

- ▷ To help provide vehicle stability.
- ▷ To help maintain steering control and maneuverability – on all types of road surfaces (asphalt, concrete, mud, wet road surfaces, snow, ice).

Braking with ABS

At about 6 mph (10 km/h), the system becomes operative. Whenever the vehicle's speed drops below approx. 4 mph (6 km/h), the ABS is deactivated. This means that the wheels can lock in the final phase of a panic stop – a factor of no significance in actual use.

If you are in a situation that requires full braking, you will exploit the full benefits of the ABS system if you apply maximum brake pressure ("panic stop"). Since the vehicle maintains steering responsiveness, you can nevertheless avoid possible obstacles with a minimum of steering effort.

The ABS system closed-loop control circuit cycles in fractions of a second. A pulsation at the brake pedal, together with the sounds associated with the hydraulic controls, tells you that the brake system is within its maximum limit range and reminds you that you should adapt road speed to the road conditions.

On road surfaces that have a loose surface layer on a firm base with good traction (on gravel or snow, for example), or when snow chains are mounted, braking distances may be longer than with locked wheels.

Nevertheless, ABS possesses the advantage of vehicle stability and steering response.

Information for your safety

Not even ABS can suspend the laws of physics. ABS cannot prevent the consequences of brake applications with inadequate clearances for safety between vehicles, when exceeding the speed limit, or the risks involved when aquaplaning occurs. Responsibility for these types of situations remains in the hands (and at the feet) of the driver. You should never allow the added safety of ABS to lull you into a false sense of security, or mislead you into taking increased risks.



Do not make any modifications to the ABS system.

Service procedures on ABS are to be performed by authorized technicians only. ◀

Antilock Brake System (ABS)/ Cornering Brake Control (CBC)

CBC is an advanced engineering design of the ABS. When braking while cornering at high speed or braking during high lateral acceleration, or when braking during a lane change, vehicle stability is improved and steering response is enhanced.

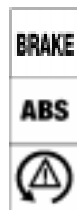
In the event of a malfunction



The ABS warning lamp in the instrument cluster lights up, refer to page 22. The brake system then reverts to conventional operation as on vehicles without ABS. However, have the brake system checked by your BMW center as soon as possible. To prevent undetected defects and cumulative faults from adversely affecting the brake system, refer any problems to your BMW center at the earliest opportunity.



ABS warning lamp for Canadian models.



The brake-warning lamp comes on along with the indicator lamps for ABS and ASC+T/DSC, refer to page 21, then the entire control system for ABS, CBC and ASC+T/DSC and ADB/DBC has failed. Continue driving cautiously and defensively.

Avoid full brake applications. This could cause the vehicle to lose stability and you might no longer be able to control it.

Have the system checked by your BMW center as soon as possible.



CBC, ABS and ASC+T/DSC and ADB/DBC indicator and warning lamps for Canadian models.

Dynamic Brake Control (DBC)*

DBC is included in the DSC, refer to information beginning on page [89](#).

If you step on the brake rapidly, this system automatically produces maximum braking force boost and thus helps to achieve the shortest possible braking distance during "panic stops." All of the benefits of the ABS system are exploited under these circumstances.

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



In the event of a malfunction, the brake warning lamp lights up yellow. Normal braking efficiency and ABS are still fully available. Have the system checked and repaired at your BMW center as soon as possible.



Please observe the section "Information for your safety" concerning the ABS system, which also applies to the DSC system. ◀

Disc brakes

Disc brakes furnish optimum deceleration and braking control and greater fade resistance under heavy use.

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 of the discs and accumulation of contamination on the brake pads. This occurs because the minimal pressure that must be exerted by the pads to clean the discs by brake applications is not reached.

If the brake discs are corroded, they will tend to respond to braking with a pulsating effect that even extended brake applications will fail to cure.



For your own safety: use only brake pads that BMW has approved for your particular vehicle model. BMW cannot evaluate non-approved brake pads to determine if they are suited for use, and therefore cannot ensure the operating safety of the vehicle if they are installed. ◀

Driving notes

When driving in wet conditions and in heavy rain, it is effective to apply light pressure to the brakes every few miles or kilometers. Be aware of traffic conditions to ensure that this maneuver does not endanger other road users. The heat which is generated by the brake applications helps to dry the brake pads and discs.

Maximum braking force is obtained while the wheels are not locked, but rather when they are still barely turning immediately prior to locking. ABS maintains this state automatically. If the antilock brake system ever fails, you should revert to pumping the brakes (refer to page 128).

Extended or steep mountain descents should be driven in the gear in which only minimal periodic brake application is required. This avoids excessive strain on the brakes and possible impairment of the braking effect.

You can further increase the engine's braking effect by selecting a lower gear, downshifting as far as first gear. When driving a vehicle with automatic transmission, you can still downshift into first gear. Refer to page 74.

If engine braking should prove to be inadequate, you should still avoid extended, continuous braking. Instead of maintaining low to moderate pressure over an extended period of time, you should decelerate by applying more substantial pressure to the brake pedal (watch for following traffic), releasing the pedal, and then repeating the application (staggered braking). The cooling phases between active braking intervals prevent the brakes from overheating, thus ensuring that full braking capacity remains available at all times.



Do not coast with the clutch depressed or with the shift lever or selector lever in Neutral. Do not drive with the engine shut off. The engine provides no braking effect when the clutch is depressed or the transmission is in Neutral, and there is no power-assist for braking or steering when the engine is not running. Never allow floor mats, carpets or any other objects to protrude into the area around the brake, clutch or accelerator pedals, which can obstruct pedal travel. ◀

Brake fluid level

The brake warning lamp comes on with the parking brake released:

The brake fluid level is too low in the reservoir (refer to page 148).

If the brake fluid level is too low and brake pedal travel has become noticeably longer, there may be a defect in one of the hydraulic circuits of the brake system.



Brake warning lamp for Canadian models.



Proceed to the nearest BMW center. Higher brake application pressure may be necessary under these conditions, and brake pedal travel may be significantly longer. Please remember to adapt your driving style accordingly. ◀

Brake pads

The brake pads warning lamp lights up:

Only the minimum pad thickness still remains on the brake pads. Proceed to the nearest BMW center as soon as possible to have the pads replaced.



For your own safety: use only brake pads that BMW has approved for your particular vehicle model. BMW cannot evaluate non-approved brake pads to determine if they are suited for use, and therefore cannot ensure the operating safety of the vehicle if they are installed. ◀

Winter operation

The onset of winter is often accompanied by rapid changes in weather. Adaptations in driving style should be accompanied by preparations on the vehicle itself to ensure that your progress through the winter remains safe and trouble-free.

Coolant

Be sure that the coolant mixture contains the year-round ratio of 50:50 water and extended-duty antifreeze/corrosion protection. This mixture provides protection against freezing down to approx. -34 °F (-37 °C). Replace the coolant every four years.

Locks

BMW door lock deicer can be used to free them if frozen. This deicer also contains lubricant.

After using the deicer, we recommend you treat the door lock with BMW lock cylinder lubricant.

Rubber seals and components

To prevent the weather-stripping from freezing, apply a spray-on rubber treatment or silicone spray to the door, hood and luggage compartment lid seals.



A full range of car care products is available from your BMW center. ◀

Snow chains*

BMW snow chains can be mounted on both summer and winter tires. Mount them in pairs on the rear wheels only and comply with the manufacturer's safety precautions. Do not exceed a maximum speed of 30 mph (50 km/h). In this rare situation, it may be effective to deactivate the ASC+T/DSC for a brief period of time. Refer to page 88.

Starting off

When starting up from a full stop in deep snow or when "rocking" the vehicle to free it, it may be effective to deactivate the ASC+T/DSC system for a brief period of time. Refer to page 88.

Driving on low-traction road surfaces

Use smooth, gentle pressure to control the accelerator pedal. Avoid excessive engine speeds and shift to the next higher gear at an early point. On downhill grades or slopes, shift down to the next lower gear at an early point. Maintain an adequate distance between yourself and the vehicle ahead.

Brakes

Winter road conditions substantially reduce the amount of traction available between the tires and the road surface; the resulting increase in braking distance is considerable and should always be kept in mind.

ABS is intended to prevent the wheels from locking during brake applications, thus helping to maintain vehicle stability and steering response.

If the ABS does not respond in a critical braking situation and the wheels lock: reduce the pressure on the brake pedal until the wheels just start to roll again while still maintaining enough force to continue braking.

Then increase the pressure, reduce the pressure when the wheels lock, reapply pressure etc.

This staggered braking procedure will reduce stopping distances while helping you maintain steering control. You can then attempt to steer around hazards after you have reduced pressure on the brake pedal.



Do not shift down on slick road surfaces. Doing so could cause the rear wheels to lose traction and skid, that could result in the loss of vehicle control. ◀



Depress the clutch during hard braking on road surfaces that provide only poor or uneven traction. ◀

Skid control

Depress the clutch and let up on the accelerator pedal, or place the selector lever for the automatic transmission in the "Neutral" position. Countersteer carefully and attempt to regain control of the vehicle.

Parking

Engage 1st or reverse gear. If your vehicle is equipped with an automatic transmission, place the selector lever in "Park." On vehicles with manual transmission, also apply the parking brake when parking on inclined surfaces. In order to prevent the parking brake pads from locking due to frost or corrosion, dry them by gently applying the parking brake as the vehicle is coming to a stop. Make sure that following traffic is not endangered.



The brake lamps do not come on when the parking brake is applied. ◀

Power steering

If the steering response changes, e.g. high steering effort:
Have your BMW center inspect the system.



If the power steering fails, increased effort will be required to steer the vehicle. ◀

Cellular phone*

Mobile communications systems (cellular phone, radio, etc.) are permitted with an output up to 10 watts only. Mobile communications devices not specifically designed for use in your vehicle may trigger malfunctions while operating your vehicle. BMW can neither test nor assume responsibility for every individual product being offered on the market. We recommend that you consult your BMW center before purchasing any device of this kind.

To ensure that your BMW continues to provide reliable and trouble-free operation, do not use a cellular phone or other radio device with an antenna located inside the passenger compartment. The antenna should always be mounted on the outside of the vehicle.



Before loading the vehicle on a car-carrier train or driving it through a car wash, remove the antenna. ◀

Radio reception

The reception and sound quality obtained from mobile radios varies according to a variety of factors, including the broadcast range of the transmitter and the directional orientation of the antenna. Interference factors such as high-tension power lines, buildings and natural obstructions can all lead to unavoidable reception interference, regardless of how well the vehicle's sound system is operating. Climatic factors such as intense solar radiation, fog, rain and snow can also interfere with reception.

Car telephones or cellular phones not approved by BMW can also cause interference in the radio during a telephone call. This phenomenon assumes the form of a low-pitched hum emanating from the speaker system.

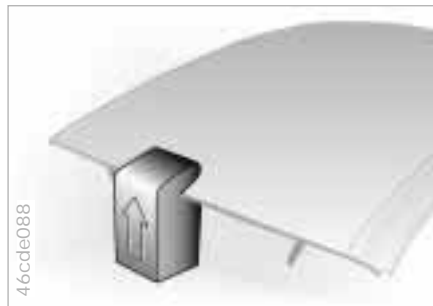
Please refer to the Owner's Manual provided with your sound system for detailed information on its use.

It is not necessary to remove the fabric top even in the winter, when the hardtop is generally in constant use. But you can remove it at any time without difficulty. Before the fabric top is stored in the convertible top well, it must be absolutely dry in order to avoid water spots and mildew from forming. The hardtop offers reading lamps and clothing hooks that can be used by pressing lightly. In addition, a roof-rack assembly is possible. In this regard, please contact your BMW center.



When hanging clothing from the hooks, be sure that they do not obstruct the driver's vision. Do not hang heavy objects on the hooks. If you do so, they could cause personal injury during braking or evasive maneuvers. ◀

Two persons are required for installation or removal. Work with extreme caution in order to avoid paint damage and damage to the body or hardtop. To facilitate hardtop installation or removal, you can obtain a specially designed hardtop lift* or hardtop cart* at your BMW center.



Storing

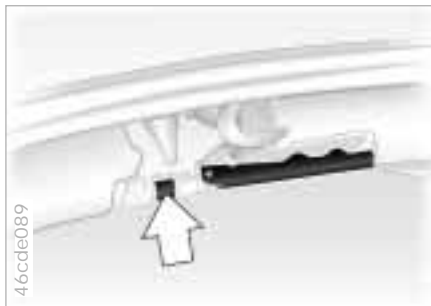


Storing the hardtop on the floor: push the styrofoam block provided with the hardtop forward to its center. The arrow on the styrofoam block must be pointing upward. ◀



Installation

- 1 Lower the side windows completely and flip the sun visors down. If necessary, remove the rod antenna to avoid any damage.
- 2 For vehicles with manual convertible top operation, first release the convertible top compartment lid, and, if necessary, open it somewhat. For vehicles with fully automatic convertible top operation*, open the convertible top compartment lid slightly by pressing the button for operating the convertible top.
- 3 Remove the trim pieces on both sides by pulling them off toward the back (arrow) and reclose the convertible top compartment lid.



