Owner's Manual
for Vehicle

Contents

A-Z

M3

We are pleased you have decided on a BMW M3.

Thorough familiarity with your vehicle will provide you with enhanced control and security when you drive it. Therefore, we have one request:

Read the information contained in this Owner's Manual before driving your new BMW M3 for the first time. It contains important information on vehicle operation that will enable you to make full use of the advanced technical equipment of your BMW M3. In addition, you will receive information on vehicle maintenance to ensure operating and traffic safety as well as the best possible value retention of your vehicle. For more detailed information refer to the supplemental manuals.

BMW M also makes decisive contributions toward greater safety in traffic through its BMW driver training.

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.

We wish you an enjoyable driving experience.

BMW M

Notes

About this Owner's Manual

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

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 an important part of the vehicle.

Order No. 01 41 0 157 628
US English VIII/03
Printed in Germany
Printed on environmentally friendly paper, bleached without chlorine, suitable for recycling.

Additional sources of information

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

You can find more information about BMW, for example on its technology, on the Internet at www.bmw.com.

Symbols used


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


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


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

◀ Marks the end of a specific item of information.

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


Vehicle Memory, Key Memory, refer to page 60. Identifies functions that can be specifically adapted for a particular key or vehicle. These settings can be performed either by yourself or by your BMW center.◀

Your individual vehicle

On purchasing your BMW, you have decided in favor of a model with individualized equipment and features. This Owner's Manual will describe all of the equipment that the BMW M3 has to offer you.

We hope you will understand that equipment and features are included that you might not have chosen for your vehicle. You can easily identify any differences with the aid of the asterisk * used to identify all optional equipment and accessories.

If your BMW features equipment such as a car radio or telephone, that is not described in this Owner's Manual, we have enclosed Supplementary Owner's Manuals. 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, the features described in this Owner's Manual could differ from those in your vehicle. Nor can errors and omissions be entirely ruled out. You are therefore asked to appreciate that no claims can be recognized on the basis of the data, illustrations or descriptions in this Owner's Manual.

For your own safety

Fuels

Use unleaded gasoline only. Fuels containing up to and including 10% ethanol or other oxygenates with up to 2.8% oxygen by weight – that is, 15% MTBE or 3% methanol plus an equivalent amount of co-solvent – will not void the applicable warranties respecting defects in materials or workmanship. Field experience has indicated significant differences in fuel quality – volatility, composition, additives, etc. 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.
Obey pertinent safety rules when you are handling gasoline.◀

Maintenance and repair

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

Parts and accessories

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 damages resulting from installation of parts and accessories not approved by BMW.
BMW cannot test every product made by other manufacturers to verify if it can be used on a BMW safely and without risk to either the vehicle, its operation, or its occupants.
Original BMW Parts, BMW Accessories and other products approved by BMW, together with professional advice on using these items, are available from all BMW centers.
Installation and operation of 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 transceiver equipment, such as a CB, walkie-talkie, ham radio or similar accessories, may cause extensive damage to the vehicle, compromise its safety, interfere with the vehicle's electrical system or affect the validity of the BMW Limited Warranty. Contact your BMW center for additional information. Do not use key or remote control to lock doors or luggage compartment with anyone inside the vehicle. Refer to the Owner's Manual for more details.◀

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.

Service and warranty

This manual is supplemented by a Service and Warranty Information Booklet for US models or a Warranty and Service Guide Booklet for Canadian models.

We recommend that you read this publication thoroughly.

Your BMW is covered by the following warranties:

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

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

Reporting safety defects

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

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration NHTSA in addition to notifying BMW of North America, LLC, P.O. Box 1227, Westwood, New Jersey 07675-1227, telephone toll-free 1-800-831-1117.

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

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 or 366-0123 in the 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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Controls and features