4 Open both of the front locking levers. Press the button to do this. The levers will release slightly. Raise the levers as far as possible.



- 5 Before installing, first flip down the cover panels that are located underneath the left and right interior lamps. To do this, press on the slightly raised spot on the cover panel. There is a holder in the cover panel to securely store the visors that have been removed (1).
- 6 Open the red release lever as far as possible (2).
- 7 Position the hardtop on the supports with the help of a second person. Be sure to put the mountings exactly into the proper brackets.
- 8 In the back, close the red locking lever by turning to the inside as far as possible behind the trim. Flip the cover panels back into place.

9 To lock the hardtop in the front, continue pressing on the front locking lever until you hear it engage.

⚠ Lift the hardtop carefully. Be extremely careful not to shift the seals. Seals that have been shifted out of place or pulled out cause leaks. ◀

Removing


Remove the hardtop in the opposite order of installation.

Information for your safety

The factory-approved radial tires are matched to the vehicle and have been selected to provide optimum safety and driving comfort on your vehicle.

It is not merely the tire's service life, but also driving comfort and – above all else – driving safety that depend on the condition of the tires and the maintenance of the specified tire pressure.


Incorrect inflation pressure is a frequent cause of tire damage. It also significantly influences the roadholding ability of your BMW.

 Be sure to check the tire inflation pressure – including the space-saver spare tire – on a regular basis, i.e. at least twice a month and before beginning a longer trip. Refer to page 28. If this is not done, incorrect tire pressures can cause driving instability and tire damage, ultimately resulting in an accident. ◀

Tire condition**Tire tread – tire damage**

Inspect your tires frequently for tread wear, signs of damage and for foreign objects lodged in the tread. Check the tread depth.

Tread depth should not be allowed to go below 0.12 in (3 mm), even though the legally specified minimum tread depth is only 0.063 in (1.6 mm). At a tread depth of 0.063 in (1.6 mm), tread depth indicators (arrow) in the tread-groove base indicate that the legally-permissible wear limit has been reached. Below 0.12 in (3 mm) tread depth, there is an increased risk of aquaplaning, even at relatively moderate speeds and with only small amounts of water on the road.

 Do not drive on a deflated (flat) tire. A flat tire greatly impairs steering and braking response, and can lead to complete loss of control over the vehicle.

Avoid overloading the vehicle so that the permitted load on the tires is not exceeded. Overloading can lead to overheating and increases the rate at which damage develops inside the tires. You could have a blowout as a result.

Unusual vibrations encountered during normal vehicle operation can indicate tire failure or some other vehicle defect. This is also true for irregularities in the vehicle's handling characteristics, such as a pronounced tendency to pull to the left or right. Should this occur, respond by immediately reducing your speed. Proceed carefully to the nearest BMW center or professional tire center, or have the vehicle towed in to have it and its tires inspected.

Tire damage (up to and including blow-outs) can endanger the lives of both the vehicle occupants and other road users. ◀

Tire replacement


To maintain good handling and vehicle response, use only tires of a single tread configuration from a single manufacturer. BMW tests and approves wheel/tire combinations, beginning on page [137](#).

DOT Quality Grades

Treadwear

Traction AA A B C

Temperature A B C

 All passenger vehicle 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 (1½) 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 vehicle 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. ◀

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

 Do not use retreaded tires. Driving safety may be impaired by their use. This is due to the possible variations in casing structures and, in some cases, to their extreme age, factors that can lead to a decrease in their durability. ◀

Tire age

The date on which the tire was manufactured is indicated by the code on the sidewall:

DOT ... 4100 means that the tire was manufactured in week 41 of 2000.

BMW recommends the replacement of all tires when the tires are no more than 6 years old, even if a tire life of 10 years is possible.

Spare tires over 6 years old should be used only in case of emergency. A tire in this condition should be replaced by a new tire immediately, and should not be mounted together with new tires.

Tire rotation**Between the axles**

The tread wear patterns at the front end differ from those at the rear – the actual patterns will vary according to individual driving conditions. In the interests of safety and maintaining optimal handling characteristics, tire rotation is not recommended.

If a proposed interaxle rotation of tires is based on economic considerations, one should consider whether the costs for the rotation are likely to be recaptured by any increase in the service life of the tires that might be realized. In principle, tire rotation must be performed at short intervals (maximum 3,000 miles/5,000 km). Consult your BMW center for more information.

Should you decide to rotate the tires, it is essential to comply with the following:

Rotate tires on the same side only, since braking characteristics and road grip could otherwise be adversely affected.

Following rotation, the tire inflation pressure should always be corrected.




If different tire sizes are mounted on the front and rear axles (refer to page 137), the wheels may not be rotated from one axle to the other. ◀

Wheel and tire combinations

The right choice

Use only BMW-approved tires, beginning on page 137.

Due to the high speeds this vehicle can reach, the use of specific brands, specifications and sizes is mandatory. Consult any BMW center for details. Comply with local/national regulations.

 The correct wheel/tire combination has an effect on the different systems such as ABS, ATC, ASC+T/DSC and ADB/DBC whose functioning would be otherwise impaired if the incorrect wheel/tire combinations were used.

For this reason, use only tires of the same manufacture and tread configuration. In the event of a flat tire, for example, remount the approved wheel/tire combination as soon as possible. ◀

Codes on the tires and wheels

The tire codes will aid you in selecting the correct tire.

The codes on radial tires:

Example: 225/50 R 16 92 W

Nominal width in mm	_____	_____	_____	_____	_____
Aspect ratio in %	_____	_____	_____	_____	_____
Radial tire ID code	_____	_____	_____	_____	_____
Rim diameter in inches	_____	_____	_____	_____	_____
Load rating (not on ZR tires)	_____	_____	_____	_____	_____
Speed rating (before R on ZR tires)	_____	_____	_____	_____	_____

The speed rating indicates the approved maximum speed for the tire.

Summer tires:

S = up to 112 mph (180 km/h)
 T = up to 118 mph (190 km/h)
 H = up to 130 mph (210 km/h)
 V = up to 150 mph (240 km/h)
 W = up to 167 mph (270 km/h)
 Y = up to 187 mph (300 km/h)
 ZR = over 150 mph (240 km/h)

Winter tires and all-season tires:

Q M+S = up to 100 mph (160 km/h)
 T M+S = up to 118 mph (190 km/h)
 H M+S = up to 130 mph (210 km/h)

Codes stamped on light-alloy wheels:

Example: 7 J x 16 H 2

Rim width in inches	_____	_____	_____	_____	_____
Code letter for flange type	_____	_____	_____	_____	_____
Symbol for full-drop center rim	_____	_____	_____	_____	_____
Rim diameter in inches	_____	_____	_____	_____	_____
Hump on the 2 rim shoulders	_____	_____	_____	_____	_____

Protect tire valve from dirt by using screw-on valve stem caps. Dirt in the valves frequently leads to slow leaks.

Choosing the right tire

BMW recommends winter tires (M+S radial tires) for driving in adverse winter road conditions. So-called all-season tires with the M+S identification mark do indeed possess better winter traction than summer tires that have the H, V, W, Y and ZR speed ratings, but they generally fail to provide the same levels of performance as winter tires.

In the interest of safe tracking and steering response, install winter tires made by the same manufacturer having the same tread configuration on all four wheels.

Mount only winter tires which have been approved by BMW. Any BMW center will be glad to provide you with information on the best winter tires for every particular driving condition.

Do not exceed specified maximum speeds

Never exceed the maximum speed for which the tires are rated. Unprofessional attempts by laymen to service tires can lead to damage and accidents.

Have this work performed by skilled professionals only. Any BMW center has the required technical knowledge and the proper equipment and will be happy to assist you. ◀

Tire condition, tire pressure

Winter tires display a perceptible loss in their ability to cope with winter driving conditions once the tread wears to below 0.16 in (4 mm), and therefore in the interest of safety, should be replaced.

Comply with the specified tire inflation pressures – and be sure to have the wheel and tire assemblies balanced every time you change the tires.

Storage

Always store tires in a cool, dry place. Store them away from light whenever possible. Protect the tires against contact with oil, grease and fuel.

Snow chains*

Use narrow-link BMW snow chains on winter tires only in pairs and only on the rear wheels. Comply with all manufacturer's safety precautions when mounting the chains.

Approved wheel and tire specifications

Tire specifications	Steel wheel	Light-alloy wheel
BMW 325Ci		
All season tires		
205/55 R 16 91 H M+S	7Jx16	7Jx16
205/50 R 17 93 V M+S extra load	7Jx17	7Jx17
Summer tires		
205/55 R 16 91 V	–	7Jx16
225/50 R 16 92 W		
225/50 ZR 16		
205/50 R 17 93 W extra load	–	7Jx17
225/45 R 17 91 W	–	8Jx17
Front: 225/45 ZR 17	–	7.5Jx17
Rear: 245/40 ZR 17	–	8.5Jx17
Winter tires		
205/55 R 16 91 Q M + S	7Jx16	7Jx16
225/50 R 16 92 Q M + S		
205/50 R 17 93 Q M+S extra load	7Jx17	7Jx17
225/45 R 17 91 Q M + S	–	8Jx17
Space-saver spare tire		
T 115/90 R 16 92 M	3.0Bx16	–
T 125/90 R 16 98 M	3.5Bx16	–
T 125/80 R 17 99 M	3.5Bx17	–

Observe the specifications for tires and wheels in the vehicle documents. If sizes not approved by the manufacturer are mounted, an entry in the vehicle documents may be necessary.

Light-alloy wheels are the only wheels permissible for summer tires.

Snow chains*

You cannot mount snow chains with the following tires:

225/50 R 16 92 W
 225/50 R 16 92 Q M+S
 225/50 ZR 16
 225/45 R 17 91 W
 225/45 R 17 91 Q M+S
 225/40 ZR 17

Mixed tires

For details concerning tire makes for mixed tires, refer to the vehicle documents.

138 **Approved wheel and tire specifications**

Tire specifications	Steel wheel	Light-alloy wheel
BMW 330Ci		
All season tires		
205/50 R 17 93 V M+S extra load	7Jx1717	7Jx17
Summer tires		
205/50 R 17 93 W extra load	–	7Jx17
225/45 R 17 91 W	–	8Jx17
Front: 225/45 ZR 17	–	7.5Jx17
Rear: 245/40 ZR 17	–	8.5Jx17
Winter tires		
205/50 R 17 93 Q/V M+S extra load	7Jx17	7Jx17
225/45 R 17 91 Q M + S	–	8Jx17
Space-saver spare tire		
T 125/80 R 17 99 M	3.5Bx17	–

Observe the specifications for tires and wheels in the vehicle's documents. If you install tire sizes not approved by the manufacturer, an entry in the vehicle documents may be necessary.

Light-alloy wheels are the only wheels permissible for summer tires.

Snow chains

You cannot mount snow chains with the following tires:

225/45 R 17 91 W
225/45 R 17 91 Q M+S
245/40 ZR 17

Mixed tires

For details concerning tire makes for mixed tires, refer to the vehicle documents.



Do not work on your vehicle without appropriate skills. Always switch off the engine and allow it to cool down before working in the engine compartment. Always disconnect the battery before working on any electrical systems or equipment. Comply with all applicable instructions and warnings. Failure to work in an informed, professional manner when servicing components and materials constitutes a safety hazard for vehicle occupants and other road users. If you are not familiar with the guidelines, please have the operations performed by your BMW center. ◀

**To unlock**

Pull the lever located under the left-hand side of the instrument panel.

**To open**

Pull the release handle and open the hood.



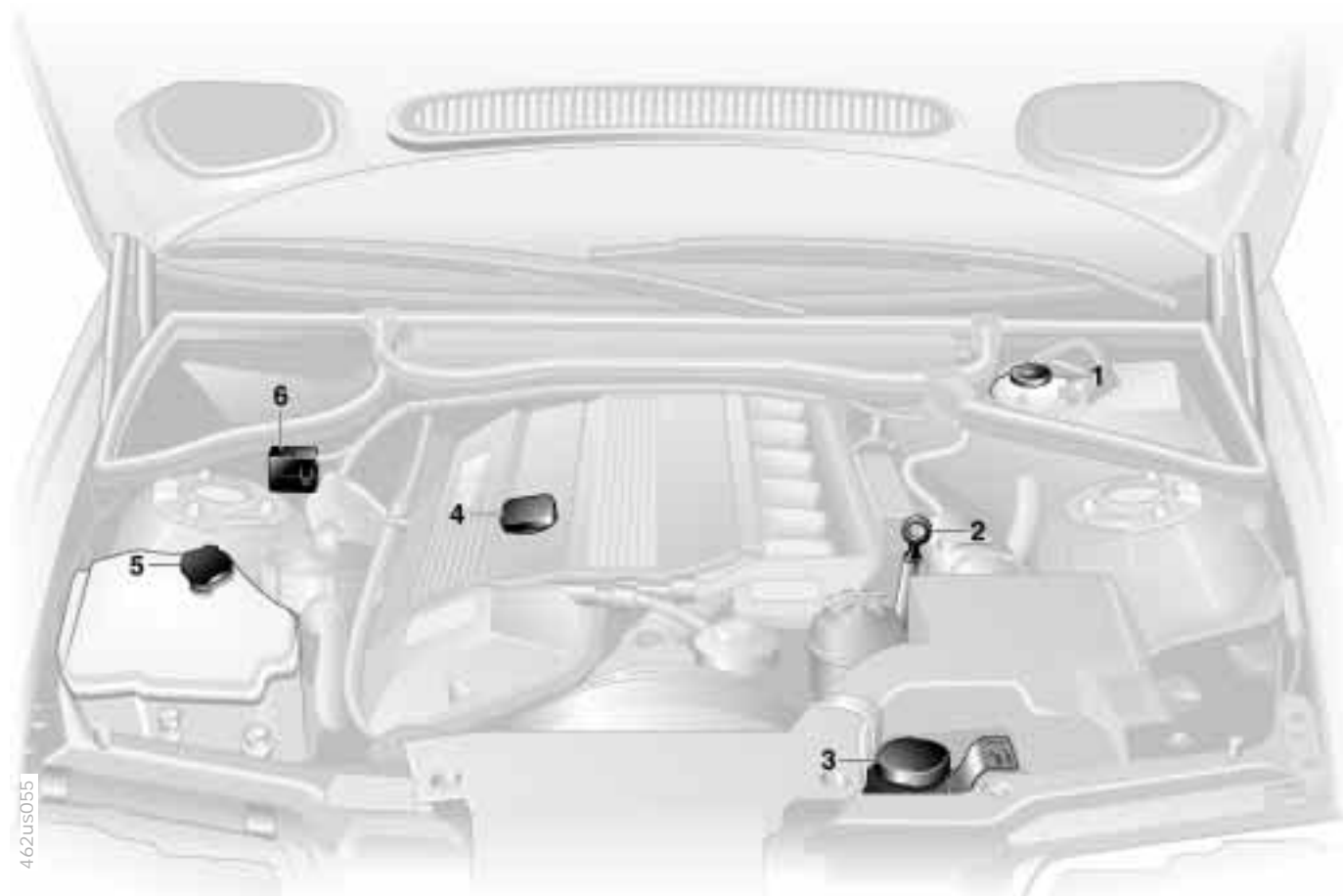
To close

Allow the hood to fall from a height of about 12 in (30 cm) so that it audibly engages.



To avoid injuries, be sure that the travel path of the hood is clear when it is closed, as with all closing procedures. If it is determined that the hood is not completely closed while driving, stop immediately and close it securely. ◀

142 Engine compartment – BMW 325Ci, 330Ci



Engine compartment – BMW 325Ci, 330Ci

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- 1 Brake fluid reservoir [148](#)
- 2 Dipstick for the engine oil [145](#)
- 3 Coolant expansion tank [147](#)
- 4 Engine oil filler neck [145](#)
- 5 Reservoir for headlamp* and windshield washer system [144](#)
- 6 Auxiliary terminal for jump starting [183](#)

Overview

Controls

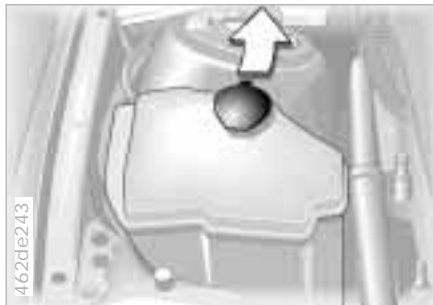
Car care

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**Headlamp* and windshield washer system**

Capacity: approx. 5.6 US quarts (5.3 liters).

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



We recommend that you mix the washer fluid before adding it to the reservoir. ◀



Antifreeze for the washer systems is flammable. For this reason, keep it away from sources of flame and store it in its original container. Store it so that it is inaccessible to children. Comply with the instructions on the containers. ◀

Washer nozzles**Windshield washer**

The spray from the nozzles should be directed so as to ensure effective cleaning, even at high speeds. Use a needle to adjust the nozzles as required, or have them adjusted by your BMW center.

Headlamp washer system*

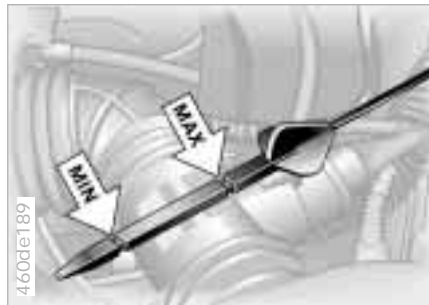
Have this system adjusted by your BMW center as required.



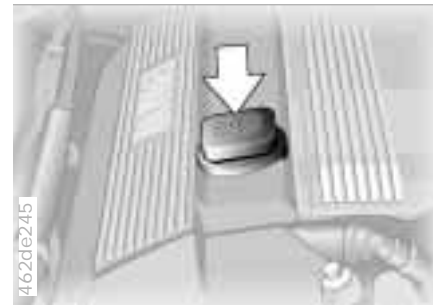
Checking the oil level

- 1 Park the vehicle on a level surface.
- 2 Shut the engine off after it has reached normal operating temperature.
- 3 After approx. 5 minutes, pull the dipstick out and wipe it off with a clean lint-free cloth, paper towel, or similar material.
- 4 Carefully push the dipstick all the way into the guide tube and pull it out again.
- 5 The oil level should be between the two marks on the dipstick.

As with fuel economy, oil consumption is directly influenced by your driving style and vehicle operating conditions.




The oil volume between the two marks on the dipstick corresponds to approx. 1.1 US quarts (1 liter). Do not fill beyond the upper mark on the dipstick. Excess oil will damage the engine.



To add oil

Wait until the level has dropped to just above the lower mark before adding oil. However, never let the oil drop below the lower mark.


 BMW engines are designed to operate without oil additives; the use of additives could lead to damage in some cases. This is also true for the manual transmission, the automatic transmission, the differential and the power steering. ◀

Specified engine oils

The quality of the engine oil is extremely important for the function and life of an engine. Based on extensive testing, BMW has approved only certain types of engine oils.

Use only approved "BMW High Performance Synthetic Oil."

If you are unable to obtain "BMW High Performance Synthetic Oil," you may use small volumes of other approved synthetic oils for topping up between oil changes. Use only oils with the specification API SH or higher.


 Ask your BMW center for details concerning the specific "BMW High Performance Synthetic Oil" or synthetic oils that have been approved. ◀

You can also call BMW of North America at 1-800-831-1117 or visit this website: www.bmwusa.com to obtain this information.

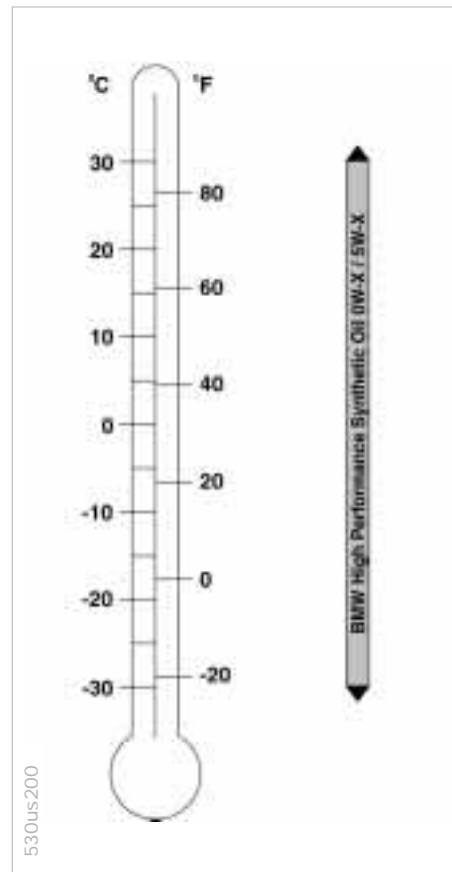
Viscosity ratings

Viscosity is the oil flow rating as established in SAE classes.

The selection of the correct SAE class depends on the climatic conditions in the area where you drive your BMW.

 Approved oils are in SAE classes 5W-40 and 5W-30. ◀

These kinds of oil may be used for driving in all ambient temperatures.



Engine oil



Always observe all environmental protection laws when disposing of used oil. ◀

Recommendation: have the oil changed by your BMW center only.



Continuous exposure to used oil has caused cancer in laboratory testing.

For this reason, thoroughly wash any areas of skin that come into contact with oil using soap and water. Always store oils, grease and similar materials so that they are inaccessible to children. Comply with warning labels and information on containers. ◀

Coolant



Do not add coolant to the cooling system when the engine is hot. If you attempt to do so, escaping coolant can cause burns.

To avoid the possibility of damage later on, never use anything other than factory-approved, nitrite and amino-free extended-duty antifreeze with corrosion inhibitor. Your BMW center is familiar with the official specifications. Antifreeze and anticorrosion agents are hazardous to health. You should always store it in its original container and in a location that is inaccessible to children. Extended-duty antifreeze with corrosion inhibitor contains ethylene glycol, a flammable substance. For this reason, do not spill antifreeze with corrosion inhibitor on hot engine parts. It could ignite and cause burns. ◀



Comply with the applicable environmental laws regulating the disposal of extended-duty antifreeze with corrosion inhibitor. ◀



Checking coolant level

Correct coolant level for cold engine (approx. 68 °F or +20 °C):

Unscrew the cap from the expansion tank.

The coolant level is correct when the upper end of the red float is at least even with the upper edge of the filler neck (refer to the arrow in the illustration), but no more than 0.8 in (2 cm) above it – that is, up to the second mark on the float (refer also to the schematic diagram next to the filler neck).

Adding coolant

Wait until the engine cools before removing the cap from the expansion tank. The needle of the coolant temperature gauge in the instrument cluster must be located in the blue zone. If it is not, there is a danger of scalding.

- 1 Turn the cap slightly counterclockwise in order to allow accumulated pressure to escape. Then open.
- 2 If the coolant is low, slowly add coolant until the correct level is reached – do not overfill.

The coolant is a mixture of water and extended-duty antifreeze with corrosion inhibitor. Always maintain the prescribed all-season 50:50 mixture ratio for year-round protection against internal corrosion. No other additives are required.

Replace the coolant every four years.

Brake fluid

The brake warning lamp comes on when the parking brake has been released:
Check the brake fluid level and if necessary, top up to the "MAX" mark.

For adding brake fluid or for determining and correcting the cause of brake fluid loss, consult your BMW center. Your BMW center is familiar with the specifications for factory-approved brake fluids (DOT 4).

Brake fluid loss can result in extended pedal travel. Comply with the information provided on page [126](#).



Brake fluid is hygroscopic, that is, it absorbs moisture from the air over time.

In order to ensure the safety and reliability of the brake system, have the brake fluid changed every two years by an authorized BMW center. Refer also to the Service and Warranty Information Booklet (US models) or the Warranty and Service Guide Booklet (Canadian models). Brake fluid is hazardous to health and damages the vehicle's paint. You should always store it in its original container and in a location that is inaccessible to children.

Do not spill the fluid and do not fill the brake fluid reservoir beyond the "MAX" mark. The brake fluid could ignite upon contact with hot engine parts and cause serious burns. ◀



Comply with the applicable environmental laws regulating the disposal of brake fluid. ◀



In the engine compartment, on the right-hand strut dome (arrow).



The BMW Maintenance System has been designed as a reliable means of providing maximum driving and operating safety – and as cost-effectively as possible for you.

Please keep in mind that regular maintenance is not only necessary for the safety of your vehicle, but also plays a significant role in maintaining the resale value of the vehicle.

Service Interval Display

Advanced technology is employed to calculate the optimal maintenance intervals. These are then indicated in the Service Interval Display. While conventional systems rely on distance traveled alone to determine when service is due, the BMW Maintenance System has for years considered the

actual conditions under which the vehicle operates, because miles can be traveled in many different ways: From a maintenance point of view, 62,000 miles (100,000 km) of short-distance urban driving are not equivalent to the same distance covered at moderate speeds in long-distance highway travel.