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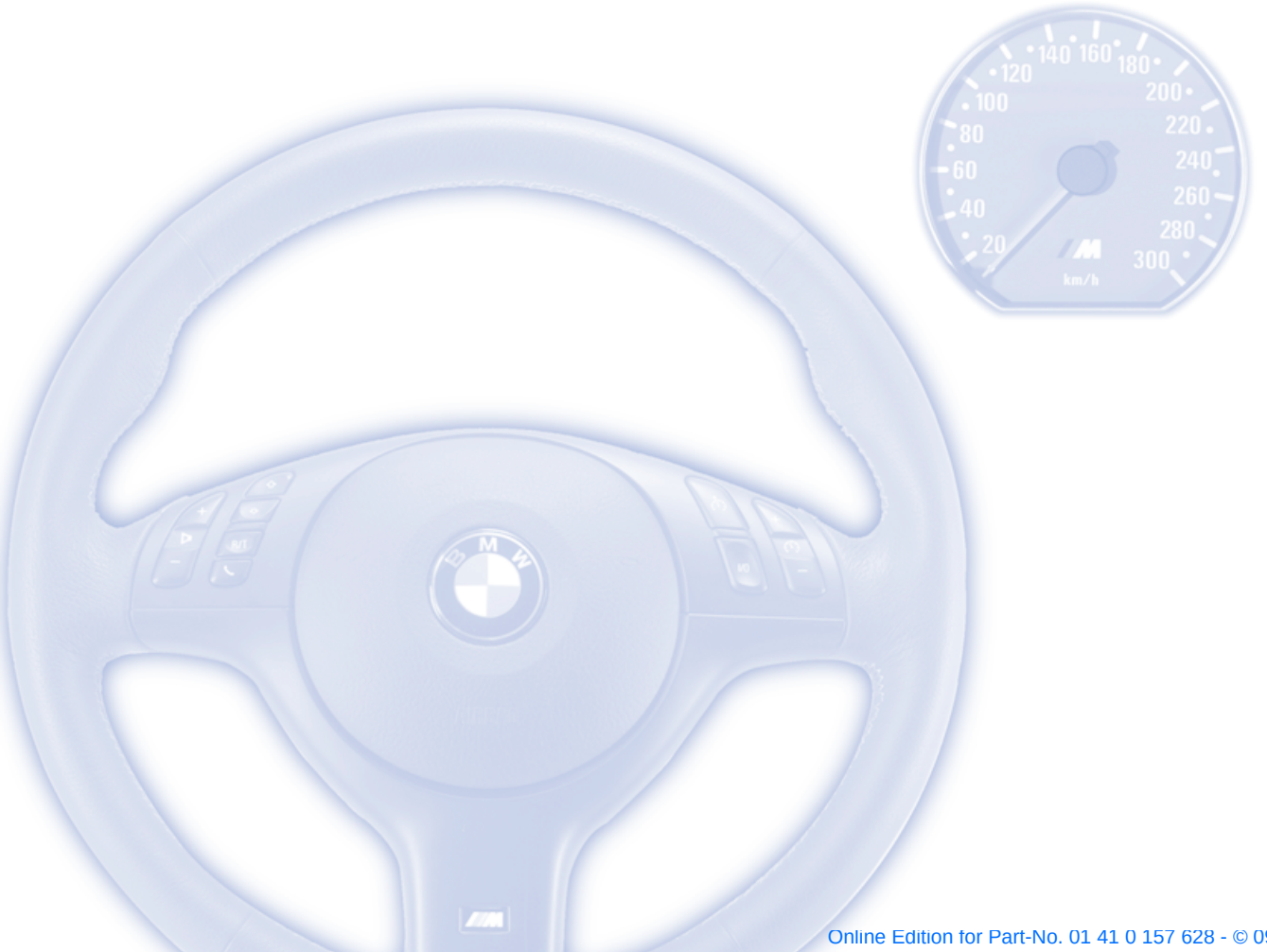
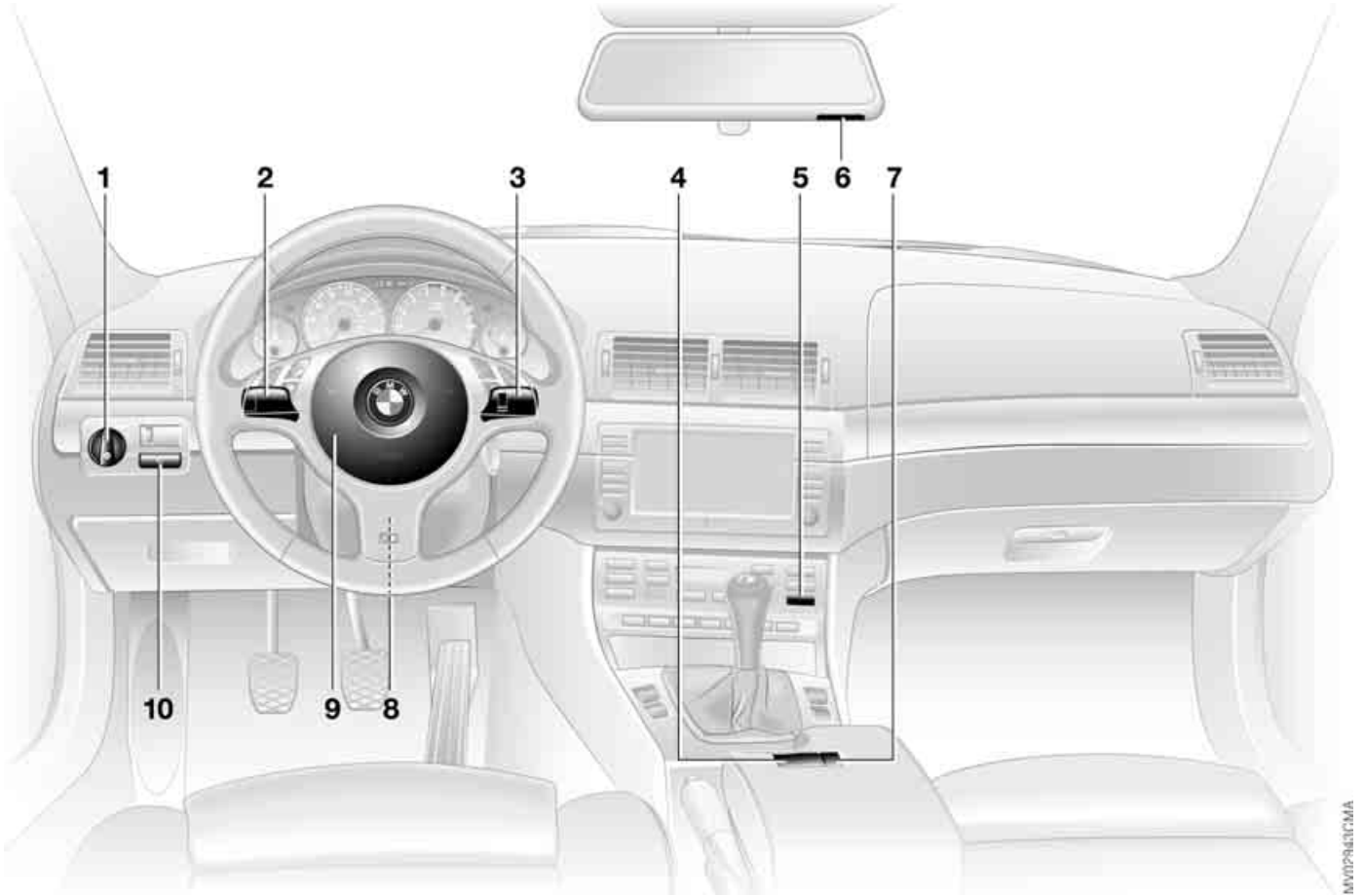