The BMW Maintenance System includes the Engine Oil Service and Inspections I and II.

Determining the maintenance intervals according to the actual use of the vehicle covers every kind of operating situation. However, even those who drive only short distances – significantly less than 6,000 miles (10,000 km) annually – should have the engine oil changed at least every 2 years, since oil deteriorates over time, regardless of use.

Service and Warranty Information Booklet (US models)/Warranty and Service Guide Booklet (Canadian models)

For additional information on maintenance intervals and procedures, please refer to the Service and Warranty Information Booklet (US models), or the

Warranty and Service Guide Booklet (Canadian models).

As a precaution against rust, it is advisable to have the body checked for damage from rocks or gravel at the same time, depending upon operating conditions.



Have your BMW center perform maintenance and repair.

Your BMW center is always informed on the latest maintenance work and repair techniques and equipped with the required special tools. In addition, checking parts known from experience to be subject to wear is a permanent part of the maintenance specifications. Be sure that all maintenance work is confirmed in the Service and Warranty Information Booklet (US models), or in the Warranty and Service Guide Booklet (Canadian models). These entries are your verification for the regular maintenance of your vehicle and are required for the performance of warranty repairs. ◀

Caring for your vehicle

Washing your vehicle

You can have your BMW washed in an automatic car wash, even when it is new. Car wash systems that do not employ brushes are preferable, refer to page 157.

Wipe away tough dirt and loosen and remove dead insects before washing the vehicle.

In order to avoid spots, do not wash the vehicle when the hood is warm, or during or immediately after exposure to strong sunlight.

When using an automatic car wash, be sure that:

- ▷ The car wash system is suited for the dimensions of your vehicle.
- ▷ No damage will occur on vehicles with attached body accessories (such as spoilers or antennas). Consult the car wash operator if necessary.
- ▷ The wheels and tires of your vehicle cannot be damaged by the conveyance devices of the car wash system.
- ▷ The vehicle is cleaned with minimum brush pressure, and that ample water is available for washing and rinsing.

Vehicles with rain sensor:

Clean the windshield regularly. Wax from automatic car washes or insects can cause malfunctions in the function of the rain sensor.



Deactivate the rain sensor when going through car washes (refer to page 77) – otherwise, the wipers could be damaged if they inadvertently start working. ◀

Parts of the vehicle that are inaccessible to the automatic washer – such as door sills, door and hood edges, etc. – should be cleaned by hand.

In the winter months, it is especially important to be sure that the vehicle is washed on a regular basis. Large quantities of dirt and road salt are difficult to remove, and they also damage the vehicle.



If spray wands or high-pressure washers are used, be sure to maintain an adequate distance between the spray source and the vehicle's surface. Inadequate distance and excessive pressure can damage or weaken the finish, making it more susceptible to subsequent attack. In addition, moisture could penetrate to vehicle components, leading to long-term damage. ◀



When cleaning the headlamps, please observe the following: do not wipe dry with a cloth (scratches). Never use abrasives or strong solvents to clean the covers. Remove dirt and contamination (such as insects) by soaking with BMW Car Shampoo and then rinsing with plenty of water. Always use a deicer spray to remove accumulated ice and snow – never use a scraper. ◀



After washing the vehicle, apply the brakes briefly to dry them. Braking efficiency might otherwise be reduced by the moisture and the brake rotors could also be corroded. ◀

Exterior finish

To provide effective corrosion protection, multilayer paintwork is applied at the factory. Cathaphoretic immersion priming techniques are supplemented using special body-cavity protectants, with the application of specially-developed and extensively tested materials. A layer of flexible PVC is first applied to the undercarriage. Following this, a comprehensive undercoating treatment with a wax-based protectant is applied. Regular maintenance makes an important contribution to maintaining the safety and value of your vehicle.

Increasing awareness of the effects of harmful environmental factors on vehicle finishes have led paint and vehicle manufacturers to initiate ongoing programs designed to further improve the durability of their finishes. Despite this, environmental factors that occur locally or regionally can have negative effects on the finish of your vehicle. Use the factors to determine the frequency and extent of your efforts to maintain the vehicle finish.

Depending upon material and type of impact (perforation of paint layer), physical stresses from sand, road salt, gravel, etc., can cause corrosion to start extending beneath the finish, starting at the point of impact.

Road dirt, tar spots, dead insects, animal droppings (strong alkali effect) and tree excretions (resins and pollen) all contain substances capable of causing damage when allowed to remain on the finish of your vehicle for any period of time. This includes spots, etching, flaking, and separations in the top coat.

In industrial areas, deposits of flue dust, lime, oily soot, precipitation containing sulfur-dioxide (acid rain) and other environmental pollutants will damage the vehicle's finish unless adequate care is provided – even though this is generally limited to the outside horizontal surfaces.

In coastal regions, high levels of atmospheric salt and humidity promote corrosion.

In tropical zones, temperatures of over 105 °F (+40 °C) in the shade prevail, in addition to heavy ultraviolet radiation and high humidity. Under these conditions, light paints can reach temperatures of up to 175 °F (+80 °C) and dark paints up to 250 °F (+120 °C).

Caring for your vehicle

Caring for the vehicle's finish

Regular washing is a preventive measure against long-term effects from substances that are harmful to the vehicle's finish, especially if you drive your vehicle in areas with high levels of air pollution or aggressive natural substances (tree resins, pollen).

Nevertheless, you should immediately remove especially aggressive substances. Failure to do so can lead to changes in the paint's chemical structure or to discoloration. Gasoline spilled during refueling, oil, grease and brake fluid should always be cleaned away immediately, as should bird droppings.

Any contamination remaining on the surface of the vehicle will be especially conspicuous after washing. Use cleaning fluid or alcohol with a clean cloth or cotton pad to remove. Remove tar spots with tar remover. After cleaning, the affected areas should be waxed to ensure continued protection.



Use the cleaning and car-care products available at your BMW center. ◀

Waxing your vehicle

Protect the finish using carnauba or synthetic-based waxes only.

The best way to determine when the finish needs to be waxed is by noting when water stops beading on the surface.

You can use a glass cleaner to remove any wax or silicone that may have been left on the windows during waxing.



Use the cleaning and car-care products available at your BMW center. ◀

Paint damage

You can touch up small areas of paint damage with a BMW spray paint or a BMW touchup stick.

The paint color code for your vehicle is provided on a sticker located on the right hand-side under the hood and on the first page of your Service and Warranty Information Booklet (US models) or Warranty and Service Guide Booklet (Canadian models).

Damage caused by flying stones, scratches, etc., must be touched up without delay to prevent rust from forming.

If corrosion has started to form in an area with paint damage, remove all rust and clean the area. Then prime the area with a BMW Primer Stick. Finally, apply the finish coat. Wait a few days, then polish the repaired area. Finish by applying a wax preservative.

More extensive paint damage should be repaired professionally in accordance with the manufacturer's instructions. Your BMW center uses original BMW finish materials in accordance with approved repair procedures.

Window care

You can use window and glass cleaner to clean inside window surfaces and mirrors without smearing and streaking. Never use polishing pastes or abrasive (quartz) cleansers on mirror lenses.

Clean the wiper blades with soapy water. The wiper blades should be replaced twice a year – before and after the winter months. This is especially important for vehicles with a rain sensor.



Use only wiper blades approved by BMW. ◀

Caring for other vehicle components and materials

Light-alloy wheels should be treated with alloy wheel cleaner, especially during the winter months. However, do not use aggressive products containing acids, strong alkalis or abrasive cleaning agents, nor steam cleaners operating at temperatures above 140 °F (+60 °C) (follow the manufacturer's instructions).

If your vehicle has chrome parts*, such as the window frames and door handles, clean these parts carefully with ample clean water and a shampoo supplement if desired, especially if they have an accumulation of road salt. Use a chrome polish for an additional treatment.

Plastic components, vinyl upholstery, headliners (hardtop), lamp lenses, the clear cover of the instrument panel and components with a sprayed dull black surface can be cleaned with water (add plastic shampoo as required). Do not allow moisture to soak through the seats or headliner (hardtop). Never use solvents such as lacquer thinner, heavy-duty grease remover, fuels, or similar substances.

Rubber components should be cleaned with water only; a rubber treatment or silicone spray may also be applied.

Do not remove safety belts to clean them. Clean them with mild soapy water only. Do not use chemicals or dry cleaners to clean safety belts, since this could damage the belt fabric.

After cleaning, never allow the inertia reel to retract the belts until they are completely dry. Dirty safety belts prevent the inertia reel mechanism from retracting the strap properly, and thus constitute a safety hazard.

Heavily soiled floor carpets and mats* can be cleaned with an interior cleaner. The floor mats can be removed from the vehicle for cleaning.

Use only a damp cloth to clean trim panels made of real wood* and other parts constructed of real wood*. Follow up by drying with a soft cloth.



Use the cleaning and car-care products available at your BMW center. ◀

Caring for your vehicle

Care of upholstery materials

Depressions in the upholstery that result from everyday use can be brushed smooth by brushing against the nap with a lightly dampened brush.

The tendency of the pile to lie in a particular direction on velour upholstery is not a quality defect. Just as with home textiles or clothing, this cannot be avoided.

Lint on upholstery materials, textile or leather remnants that have been worn into the upholstery may be removed with a lint brush or a Velcro brush. A cleaning glove is available for particularly "stubborn" lint. Stains and fairly large areas of dirt should be cleaned off without delay, using lukewarm water and an interior cleaner, stain remover or appropriate cleaning fluid. Brush the fabric afterwards to restore its appearance.

If the vehicle will be stored for an extended period or if it is exposed to intense sunlight, cover all the seats or the windows to prevent fading.



Use the cleaning and car-care products available at your BMW center. ◀

The buildup of an electrostatic charge on the seat covers, particularly if atmospheric humidity is low, can give the occupants an unpleasant electric shock if they touch metal body parts after leaving the vehicle. Although this is not dangerous in any way, it can be avoided by touching a bare or polished metal part of the vehicle while getting out.

Leather care

The leather* upholstery used by BMW is a natural product of the highest quality, processed using state-of-the-art methods to ensure that it will maintain its high quality for years to come, provided that it is properly cared for.

Because this product is manufactured using natural materials, you must make allowance for its special characteristics and for the peculiarities of its use and care.

Regular periodic cleaning and care are essential, as dust and road dirt act as abrasives in the pores and creases of the material. This leads to wear spots and premature brittleness on the surface of the leather. We therefore suggest that you clean the leather with a vacuum cleaner or cloth at frequent intervals.

For cleaning, use BMW leather cleaning foam.

Since dirt and grease gradually attack the protective layer of the leather, the cleaned surfaces should be treated with BMW leather care agent. This also acts as an antistatic agent.

For protection against dampness or moisture, treat the leather with a BMW impregnating agent.

We recommend that you perform this procedure twice a year on leather exposed to normal use.

Spills should be wiped up immediately. Remove grease and oil stains by dabbing with spot remover. Avoid rubbing.

If the upholstery is to be exposed to intense sunlight or if the vehicle is to be stored for an extended period, cover all leather surfaces (or, better yet, the windows) to prevent fading.



Use the cleaning and car-care products available at your BMW center. ◀



Cleaning agents can contain substances that are dangerous or that pose health risks. For this reason, always comply with the warnings and danger notices on the packaging. Open the doors or windows on your vehicle whenever cleaning the interior. Never clean your vehicle with solvents or other materials not specifically intended for this purpose. ◀

Care

The appearance and life of the convertible top are highly dependent on its proper care and operation. You should pay particular attention to the following instructions if your car has a light-colored top.

Protect the vehicle from exposure to intense sunlight whenever possible by parking it in the shade. This will help to prevent the paint, rubber and fabric-covered parts from being worn out.

Never stow the convertible top in the convertible top compartment when it is wet, dirty or frozen, since this can cause mildew stains and chafe marks.

To prevent mildew stains, do not keep the convertible top enclosed in the convertible top compartment for any extended period of time.

If the vehicle will be parked for lengthy periods in an enclosed space, be sure that the convertible top is dry and that there is adequate ventilation.

Clean off bird droppings immediately, since they attack the convertible top and cause the rubber seals to swell due to their caustic characteristics.

Besides water, treat rubber seals only with talcum powder, rubber care products or silicone spray, particularly when they feel dry or tend to stick.

Eliminate noises such as squeaks with lubricant spray.

Depressions and discoloration may occur in the convertible top as a result of improper maintenance and cleaning or due to loading from excessive use. The convertible top and its seams may also develop leaks. These occurrences are not covered by the warranty. For repairs, please consult your BMW center.

Washing your car

You can wash your BMW at an automatic car wash. Brushless systems are preferable.

If a brushless car wash is unavailable and a brush car wash must be used, modern systems with soft brushes are preferable. Do not select the wax finish option. The small amount of beading wax always used in automatic car washes will not harm your vehicle's finish.

In the case of more extensive dirt, which is definitely visible on light-colored top materials, clean the top with the BMW Convertible Cleaning Set. Please proceed as follows:

Spray the convertible top with the cleaning agent and then rub with a well-dampened sponge using circular motions until a foam develops. Then you can finish washing the vehicle in an automatic car wash. After washing your vehicle 3 to 5 times, you should treat the convertible top with a special convertible top impregnating spray. Please follow the instructions on the spray can.

Do not use spot removers, paint thinners, solvents, gasoline or similar substances for removing spots from the convertible top or from the rear window. These materials destroy the rubber seals, which will lead to leaks. Use only BMW-approved cleaners.



Cleaning agents can contain substances that are dangerous or pose health risks. Therefore, always comply with the warnings and danger notices on the package.

Open the doors or windows on your vehicle whenever cleaning the interior. Never clean your vehicle with solvents or other materials not specifically intended for this purpose. ◀



Positioning for cleaning

In order to have free access to the convertible top compartment, lean the rear convertible top bow against the convertible top compartment lid (see illustration).

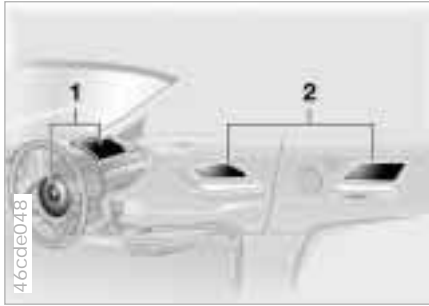


First release the convertible top locks, see page [45](#) or [50](#). ◀

Hardtop*

Please follow the information for caring for your vehicle, which starts on page [151](#).

Airbags



- 1 Front airbags for driver and passenger
- 2 Side airbags for driver and passenger (front and rear*)

Important safety notices



Do not attempt to remove the gas generators of the airbag supplemental restraint system from the vehicle. Testing and servicing must be performed by trained technicians only. In the event of a malfunction, deactivation, or triggered actuation (as a response to an accident) of the airbag restraint system, consult your BMW center for repairs or service operations.

Do not modify or tamper with either the wiring or the individual components in the airbag system. These include the padded steering wheel hub, the instrument panel, the side trim panels of the front doors and in the rear. Do not apply adhesive materials to these components or cover them over or alter them in any other way. Do not attempt to remove or dismantle the steering wheel.

To ensure compliance with official safety regulations, entrust disposal of airbag generators to a BMW center.

Unprofessional attempts to service the system could lead to failure in an emergency or undesired airbag activation, either of which could result in personal injury. ◀



If you plan on parking the vehicle for more than three months, have the maintenance operations described on this page performed. ◀

Preparations for storage

Have your BMW center perform the following procedures:

- 1 Clean and apply a rustproofing agent or other treatment to the engine, engine compartment, undercarriage, axles and major components in accordance with approved repair procedures. First wash the vehicle surface, then clean the interior, following up with paint and chrome care, after which you clean the rubber seals for the hood and doors.
- 2 Change the engine oil and oil filter at operating temperature. As an additional corrosion protection measure, an anticorrosive agent can be added to the engine in accordance with the manufacturer's instructions.
- 3 Check the coolant level and concentration and top up if necessary.
- 4 Check the fluid level of the windshield washer fluid reservoir and top up if necessary.
- 5 Fill the fuel tank completely to prevent the formation of condensation.
- 6 Increase the tire inflation pressure to 51 psi (350 kilopascal).

Before parking the vehicle

- 1 To prevent the brake discs and drums from corroding, dry the parking and footbrake by applying the brakes.
- 2 Park the vehicle in a covered, dry and well-ventilated space. Place the transmission in 1st gear or set the selector lever to the "P" position. Chock the wheels to prevent the vehicle from rolling if necessary. Do not set the parking brake.
- 3 Remove the battery, charge it completely and store it in a cool (but frost-free) room.
- 4 Remove the hardtop and store separately. Refer to page [130](#).
- 5 Close the convertible top.

During storage

Recharge the battery every six months. If it is not recharged, it will not be serviceable. Every time the battery is drained, especially over extended periods, its service life is reduced.

Removing the vehicle from storage

Recharge the battery if the "Magic Eye"* turns black. Refer to page [176](#).

Then have Inspection I performed by your BMW center, including a brake fluid replacement if necessary. Refer to the Service Manual.

Technical modifications

Any BMW center will be glad to inform you of the advisability, legal requirements and factory recommendations regarding technical modifications on your vehicle. For this purpose, the BMW center will require the Vehicle Identification Number and, in some cases, also the engine number.

Light-Emitting Diodes (LEDs)

Light-emitting diodes installed behind translucent lenses serve as the light source for many of the controls and displays in your vehicle. The concept behind their operation is related to that employed for lasers.



Do not remove the protective lens and avoid staring directly at the unfiltered beam for extended periods (several hours), as inflammation of the iris could result. ◀

California Proposition 65 Warning

California laws require us to state the following warning:



Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. ◀



The OBD interface socket for onboard diagnostics is located on the driver's side, on the left-hand bottom of the instrument panel and under a cover panel. The cover is marked with the letters "OBD".

The purpose of the OBD system is to assure proper emission control system operation for the vehicle's lifetime by monitoring emission-related components and systems for deterioration and malfunction.



An illuminated indicator informs you of the need for service, not that you need to stop the vehicle. Your system should be checked, however, at the earliest possible opportunity. If the indicator blinks or flashes, this indicates a high level of engine misfire. Reduce speed and contact the nearest BMW center immediately. Severe engine misfire over even a short period of time can seriously damage emission control components, especially the catalytic converter.

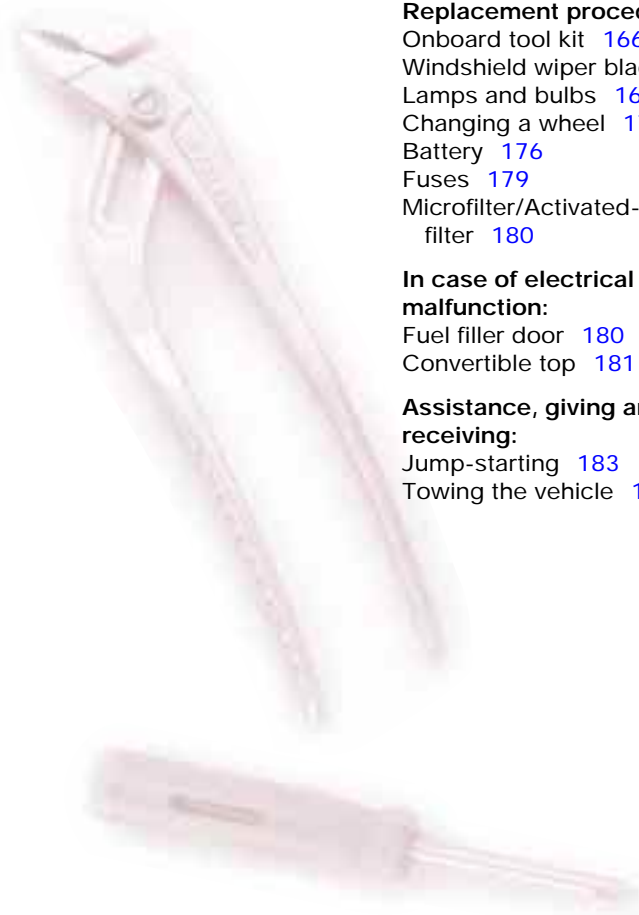


Service Engine Soon warning lamp for Canadian models.



If the fuel filler cap is not on tight enough, the OBD system can detect leaking vapor and the indicator will light up. If the fuel filler cap is then tightened, the indicator will usually go out after a short period of time. ◀



**Replacement procedures:**

Onboard tool kit [166](#)
Windshield wiper blades [166](#)
Lamps and bulbs [166](#)
Changing a wheel [173](#)
Battery [176](#)
Fuses [179](#)
Microfilter/Activated-charcoal filter [180](#)

In case of electrical malfunction:

Fuel filler door [180](#)
Convertible top [181](#)

Assistance, giving and receiving:

Jump-starting [183](#)
Towing the vehicle [184](#)

Overview**Controls and features****Operation, care and maintenance****Owner service procedures****Advanced technology****Technical data****Index**



The onboard tool kit is located in the luggage compartment lid.

Loosen the wingnut to open.

Windshield wiper blades



- 1 Rotate the wiper arm completely out from the windshield.
- 2 Position the wiper blade at an angle and pull the release spring (arrow).
- 3 Fold the wiper blade down and unhook it toward the windshield.
- 4 Pull the wiper blade past the wiper arm toward the top.
- 5 Insert a new wiper blade and apply pressure until you hear it engage.



Use only wiper blades approved by BMW. ◀

Lamps and bulbs

The lamps and bulbs are essential factors contributing to the safety of your vehicle. For this reason, follow the instructions below carefully when replacing a bulb. If you are not familiar with any of the procedures, consult your BMW center.



Do not touch the glass portion of a new bulb with your bare hands since even small amounts of impurities burn into the surface and reduce the service life of the bulb. Use a clean cloth, paper napkin, or a similar material, or hold the bulb by its metallic base. ◀

A replacement bulb set is available from your BMW center.



Whenever working on the electrical system, switch off the electrical accessory you are working on or disconnect the cable from the negative terminal of the battery. Failure to do this could result in short circuits. To prevent injuries and damage, comply with any instructions provided by the bulb manufacturer. ◀




The illustration shows the left-hand side of the engine compartment.

1 Low beams


H7 bulb, 55 watts

2 High beams

H7 bulb, 55 watts


 The H7 bulb is pressurized. Therefore, wear safety glasses and protective gloves. Failure to comply with this precaution could lead to injury if the bulb is accidentally damaged during replacement. ◀

- 1 Press the two locks at the front and turn left to release the bulb holder.
- 2 Remove and replace the bulb.

 When cleaning the headlamps, please observe the following: do not wipe dry with a cloth (scratches). Never use abrasives or strong solvents to clean the covers. Remove dirt and contamination (such as insects) by soaking with BMW Car Shampoo and then rinsing with plenty of water. Always use a deicer spray to remove accumulated ice and snow – never use a scraper. ◀

Xenon lamps*

The service life of these bulbs is very long and the probability of a failure is very low, provided that they are not switched on and off an unusual number of times. Nevertheless, if one of the lamps should fail, you can continue driving using the fog lamps if local laws permit this.

 Because of the extremely high voltages involved, any work on the lighting system, including bulb replacement, should be performed only by technicians with the appropriate qualifications. Failure to comply with this creates a risk of fatal injury. ◀



The illustration shows the left-hand side of the engine compartment.

Parking lamps

5 watt bulb

- 1 Turn the bulb holder to the left (arrow) and remove it.
- 2 Remove and replace the bulb.



Front turn signal indicators

21 watt bulb

- 1 Using a screwdriver, release the inner hook through the upper opening.
- 2 Remove lamp by pulling it out toward the front.
- 3 Applying light pressure, turn the bulb to the left. Remove and exchange the bulb.



- 4 Insert the 2 pins on the lamp into the guides on the vehicle.
- 5 Push the lamp in. Carefully apply pressure until you hear it snap into place.



Side turn signal indicators

5 watt bulb

- 1 Use finger pressure against the rear end of the lens (arrow) to press it forward for removal.
- 2 Apply gentle pressure to the bulb while turning it to the left to remove.



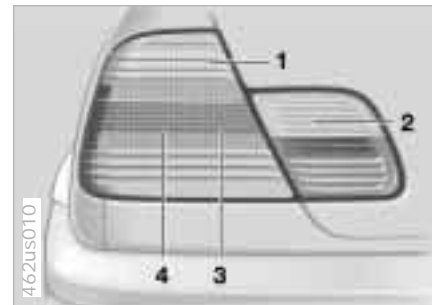
Front fog lamps

HB4 bulb, 55 watts



The bulb is pressurized. Therefore, wear safety glasses and protective gloves. Failure to comply with this precaution could lead to injury if the bulb is accidentally damaged during replacement. ◀

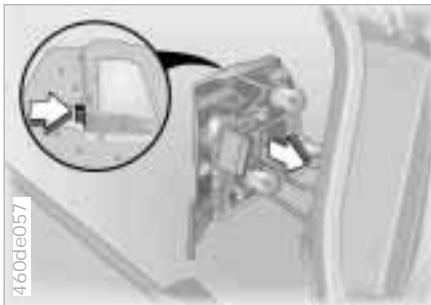
Please contact a BMW center in the event of a malfunction.