Overview



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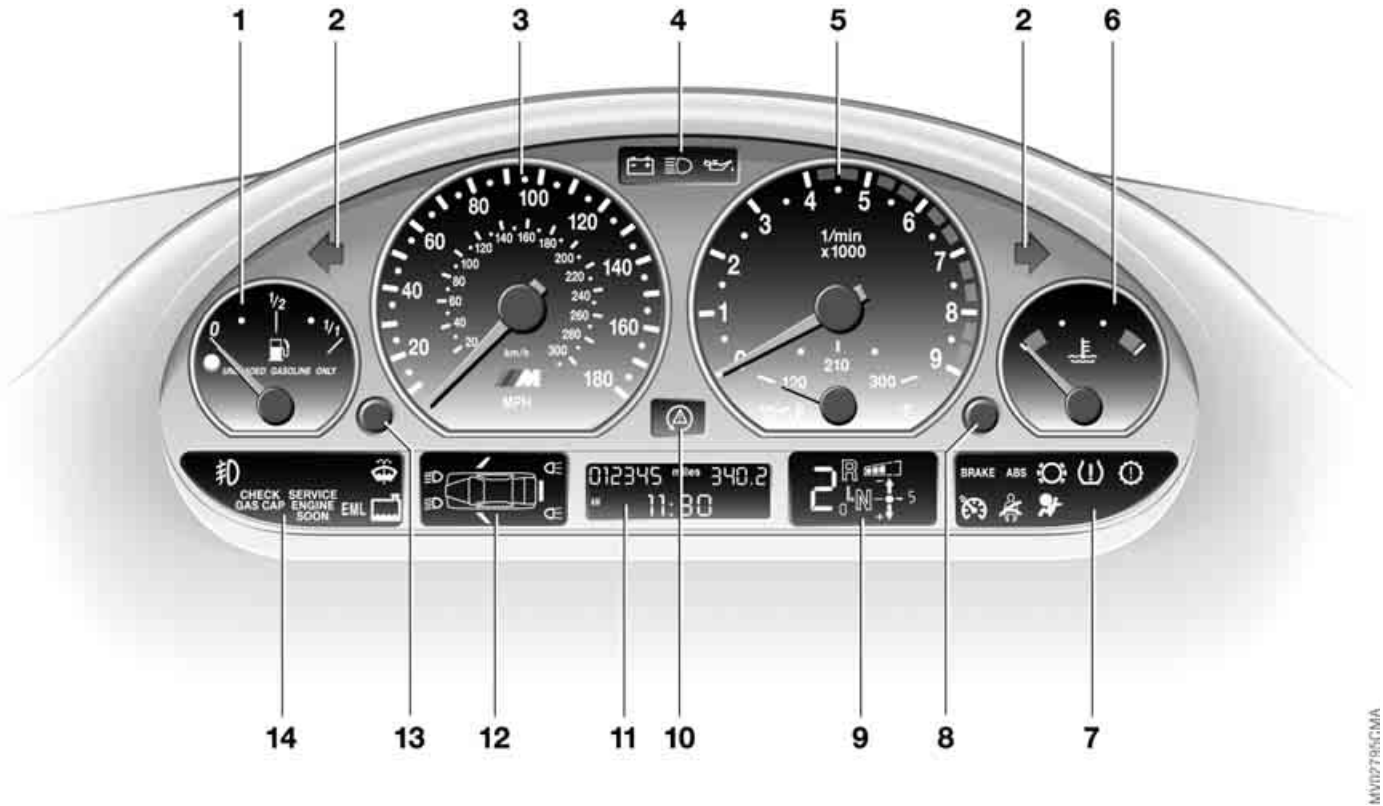

Instrument cluster

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Technology that monitors itself

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

If the drive belt is defective, stop and switch off the engine immediately to prevent overheating and serious engine damage. If the drive belt is defective, increased steering effort is also required.◀

Engine oil pressure ●
An alarm sounds at the same time. Stop vehicle immediately and switch off engine. Check the engine oil level and top up as required. If the oil level is correct: please contact the nearest BMW center.