Tail lamps

Tail lamps (4): 21/4 watt bulbs
Remaining bulbs: 21 watts

- | | |
|-------------------------|--------|
| 1 Turn signal indicator | yellow |
| 2 Backup lamp | white |
| 3 Tail lamp | red |
| 4 Tail lamp/Brake lamp | red |



The illustration shows the right-hand luggage compartment opening.

Bulbs in the fender:

All of the bulbs are integrated in a central bulb holder.

- 1 Release the bulb holder (arrow, partial view) and remove.
- 2 Unplug the power supply receptacle. Set the bulb holder aside (on the luggage compartment floor, for example).
- 3 Applying light pressure, turn the bulb to the left. Remove and exchange the bulb.
- 4 Plug in the power supply receptacle.
- 5 Position the bulb holder for reinstallation. Apply gentle pressure on the button (arrow, partial view) until you hear it engage.



Bulbs in the luggage compartment lid:
1 Using a screwdriver, loosen the clip.



- 2 Fold the trim panel down (arrow 1). Disengage the bulb holder (arrow 2) and remove it.
- 3 Applying light pressure, turn the bulb to the left. Remove and exchange the bulb.
- 4 Press the bulb holder into position until you hear it engage.
- 5 Reinstall the trim with the clip.



Center (high-mount) brake lamp

LED light bar on the rear window.

Please contact a BMW center in the event of a malfunction.



License plate lamps

5 watt bulb

- 1 Place a screwdriver in the slot and press toward the left (arrow) to release the lens.
- 2 Replace the bulb.



Interior lamps

Front:

Interior lamp (6 watt bulb)

Reading lamps (2 x 6 watt bulbs)

- 1 Using a screwdriver, press the lamp out toward the front.
- 2 Turn the bulb holder to the left and remove it.
- 3 Remove and replace the bulb.



Rear (for hardtop only):

Interior lamp (6 watt bulb)

Reading lamp (6 watt bulb)

- 1 Press the lamp out using a screwdriver.
- 2 Turn the bulb holder to the left and remove it.
- 3 Remove and replace the bulb.

Footwell lamps

5 watt bulb

- 1 Press the lamp out using a screwdriver.
- 2 Replace the bulb.

Glove compartment lamp

5 watt bulb

- 1 Press the lamp out using a screwdriver.
- 2 Replace the bulb.

Luggage compartment lamps

One lamp each in the bulb holders of the tail lamp assembly: 10 watt bulbs

- 1 Apply a screwdriver to the recess and remove the lens.
- 2 Replace the bulb.

Changing a wheel



Take these precautionary measures if you have either a flat tire or are changing the tire: Stop the vehicle as far as possible from passing traffic. Park on a firm, flat surface. Switch on the hazard warning flashers. Turn the steering wheel to the straight-ahead position, remove the key and engage the steering lock. Shift into 1st or reverse gear (selector lever in "Park" with automatic transmission) and engage the parking brake. All passengers should be outside the vehicle and well away from your immediate working area (behind a guardrail, for instance).

Set up a warning triangle* or portable hazard warning on the roadside at an appropriate distance from the rear of the vehicle. Comply with all safety guidelines and regulations.

Change the wheel only on a level, firm surface which is not slippery. Avoid jacking the vehicle on a soft or slippery support surface (snow, ice, loose gravel, etc.), as it could slide sideways. Position the jack on a firm support surface.

Do not place wooden blocks or similar objects under the jack. If this is done, the jack might not be able to reach its full support capacity because of the

limited height.

Do not lie under the vehicle or start the engine when the vehicle is supported by the jack. Failure to comply with this creates a risk of fatal injury. ◀

Your BMW has a space-saver spare tire for temporary use to ensure your mobility.



To remove the space-saver spare tire, take out the floor panel in the luggage compartment completely (refer to page 41). ◀



You will need the following:

In order to avoid rattling noises later, note the position of the tools when you remove them and return them to their original position when you are through using them.

▷ Jack (1)

Raise the floor panel in the luggage compartment (refer to page 41) and unclip the jack from where it is stored (arrow).

After use, swing the crank back and clip into place.

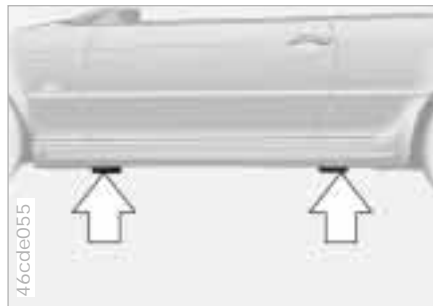
▷ Wedge (2)

Located behind the jack on the wall in the luggage compartment. Loosen the wing nut to remove it.

174 Changing a wheel

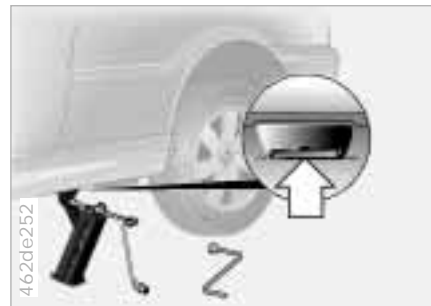


- ▷ Space-saver spare tire
Next to the jack.
Loosen the wing nut (arrow) by hand, remove the storage shelf and take the wheel out.
- ▷ Lug wrench – in the onboard tool kit on the underside of the luggage compartment lid (refer to page 166).



Procedure

- 1 Read and comply with the safety precautions provided on the previous page.
- 2 Secure the vehicle from rolling:
Place the wedge against the rear surface of the front tire on the side opposite the side being raised. If the vehicle is parked on a downward slope, place the wedge securely in front of this tire. If the wheel must be changed on a surface with a more severe slope, take additional precautions to secure the vehicle from rolling.
- 3 If your wheels are equipped with full wheel covers*: reach into the ventilation openings and pull the cover off.



- 4 Loosen the lug bolts with a $\frac{1}{2}$ turn.
- 5 Position the jack at the jacking point closest to the flat tire (refer to the center illustration) so that the jack base is vertically below the jacking point and the entire surface of the head of the jack will move into the square recess of the jacking point (refer to the illustration detail) when the jack is cranked.
- 6 Crank the vehicle up until the wheel in question is raised from the ground.
- 7 Unscrew the lug bolts and remove the wheel.
- 8 Remove accumulations of mud or dirt from the mounting surfaces of the wheel and hub; clean the lug bolts.



- 9 Position the new wheel or the space-saver spare tire on the hub and screw at least two lug bolts finger-tight into opposite bolt holes.
- 10 Screw in the remaining lug bolts. Tighten all the bolts securely.
- 11 Lower the jack and remove it from beneath the vehicle.
- 12 Tighten the lug bolts in a diagonal pattern.



- 13 If your wheels are equipped with full wheel covers*: position the wheel cover with the valve opening over the valve (arrow) and press it onto the wheel with both hands.
- 14 Check and correct the tire's inflation pressure at the earliest possibility. For vehicles with Tire Pressure Control (RDC): Reactivate the system after mounting the space-saver spare tire or after correcting the air pressure. Refer to page 91.



Only use original BMW full wheel covers, otherwise, the trim piece may not fit securely. The full wheel cover may not be installed on the space-saver spare tire since this could damage the cover. ◀



The vehicle jack is designed for changing wheels only. Do not attempt to raise another vehicle model with it or to raise any load of any kind. To do so could cause accidents and personal injury. To ensure continued safety, have the tightness of the lug bolts checked with a calibrated lug wrench [torque specification: 72 lb.ft (100Nm)] at the earliest opportunity. ◀

When storing the wheel, be sure that you do not damage the retaining pin in the spare tire recess.

If light-alloy wheels other than original BMW light-alloy wheels have been mounted, it may be necessary to use different lug bolts for those wheels.


Replace the defective tire as soon as possible and have the new wheel/tire balanced.

Driving with the space-saver spare tire

Drive cautiously and do not exceed a speed of 50 mph (80 km/h).


Be aware that vehicle handling will be altered. Slower brake response time, longer braking distances and changed steering characteristics may be anticipated when approaching limit conditions.

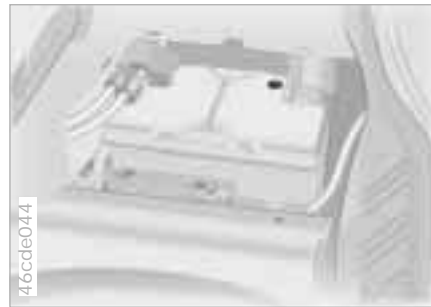
The changes in handling characteristics will be even more pronounced in conjunction with winter tires.

 Only one space-saver spare tire* may be mounted at a time. Mount a wheel and tire with the same size and specifications as the others at the earliest possible opportunity. Maintain correct tire pressures. Refer to page 28. ◀

Battery**Location**


The battery is located at the right-rear of the luggage compartment. Remove the luggage compartment floor panel (refer to page 40), and give a screwdriver or a coin a ¼-turn counter-clockwise to release and remove the two fasteners, plus an additional fastener in the top center side trim panel. In order to remove the storage tray, slide the side trim panel slightly upward.

 Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling. ◀

**Charge condition**

You can read the charge condition of the battery with the "Magic Eye"* (a hydrometer):


- ▷ Green: adequate charge.
- ▷ Black: not adequately charged. The battery must be recharged. Please contact your BMW center for additional information.
- ▷ Yellow: replace the battery.

 The service life specified for the battery can be achieved only if it is always kept adequately charged. If the vehicle is primarily used for stop-and-go traffic, be sure to check the charge state more often. ◀

Battery

Battery care

The battery is completely maintenance-free. That means that the original electrolyte will normally last for the service life of the battery under moderate climatic conditions.

 For all questions that regard the battery, please consult your BMW center. Since the battery is absolutely maintenance free, the following is for your information only. ◀

Symbols

You will find the following symbols on your vehicle battery. To avoid injury, please comply with the corresponding precautions whenever you work with or near the battery.



Before handling the battery, please read the following information.



Wear eye protection. Do not allow particles containing battery acid or lead to come into contact with your eyes, your skin, or your clothing.



Battery acid is extremely corrosive. Wear eye protection and protective gloves. Do not tip the battery. Battery acid can leak from the ventilation openings.



Do not allow children access to batteries and battery acid.



Never allow sparks or open flame in the vicinity of the battery. Avoid sparks from electrical cables or electrical equipment. Turn the key to position 0 in the ignition lock when disconnecting or connecting the battery. Do not short circuit the battery terminals. This creates a risk of injury from high-energy sparks.



A highly explosive gas is generated when the battery is charged.



If you happen to get acid in your eyes, rinse thoroughly for 15 minutes with clear water.


Consult a physician immediately. If you get acid spray on your skin or clothing, rinse with plenty of water. If electrolyte is accidentally ingested, consult a physician immediately.



In order to protect the battery case from ultraviolet radiation, do not place it in direct sunlight.

A discharged battery can freeze. Store the battery in areas where temperature remains above freezing.


Removal and installation

 Do not disconnect the battery when the engine is running. If you do so, the ensuing voltage surge will damage the vehicle's onboard electronics.

Do not make any modifications in the wires to the positive terminal. If you do so, the protective function of the safety battery terminal is no longer ensured. Repair and disposal must be performed by trained technicians only. ◀


When removing the battery, disconnect the cable on the negative terminal first, then the cable on the positive terminal. Loosen the center adjusting screw on the battery retaining strap (use the screwdriver included with the onboard tool kit) and disconnect the strap.

When installing a battery, connect the positive terminal first, then connect the negative terminal.

 When installing a battery, be sure that it is mounted properly and that the retaining bracket is installed with the center adjustment screw. If this is not done, the battery will not be adequately secured in case of an accident. ◀


Charging the battery


Charge the battery in the vehicle only when the engine is not running.

 Before doing any work on the electrical system, be sure to unclamp the cable from the battery's negative terminal. Failure to do so can result in short circuits, a fire or personal injury. ◀

If you plan to park the vehicle for longer than 4 weeks, disconnect the battery from the vehicle electrical system by disconnecting the cable at the negative terminal. Have the battery recharged with an appropriate battery charger.

If the vehicle is parked for more than 12 weeks, remove the battery, recharge it and store it in a cool yet frost- and dust-free area. During storage, have the battery recharged every 3 months. Also, recharge the battery before it is reinstalled. If this is not done, the battery will not be serviceable. Every time the battery is discharged, especially over extended periods, its service life is reduced.

 Return used batteries to a recycling center or your BMW center. Maintain the battery in an upright position for transport and storage. Secure the battery to prevent it from tilting during transport. ◀

 Storage periods during which the battery is disconnected are not taken into consideration by the Service Interval Display for changing the brake fluid. For this reason, be sure that the brake fluid is changed every two years, regardless of the information displayed. Please read the pertinent information on page 148. ◀

Fuses



If an electrical accessory should fail, switch it off and check the fuse.