Do not continue driving, as the engine could sustain serious damage from inadequate lubrication.◀

Flat Tire Monitor ●
In addition, an acoustic signal is sounded: there is a flat tire. Reduce speed and carefully come to a stop. Avoid sudden braking and steering maneuvers.
For additional information: refer to page 84

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 comply with the instructions on pages 112 and 125.

Brake warning lamp for Canadian models.

Red: an important reminder

Brake warning lamp ●
Comes on when the parking brake is engaged – an additional acoustic signal sounds when starting off. For additional information: refer to page 65

Brake warning lamp for Canadian models.

Please fasten safety belts ●
Comes on together with an acoustic signal until the safety belts are fastened.
For additional information on safety belts: refer to page 47

Airbags ●
Please have the system inspected at your BMW center.
For additional information: refer to page 53

Red and yellow: continue driving cautiously

The brake warning lamp lights up together with the yellow indicator lamps for ABS ● and DSC:
The entire ABS, CBC and DSC control system has failed. Continue to drive; drive cautiously and defensively and avoid full brake applications. Please have the system checked by your BMW center as soon as possible.
For additional information: refer to pages 83, 112

ABS, CBC and DSC indicator and warning lamps for Canadian models.

Orange: consult the nearest BMW center

Sequential M gearbox with Drivelogic
If the indicator lamp fails to go out after the engine has been started, or if it comes on during normal driving: this indicates a malfunction in the system. Please consult the nearest BMW center.
Indicator lamp flashes: a system overload has occurred.
For additional information: refer to page 71

Yellow: check as soon as possible

Engine oil level
Comes on while driving and is accompanied by an alarm: the engine oil level has fallen to the absolute minimum; refill as soon as possible. Do not drive more than 30 miles/50 km before refilling.
For additional information: refer to page 122

Engine oil level
Comes on after the engine has been shut off and is accompanied by an alarm: add engine oil at your earliest opportunity, such as when you stop to refuel.
For additional information: refer to page 122

Brake pads ●
Have the brake pads checked.
For additional information: refer to page 112

Flat Tire Monitor ●
The Flat Tire Monitor has been deactivated, either at the button or in response to a system malfunction. In the event of a malfunction, have the system checked by your BMW center.
For additional information: refer to page 84

Dynamic Stability Control (DSC)
The indicator lamp flashes and an acoustic signal sounds: the system is active and governs drive and braking force.
If the indicator lamp fails to go out after the engine has been started, or if it comes on during normal driving and stays on:
DSC has been deactivated, either at the button or in response to a system malfunction.
In the event of a malfunction, have the system checked by your nearest BMW center.
For additional information: refer to page 83

Dynamic Brake Control (DBC)
Malfunction in DBC system.
Conventional braking efficiency is available and unrestricted.
Have the system checked and repaired at your BMW center as soon as possible.
For additional information: refer to page 112

Dynamic Brake Control (DBC) warning lamp for Canadian models.

Add washer fluid
The washer fluid is too low. Top off the fluid at the earliest opportunity.
For additional information: refer to page 122

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 checked by your BMW center at the earliest possible opportunity.
For additional information: refer to page 128

Service Engine Soon indicator lamp for Canadian models.

Engine electronics
There is a fault in the electronic engine-management system.
You can continue to drive with reduced engine output or engine speed. Please have the system inspected at your BMW center.

Add coolant
Coolant level too low, top up as soon as possible.
For additional information: refer to page 124

CHECK GAS CAP*
This indicator lamp comes on when the gas cap is loose or missing.
Close the gas cap tightly: refer to page 24

Green: for your information

Turn signal indicator
Flashes when turn signals are on. Rapid flashing: indicates a system malfunction.
For additional information: refer to page 72

Cruise control
Lights up when the cruise control is activated. Ready for operation via the buttons in the steering wheel.
For additional information: refer to page 74

Front fog lamps
Lights up whenever the fog lamps are on.
For additional information: refer to page 90

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 72, 89

Buttons in steering wheel

These buttons let you operate the following functions quickly and without being distracted from traffic conditions:

▷ Selected radio functions
▷ The cruise control
▷ Selected telephone functions*
▷ The voice recognition system*.

The controls are active only when the corresponding systems and accessories are switched on.◀

Press briefly:

Accept incoming call, start dialing, terminate call.

Extended pressure:

Activate and deactivate voice entry.

Switch between phone, radio, cassette and CD.

Forward

▷ Radio
Press briefly: next station in station memory
Extended pressure: station search
▷ CD
Press briefly: jump to next track
Extended pressure: search function in track
▷ Cassette
Press briefly: jump to next track or stop fast forward
Extended pressure: fast forward
▷ Phone
Scan personal phone book.

Rewind: same functions as forward.

Volume.

Cruise control: select a stored setting.

Cruise control: store and accelerate + or decelerate and store –.

Cruise control: activate/interrupt/deactivate.

Hazard warning triangle*

The hazard warning triangle is stored in a storage case on the left side of the luggage compartment.

Always observe all legal regulations requiring a warning triangle to be carried in the vehicle.◀

First-aid kit*

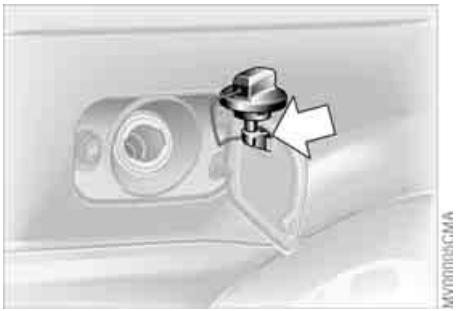
The first-aid kit is located under the front passenger's seat.

To open: pull the handle and fold the cover down.

To fasten: fold the cover up and press it until the tab engages.

Several of the items contained in the first-aid kit have a limited service life. For this reason, check the expiration dates of each of the items regularly, and replace any with passed dates. You can acquire replacements in any drugstore or pharmacy.
Always observe all legal regulations requiring a first-aid kit to be carried in the vehicle.◀

When handling fuels, comply with all of the applicable safety precautions posted at the service station. 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.◀



Fuel filler door

Always switch off the engine before refueling, as it is not possible to add fuel with the engine running, and attempts may also trigger the SERVICE ENGINE SOON lamp.◀

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

If an electrical malfunction occurs, you can unlock the fuel filler door manually:

Pull the knob with the fuel pump symbol on the right trim panel of the luggage compartment.

Simple and environmentally friendly

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

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

When refueling, insert the filler nozzle completely into the filler pipe. Lifting the nozzle 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 when the filler nozzle shuts off the first time.

Refueling

Close the gas 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 CHECK GAS CAP* lamp.◀

Fuel tank capacity

▷ Approx. 16.6 gal./63 liters, of which
▷ approx. 2.1 gal./8 liters are reserve capacity.

Do not drive to the last drop of fuel. This can prevent the engine from operating properly and result in damage.◀

Fuel specifications

Use unleaded gasoline

The engine uses lead-free gasoline only.

Required fuel:

▷ Premium Unleaded Gasoline, min. 91 AKI
AKI = Anti Knock Index

Never use leaded fuel, as it would cause permanent and irreversible damage to the oxygen sensor and the catalytic converter.◀

Tire inflation pressure

Checking tire pressures

Tire pressures in psi/kilopascal are shown on the driver's door post and are visible when the door is open.

Only check the tire inflation pressures of cold tires. This means after driving a maximum of 1.25 miles/2 km or after the vehicle has been parked for at least 2 hours. Warm tires have higher inflation pressures.

In the following tire inflation pressure table, all pressures are specified in the standard units of pressure, psi and kilopascal, and apply to cold tires, i.e. tires at ambient temperature.

After correcting the tire inflation pressure, reinitialize the Flat Tire Monitor so that it can monitor the tire inflation pressure, refer to page 84.

Tire inflation pressure

Check the tire pressures on a regular basis – at least twice a month – and before every extended journey. If this is not done, incorrect tire pressures can cause driving instability and tire damage, ultimately resulting in accidents.◀

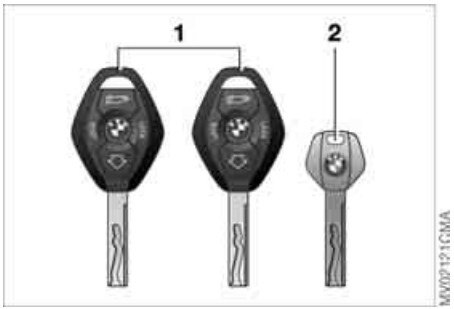
Comply with tire approval specifications

The inflation pressures in the table apply to BMW-approved tire sizes and tire manufacturers. Your BMW center will be glad to supply this information. Other pressures may be required for tires made by other manufacturers.

Your vehicle is equipped with tires which not only meet US standards, but also European standards. We recommend the exclusive use of BMW approved tires.

Tire inflation pressure

BMW	Tires All pressure specifications in the table are indicated in psi/ kilopascal with cold tires – cold = ambient temperature				
	225/45 ZR 18	33/230	–	41/280	–
	255/40 ZR 18	–	35/240	–	48/330
M3	225/45 ZR 18 225/40 ZR 19	33/230	–	41/280	–
	255/35 ZR 19	–	35/240	–	48/330
	225/45 R 17 91 H M+S	33/230	38/260	36/250	46/320
	225/40 R 18 92 V M+S	36/250	38/260	39/270	51/350



The key set

1 Master keys with remote control unit – these keys determine the functions of the Key Memory, refer to page 60.
You can mark the individual keys for subsequent identification by applying the colored decals that you received when accepting delivery of your vehicle

In every master key with the remote control feature there is an extended-life battery that is charged automatically in the ignition lock as you drive.
For this reason, if you have master keys with the remote control feature that are not being used otherwise, use those keys at least once a year while driving for an extended period to charge the battery.◀

2 Spare key – for storage in a safe place, such as in your wallet. This key is not intended for constant use. The luggage compartment lid and the glove compartment cannot be locked and unlocked with this key. This is useful for valet parking, for example.