In the glove compartment

- 1 Open the glove compartment and turn the two white quick-release fasteners outward. Spare fuses and plastic tweezers are located on the fuse holder.
- 2 Use the plastic tweezers to remove the fuse for the accessory or equipment that has stopped working.
- 3 If the fuse has blown (the metal strip is melted and separated), replace it with a new fuse of the same ampere rating (color code).

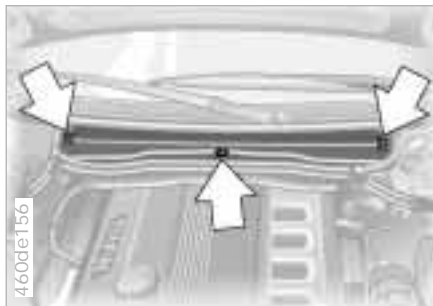
A list of fuses, their respective ampere ratings and the equipment in their circuits are all indicated below the fuse holder.

To close the fuse holder, snap it into position at the top and turn the two fasteners inward.

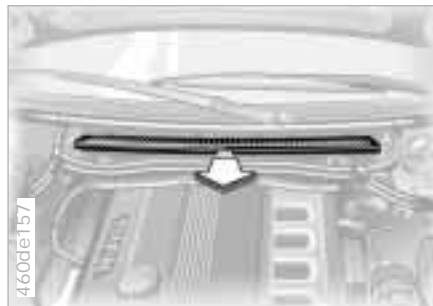


Do not attempt to repair a burned fuse or replace it with a fuse having a different color or ampere rating. To do this could cause a fire in the vehicle resulting from a circuit overload. ◀

If a fuse blows repeatedly, refer the problem to your BMW center for repair.



- 1 Open the hood.
- 2 Loosen the three fasteners (arrows) with a ¼-turn.
- 3 Remove the filter cover.



- 4 Remove the filter by pulling toward the front and install a new one.
- 5 Position the filter cover and secure it with the three fasteners.




Manual release

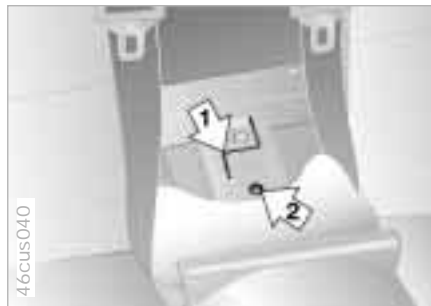
Pull the knob with the fuel pump symbol (arrow) on the right trim panel of the luggage compartment.




Closing manually in the event of an electrical fault

 The best way to close the convertible top manually is to stand outside the car, keeping the driver door open and the driver seat folded forward. The rear seat must be empty. ◀

- 1 Remove the filler piece between the rear seats. Take the trim off of the guide rod and flip it forward. Press down hard on the emergency release (arrow). After a brief pause, the drive systems for the convertible top compartment will be unlocked.

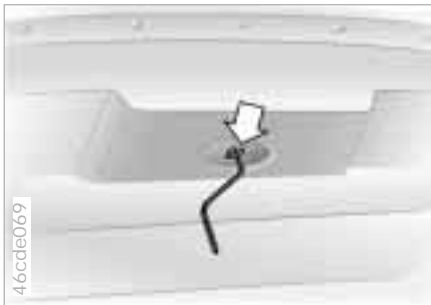


 If the mechanisms for the convertible top compartment lid do not unlock, then insert the Allen wrench (1) into the recess (2) and turn clockwise until the mechanisms unlock. ◀



- 2 If the luggage compartment lid is closed, open the convertible top compartment lid up as far as possible.
- 3 Lift out the the convertible top by holding on to the lateral guide section (1) and the front convertible top frame (2). Position the rear convertible top bow vertically and close the convertible top compartment lid. Flip the rear convertible top bow downward.

182 Convertible top



Please consult your BMW center to have the defect corrected. ◀



In the event of an electrical defect, never open the convertible top manually. The convertible top compartment lid cannot be locked, and would open while you are driving. ◀

- 4 Use a screwdriver to lift out the cover panel in the center of the front convertible top frame.
- 5 Insert the Allen wrench (stored next to the emergency lock; refer to page 181) in the hex slot (arrow).
- 6 Pull down on the front convertible top frame as far as possible. Complete the closing process by continuing to turn the wrench to the left. Do this until the front convertible top frame has locked onto the windshield frame. The rear convertible top frame will automatically be pressed down onto the convertible top compartment lid and because of the tension, will close completely.

Jump-starting

Do not use spray starter fluids.

If the battery is discharged, the engine can be started with the use of two jumper cables and the battery of another vehicle. Use only jumper cables with fully insulated grips on the terminal clamps.



Do not touch the parts conducting electrical current while the engine is running. Failure to comply with this creates a risk of fatal injury. ◀

Carefully comply with the following instructions to avoid personal injury or damage to one or both vehicles:

- 1 Be sure that the battery on the support vehicle is also rated at 12 volts, and that the capacities of the two batteries (Ah) are roughly comparable (printed on casing).
- 2 Leave the drained battery connected to the vehicle's electrical system.
- 3 Make sure that there is no contact between the bodywork of the two vehicles – this creates a risk of short circuits.
- 4 Start by connecting the jumper cable from the positive terminal of the support vehicle to the positive terminal connector located in your BMW's engine compartment. The



- cover of the positive terminal connector is marked with a "+" sign. Refer to the illustration. Remove by pulling the tab (arrow 1).
- 5 Then connect the negative terminals. Attach the cable to either the support vehicle's negative battery terminal, or to a suitable ground on its engine or bodywork. Then connect the other end of the cable to a ground on the engine or on the bodywork of the vehicle that is to be started. There is a special nut provided for this on the BMW (arrow 2).



Follow the same sequence for connecting the jumper cables when helping other vehicles. If you do not, there is the risk of injury if sparks are generated at the battery. ◀

- 6 Start the support vehicle's engine and let it run.
- 7 Start the engine on the vehicle needing the jump-start, and allow it to run as usual. If the first start attempt is not successful, wait a few minutes before another attempt in order to allow the discharged battery to recharge.
- 8 Before disconnecting the jumper cables from your BMW, turn on the lighting, the rear window defroster and set the blower to the highest speed; allow the engine to run approx. 10 seconds. This will prevent a voltage surge from the voltage regulator to the electrical accessories.
- 9 Then disconnect the jumper cables in reverse sequence.

Depending on the cause of the fault, recharge the battery.



Tow fitting

The screw-in tow fitting is stored in the onboard tool kit; be sure that it remains in the vehicle at all times. This fitting is designed for installation in the towing sockets located at the front and rear of the vehicle. It is intended for towing on paved road surfaces only. This fitting should not be used to pull a vehicle out of deep snow, mud, sand, etc. Always comply with all applicable towing laws and regulations.

Access to towing socket


Front:

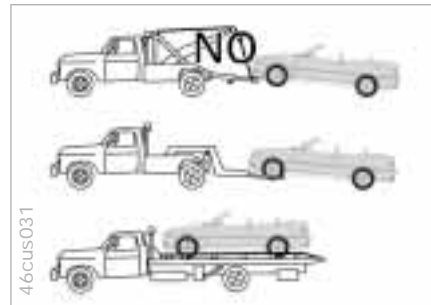
Use a screwdriver to press out the cover at the top of the recess.



Rear:


Use a screwdriver to press out the cover at the top of the recess.

 Screw the tow fittings in completely and tightly. If you do not, the threads could be damaged. Do not tow the vehicle by any components of the running gear, or lash them down in any way. If you do so, the components could be damaged, leading to possible accidents. ◀



Towing with a commercial tow truck

- ▷ Do not tow with sling-type equipment.
- ▷ Use wheel lift or flat bed equipment.
- ▷ Please comply with applicable state towing laws.

 Never allow passengers to ride in a towed vehicle for any reason. Never attach tie-down hooks, chains, straps, or towing hooks to tie rods, control arms, or any other part of the vehicle suspension, as severe damage to these components will occur, leading to possible accidents. ◀





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In order to include driving conditions in its calculations, ATC registers curves and both uphill and downhill grades. For example, if you maintain speed through a curve, the transmission does not shift up. On uphill grades, it shifts up only when the engine speed increases in order to make more efficient use of power reserves. On downhill grades, ATC shifts down when the speed of the vehicle increases and the driver must apply the brakes.

On vehicles with automatic transmission, the Adaptive Transmission Control (ATC) uses a number of factors to calculate the most efficient gear. In this process, it considers your individual driving style as well as current driving conditions.

ATC recognizes your personal driving style from the positions and movements of the accelerator pedal, deceleration when braking, and lateral acceleration through curves. Based on different shift characteristics – from comfort-oriented to performance-oriented – ATC will select the appropriate gear.



Deceleration sensors continuously monitor the acceleration forces acting upon the vehicle. If, as the result of a frontal collision, a deceleration is reached at which the protection of the safety belts alone is no longer adequate, the gas generators of the driver and passenger-front airbags are ignited. However, the passenger-side airbag is only triggered if an additional sensor has recognized that the passenger seat is occupied.

In the event of a side collision, the side airbags in the front and/or rear* are triggered if necessary.

The airbags located under the marked covers inflate and unfold in a matter of a few milliseconds. In this process, they tear through the designed separation points of the upholstered covers or press them out.

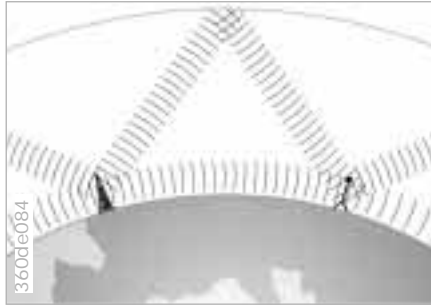
Because the inflation process must be virtually instantaneous, it is accompanied by a certain amount of ignition and inflation noise, which will be drowned out by the noise from the accident itself. The gas required to inflate the airbags is not dangerous, and the associated smoke then dissipates.

The entire process is completed within fractions of a second.

Highly sensitive sensors monitor the number of revolutions of the wheels. When equipped with DSC, they also monitor steering angle, lateral acceleration, brake pressure and the movement of the vehicle around its vertical axis.

If differences in the wheel speeds occur, ASC+T counteracts the danger of wheelspin by reducing engine torque; if necessary, ASC+T will also respond by applying the brakes to the rear wheels.

In addition, DSC permanently monitors the vehicle's current operating condition and compares it with an ideal condition that is calculated from the sensor's signals. If deviations from this occur (understeering or oversteering, for instance), DSC can stabilize the vehicle in fractions of a second by reducing engine output and with the assistance of braking intervention at individual wheels. Dangerous skids are thus prevented before they can even start, and all of this is possible, of course, only within physically possible limits. You may need some time to become accustomed to the system's intervention. However, it provides optimum drive force and vehicle stability. The braking intervention may be accompanied by sounds specific to the system.



The AM frequency bands (medium-wave, long-wave and short-wave) make it possible to receive stations from a great distance, because the broadcast signals travel not only along the ground as surface waves, but also as atmospheric waves that are reflected from the ionosphere.

Frequency modulation (FM) offers substantially better sound quality than the other frequencies. However, because FM transmissions rely on line-of-sight broadcast waves, their effective reception range is limited.

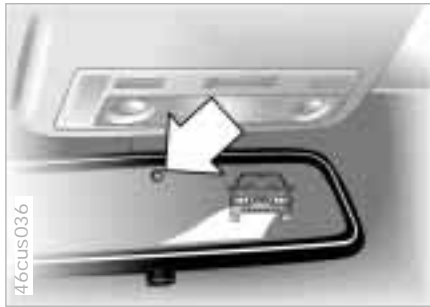
The limitations inherent to radio reception in a moving vehicle have been minimized by a number of innovative system designs:

The "Radio Data System" (RDS) makes sure that, for broadcast stations sending on several frequencies, the radio automatically tunes to the frequency with the best reception quality.

The Antenna Diversity system employs several FM antennas integrated within the rear window to provide three separate sources for receiving broadcast waves. An integral processor automatically selects the antenna with the best FM reception quality at any given time. The selection of the antenna takes place within milliseconds, and is therefore not noticed by the radio listener.



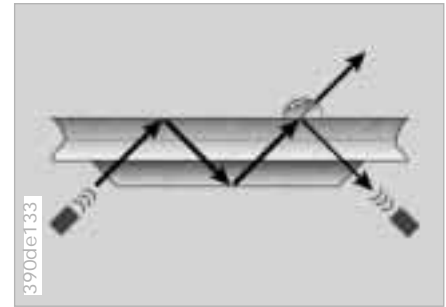
The safety belt tensioner makes sure that the belt tightens during a head-on collision to ensure that occupants remain firmly positioned in their seats. A gas-pressure system retracts the buckle assembly to tension the shoulder and lap belts within fractions of a second. This reduces the tendency to slide under the lap belt.