Central locking system

The concept

The central locking system engages and releases the locks on the:

▷ doors
▷ luggage compartment lid
▷ fuel filler door.

The central locking system is ready for operation whenever the driver's door is closed.

The central locking system can be operated

▷ from outside via the door lock and using the remote control
▷ from inside via the central locking system button.

If it is operated from inside, the fuel filler door will not be locked, refer to page 34.

When the system is actuated from the outside, the anti-theft system is also activated. This prevents the doors from being unlocked via the lock buttons or the release handle. The alarm system is also activated or deactivated.

If locked from inside, the central locking system unlocks the vehicle automatically in the event of an accident. In addition, the hazard warning flashers and interior lamps come on.

The concept

The remote control also provides two additional functions beyond the central locking feature:

- ▷ Switch on the interior lamps, refer to page 32.
  With this function you can also search for your vehicle – when parked in an underground garage, for instance
- ▷ Open the luggage compartment lid, refer to page 32.
  The luggage compartment lid will open slightly, regardless of whether it was locked or unlocked.

Whenever you unlock or lock the vehicle, you simultaneously deactivate/activate the anti-theft system, disarm/arm the alarm system and switch the interior lamps on/off.

You can have a signal set to confirm that the vehicle's locks have engaged securely.◀

Master keys with remote control

Since passengers or animals remaining in the vehicle might be able to lock the doors from the inside, always take the vehicle's keys with you so that the vehicle can be opened again from the outside at any time.◀

If it is no longer possible to lock the vehicle via the remote control, the battery is discharged. Use this key while driving for an extended period in order to recharge the battery. To prevent unauthorized use of the remote control, surrender only the spare key when leaving the vehicle for valet parking, for example.
In the event of a system malfunction, please contact your BMW center. You can also obtain replacement keys there.◀

1 Unlock, convenience opening mode, and disarm alarm system

2 Lock and secure, arm alarm system, activate interior lamps, disarm tilt alarm sensor and interior motion sensor

3 Open luggage compartment, Panic mode – trigger alarm

To release

Press button to unlock the driver's door only.

Press the button a second time to unlock all vehicle locks.◀

Convenience opening mode

Press and hold button. The windows and the glass sunroof open.

To lock and secure

Press button.

To switch on the interior lamps

After locking the vehicle, press button again.

To deactivate the tilt alarm* and interior motion sensors*

Press button a second time immediately after locking.

For additional information: page 39.

To open the luggage compartment lid

Press button.

The lid will open slightly, no matter whether it was locked or unlocked.

If the luggage compartment lid was locked, it will be locked again after it is reclosed.
Before and after a trip, be sure that the luggage compartment lid has not been opened unintentionally.◀

Panic mode – trigger alarm

By pressing button for more than 2 seconds, the alarm can be sounded in the event of danger, if it is armed.

To switch off the alarm

Press button.

External systems

Locally, external systems or devices may interfere with remote control functions.

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

For US owners only

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

FCC ID:

▷ X8EWS
▷ LX8FZVS
▷ LX8FZVE

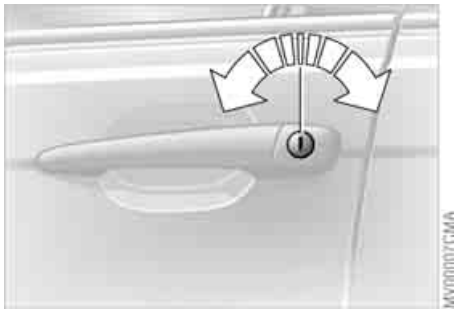
Compliance statement:

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

Opening and closing – via the door lock



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

You can have a signal set to confirm that the vehicle's locks have engaged securely.◀

Convenience operation

You can also operate the windows and the glass sunroof via the door lock.

▷ To open: with the door closed, hold the key in the Unlock position
▷ To fasten: with the door closed, hold the key in the Lock position.

Whenever closing the windows or sliding/tilt sunroof you should always monitor their path and progress to ensure that no one is injured. Releasing the key stops the operation.◀

Manual operation

In the event of electrical malfunction

Turn the key all the way to the left or right to unlock or lock the driver's door.

Opening and closing – from the inside

You can use this button to control the central locking system whenever the doors are closed. The doors and luggage compartment lid are unlocked or locked only. The anti-theft system is not activated.

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

If you desire, the central locking system can be activated automatically as soon as you begin to drive. You may also have this adjusted so that it is specific to keys.◀

To unlock and open the doors

1. Press the button for the central locking system
2. Pull the release handle above the armrest on the door you wish to open

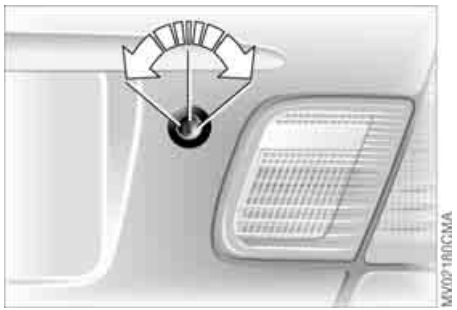
or

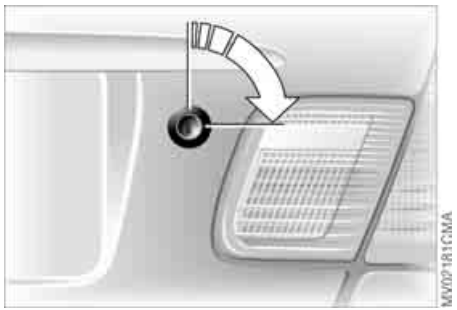
pull the release handle for any door twice: to unlock and open the door.

To lock

▷ Either use the central locking button to lock all doors at once or
▷ press the individual door lock buttons down. As an added design feature to prevent the driver from being inadvertently locked out of the vehicle, the driver's door lock button will not engage as long as the door is open.

Since passengers or animals remaining in the vehicle might be able to lock the doors from the inside, 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 fit in the lock for the luggage compartment lid, refer to page 30.

To secure separately

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

The luggage compartment lid is locked and disconnected from the central locking system. This feature can be used to prevent unauthorized access to the luggage compartment when you surrender the spare key only, refer to page 30. This can be advantageous for valet parking, for example.

To open from the outside

Press the button in the handle recess: the luggage compartment lid opens slightly.

The luggage compartment is lit when the luggage compartment lid is opened.

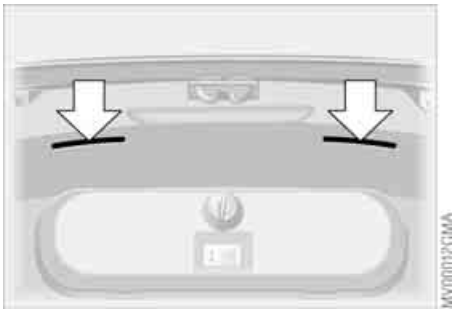
Manual operation

In the event of electrical malfunction

Turn the master key to the left as far as it will go. The luggage compartment lid will open slightly.

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

Luggage compartment lid



To open 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.

To close

The handle recesses in the interior trim panel of the luggage compartment lid 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, following the same precautions as with all closing procedures.◀

Operate the vehicle only when the luggage compartment lid is completely closed. Otherwise, exhaust fumes could penetrate the interior of the vehicle.◀

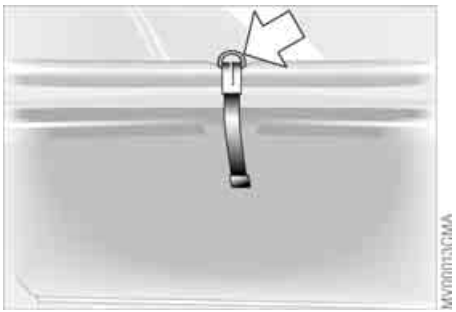
Nevertheless, should it be absolutely necessary to operate the vehicle with the luggage compartment lid open:

1. Close all windows and the glass sunroof
2. Greatly increase the quantity of air from the automatic climate control system, refer to page 94.

Luggage compartment lid

Emergency release

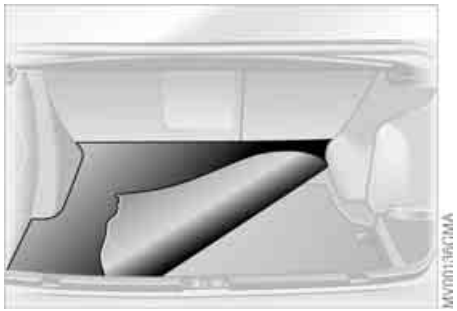
This lever releases the luggage compartment lid from the luggage compartment's interior.



To fold up and secure the floor panel

Lift the floor panel with the ring, then use the tab to suspend it from the weather-stripping on the drip rail.

Luggage compartment



Floor mat

You can turn the floor mat over to transport soiled objects, etc. The rubber-coated side can be washed and is designed to inhibit sliding.

The fittings at the corners of the luggage compartment provide you with a convenient means of attaching luggage compartment nets* and flexible straps for securing luggage.

Refer also to Cargo loading on page 104.

Alarm system*

The concept

The vehicle alarm system responds:

- When a door, the hood or the luggage compartment lid are opened
- To movement inside the vehicle – interior motion sensor
- To changes in vehicle tilt, e.g. as would occur while attempting to steal the wheels or tow the vehicle – tilt alarm sensor system
- To interruption of battery voltage.

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

- Sounding an acoustical alarm for 30 seconds
- Activating the hazard warning flashers for approx. five minutes
- Flashing the high beams on and off in rhythm with the hazard warning flashers.

To arm and disarm the alarm system

When the vehicle is locked or unlocked via the driver's door lock or with the remote control, the alarm system is also simultaneously armed or disarmed.

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

You can also open the luggage compartment lid when the system is armed by pressing the button of the remote control, refer to page 32. When it is closed, the lid is once again secured.

Extended pressure on the button sets off the alarm – Panic mode, refer to page 32.