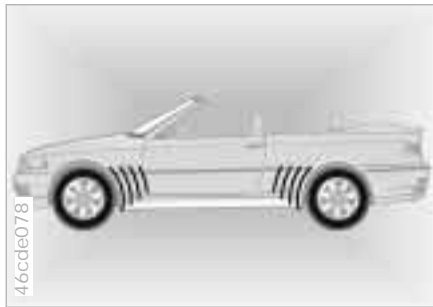
The semisolid reacts chemically to this electrical current, thus providing dimming of the mirror through an infinitely-variable range (electrochromic technology).

As a result, it is no longer necessary to dim the mirror manually, and the driver can concentrate completely on traffic conditions.

The interior rearview mirror with automatic dimming feature reduces blinding from following traffic by adapting the intensity of the reflected images to correspond to levels of light registered by the unit's sensors. The mirror reverts to its undimmed setting as soon as the light source disappears. One lamp sensor is mounted on the front of the mirror housing. This sensor, which is directed forward, measures light intensity in the area ahead of the vehicle. The second sensor is integrated within the mirror's glass. The electronic control system compares the light intensity from front and rear. The difference provides the basic parameter used to modulate an electrical current and induce chemical changes in a semisolid layer incorporated in the lens.



Depending on the degree of wetness on the windshield, the rain sensor controls the operation of the windshield wipers. Infrared light is carried along the surface of the windshield in an optical conductor in such a manner that it is reflected completely when the windshield is dry. The quantity of reflected light is measured. If there is moisture on the glass, the amount of light reflected is reduced since the infrared light at the surface of the windshield can escape. The quantity of reflected light is thus a means of gauging the degree of wetness on the windshield. When the system is set to the "Intermittent" wiper speed, the wipers react immediately – if water is splashed onto the windshield by vehicles traveling ahead of you, for example. As a result, the rain sensor provides a contribution to driving safety and comfort.



This system regularly checks tire pressure and monitors all four tires even while driving, so you do not have to.

Behind the valve stem in every wheel, there is an extended-life electronic chip that contains a pressure sensor, a transmitter and a battery. The pressure is measured in extremely short time intervals and then transmitted by a radio signal. If an irregularity is detected, the transmission rate is increased.

Located near each wheel and embedded in the vehicle body is an antenna that receives signals from the wheel. A central electronics system evaluates the quadruple signals and forwards any changes.

The RDC provides an important contribution to driving safety.

Self-diagnostics



All of the important electrical and electronic systems in the vehicle are tested regularly and automatically – the driver does not have to perform any extra operations or adjustments.

The indicator lamps come on briefly after the ignition has been turned on, for example.

While you are driving, the functional status of the actuator motors (for the windshield wipers, power windows, seats, etc.) is constantly being analyzed by electrical measurements in the relays.

In the same manner, the electrical resistance of the airbag ignition generators and all of the remaining airbag components is measured at all times. Any fault in this system would be detected immediately by a current fluctuation that

would necessarily accompany it. The fault would be indicated immediately by the airbag warning lamp.

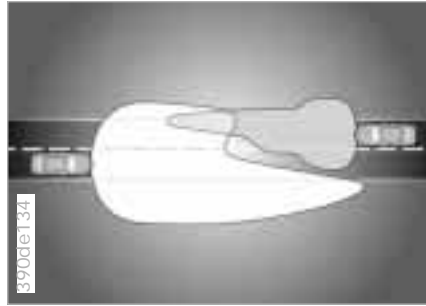
Even after you shut off the engine, the overall functional status of your vehicle is monitored. For example, all of the flaps of the heating and ventilation system travel to the nearest limit position. This action ensures that the system will be able to provide defrosting, regardless of other circumstances, e.g. if a malfunction in the air conditioner/automatic climate control system* should occur during the night while the vehicle is parked.

A calibration cycle runs every tenth time the engine is shut off. During this cycle, the actuator motors of all the heating and ventilation flaps travel to their limit stops in both directions. The limit positions and the return travel paths are checked in this manner in order to ensure that appropriate adjustments for the operating elements can be made at any time.

You will hear the sounds of the air flaps as the air conditioner/automatic climate control* carries out its self-diagnostic functions after the ignition has been shut off. All of the other self-diagnostics functions operate silently in the background.

Any possible faults detected during these self-diagnostics can be read out and corrected by your BMW center during the next regularly scheduled maintenance.

The rollover protection system offers additional protection to the airbags and the safety belts. It uses highly sensitive sensors that respond immediately to any unstable vehicle condition encountered while driving, e.g. a steep angle or loss of wheel contact with the ground. The protective bar in the rear headrests would be triggered in this type of situation.



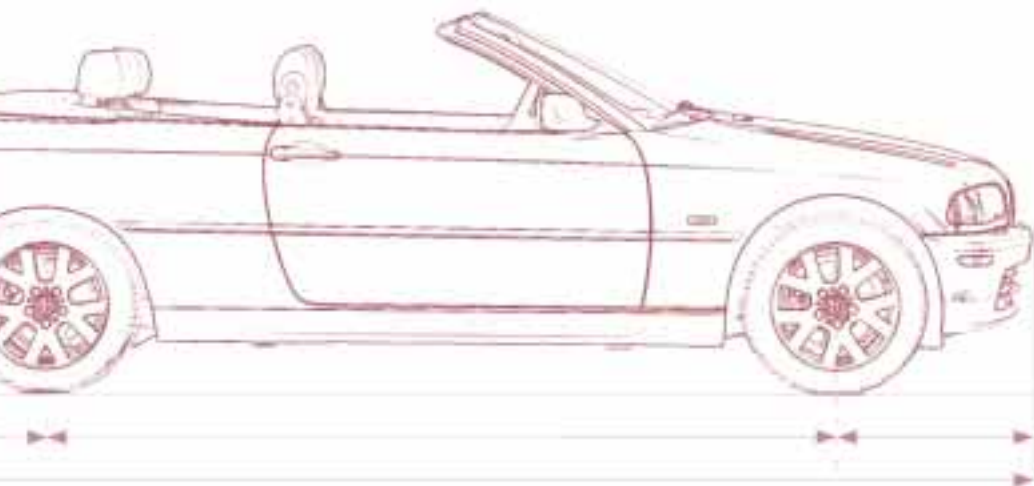
The xenon lamp provides forward illumination with significantly more brightness and uniformity than the traditional halogen lamp.

In a xenon lamp, an electric arc replaces the filament in order to generate intense illumination. A gas mixture in a quartz glass tube with metal vapor is ignited by a high electric voltage. The arc that is generated is then sustained by a lower voltage. When the lamp is turned on, there is a brief warm-up period. Maximum brightness is attained in approx. 15 seconds.

Xenon lamps provide significantly improved visibility, especially during adverse weather conditions and difficult driving situations (e.g. driving at night in heavy rain or through road repair areas where there are no lane markers).

Vehicles with xenon lamps are equipped with an automatic headlamp range control. As a result, the lane ahead of you is always optimally lighted, even under varying load conditions, and drivers in oncoming traffic are not blinded.

Xenon lamps make a significant contribution to highway safety since other highway users, bicyclists and motorcyclists in the right lane, and pedestrians are more easily detected.



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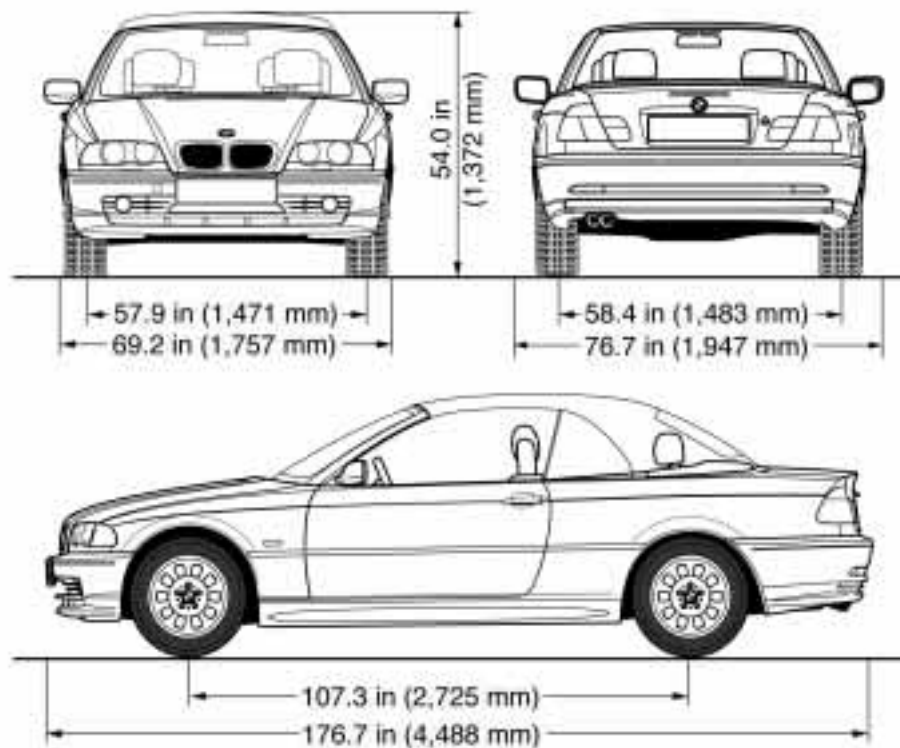
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196 **Engine data**

		BMW 325Ci	BMW 330Ci
Displacement	cu in (cm³)	152.2 (2,494)	181.8 (2,979)
Number of cylinders		6	6
Maximum output at engine speed	hp rpm	184 (135) 6,000	225 (165) 5,900
Maximum torque at engine speed	lb-ft (Nm) rpm	175 (237) 3,500	214 (290) 3,500
Compression ratio	ε	10.5	10.2
Stroke	in (mm)	2.95 (75)	3.53 (89.6)
Bore	in (mm)	3.31 (84)	3.31 (84)
Fuel-injection system		Digital-electronic engine-management system	



Minimum turning circle dia.: 34.4 feet (10.5 m)

		BMW 325Ci	BMW 330Ci
Curb weight (with one person, ready for operation, full tank of fuel, options not included)			
with manual transmission	lbs. (kg)	3,560 (1,615)	3,627 (1,645)
with automatic transmission	lbs. (kg)	3,627 (1,645)	3,704 (1,680)
Approved gross vehicle weight			
with manual transmission	lbs. (kg)	4,442 (2,015)	4,508 (2,045)
with automatic transmission	lbs. (kg)	4,509 (2,045)	4,586 (2,080)
Approved front axle weight	lbs. (kg)	2,072 (940)	2,094 (950)
Approved rear axle weight	lbs. (kg)	2,546 (1,155)	2,602 (1,180)
Approved roof weight for the hardtop	lbs. (kg)	165 (75)	165 (75)
Luggage compartment capacity	cu ft (l)	9.2 (260)	9.2 (260)
with the convertible top compartment raised	cu ft (l)	10.6 (300)	10.6 (300)

Approved axle loads and approved gross vehicle weight may not be exceeded.

			Notes
Fuel tank	gal. (liters)	approx. 16.6 (approx. 63)	Fuel specification: page 27
Reserve	gal. (liters)	approx. 2.1 (approx. 8)	
Windshield/headlamp washer system	quarts (liters)	approx. 5.6 (approx. 5.3)	Specifications: page 144
Cooling system including heater circuit	quarts (liters)	approx. 8.9 (approx. 8.4)	Specifications: page 147
Engine oil filter change	quarts (liters)	approx. 6.9 (approx. 6.5)	BMW High Performance Synthetic Oil Specifications: page 146
Manual and automatic transmission, transfer box and differential		–	Lifetime fluid, no fluid change required

Electrical system

Battery

12V, 80 Ah

Spark plugs

NGK BKR 6 EQUIP

Bosch FGR 7 DQP

Drive belts

Water pump – Generator –
Power steering

V-belt 6 PK x 1538

A/C compressor

V-belt 5 PK x 863



You can obtain Original BMW Parts and Accessories, as well as professional advice from your BMW center. ◀

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Refueling



So that you will have important specifications available when you stop to refuel, we recommend that you supplement this table with data which apply to your vehicle.

Fuel

Designation	Premium Unleaded Gasoline
AKI: minimum	91

Engine oil

Quality	
---------	--

The oil volume between the two marks on the oil dipstick corresponds to approx. 1.1 US quarts (1 liter).

Tire inflation pressures		Summer		Winter	
		Front	Rear	Front	Rear
2 persons					
4 persons plus luggage					

**We wish you an enjoyable
driving experience.**



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