Indicator lamp displays

- The indicator lamp below the interior rearview mirror flashes continuously: the system is armed
- The indicator lamp flashes when it is armed: the door(s), the hood or luggage compartment lid are not completely closed. Even if you do not close the alerted area, the remaining areas are deadlocked, and the indicator lamp flashes continuously after 10 seconds. However, the interior motion sensor is not activated
- If 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
- If 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 deactivated 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 train:

Lock the vehicle twice to arm the system. Press button on the remote control twice in succession or lock the vehicle twice with the key.

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.

You can have the tilt alarm sensor and the interior motion sensor permanently deactivated.◀

Interior motion sensor

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

Nevertheless, you should deactivate the interior motion sensor, refer to Avoiding unintentional alarms, if

- persons or animals are left in the vehicle
- the windows or the glass sunroof are being left open.

The tilt and interior motion sensors are inadvertently switched off when convenience closing of the windows is interrupted within the first 10 seconds and then started again. If this happens, they must be disarmed and reactivated.◀

To open and close windows

When leaving the vehicle, always remove the ignition key from the lock and remember to close the doors to prevent children from operating the power windows and injuring themselves, etc.◀

After the ignition has been switched off, you can still operate the power windows for up to 15 minutes as long as no one has opened and again closed any of the doors.

With the ignition key in position 1 or higher

▷ Press the switch until you feel resistance: the window retracts, or respectively the tilt-out window moves outward; it remains in motion for as long as you maintain pressure on the switch

▷ Press the switch briefly past the pressure point: the window moves automatically. Pressing the switch again stops the opening cycle.

You can close the windows in the same manner by pulling the switch. The swivel window does not close automatically.

For convenience operation via the remote control or the door lock, refer to page 33 or 32.

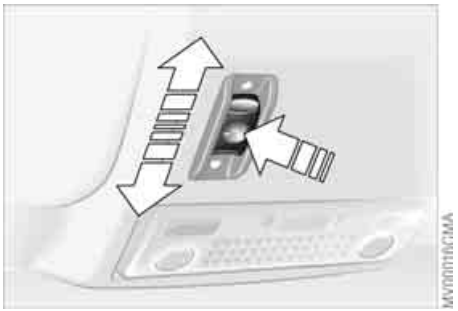
Safety feature

The windows are each equipped with contact strips located in the upper window frames. If pressure is exerted against this contact strip while a window is being raised, the system will respond by stopping the window and then retracting it a small distance.

Despite this safety feature, be extremely careful to ensure that the closing path of the window is not obstructed. Some types of objects – very thin objects, for instance, might fail to trigger the contact strip in some situations.
You can override this safety feature by pressing the switch beyond the resistance point and holding it.◀

Glass sunroof, electric*

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



Opening and closing

With the ignition key in position 1 or higher

▷ Slide the switch until you feel resistance: the sunroof opens and closes as long as you hold the switch
▷ Slide the switch past the pressure point: the sunroof moves automatically.
Tapping the switch again stops the motion immediately.

The headliner insert retracts with the glass sunroof while it is opening.

After the ignition has been switched off, you can still operate the sunroof for up to 15 minutes, as long as no one opens either of the doors.

For convenience closing via the door lock or the remote control, refer to pages 32 and 33.

Raising the glass sunroof

With the ignition key in position 1 or higher: tap the switch.

Tapping the switch again stops the motion immediately.

If you briefly press the switch in the raise direction while the glass sunroof is open, the sunroof will rise to its uppermost position.

After the ignition has been switched off, you can still operate the sunroof for up to 15 minutes, as long as no one opens either of the doors.

The headliner insert slides back somewhat when you raise the sunroof.

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

Safety feature

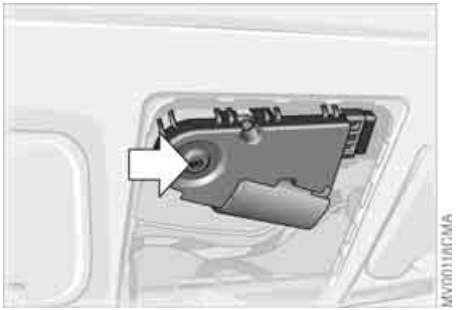
If the glass sunroof encounters resistance

▷ when it is closing from the raised position

▷ when it is closing from a point roughly past the middle of its travel,

the closing cycle is interrupted and the glass sunroof will open again slightly.

Despite this safety feature, be extremely careful that the travel path of the glass sunroof is not obstructed whenever it is closed. Remember that the safety mechanism may not be able to detect obstructions under all circumstances – with very thin objects, for instance.
You can override this safety feature by pressing the switch beyond the pressure point and holding it.◀



Manual operation

In the event of an electrical malfunction, you can also operate the glass sunroof manually.

1. Remove the interior lamp, then reach into the exposed opening and press out the cover
2. Use the Allen key from the onboard tool kit, refer to page 132, to turn the glass sunroof in the desired direction.

Safe seating position

For driving that is relaxed and less likely to cause fatigue, you should select a sitting position that reflects your personal requirements. In combination with the safety belts and airbags, the correct seating position also plays an important role in enhancing occupant safety in the event of an accident. To ensure that the vehicle's safety systems provide you with optimal protection, we request that you direct your careful attention to the following section.

For supplementary information on transporting children, refer to page 56.

Sitting safely with airbags

Always maintain an adequate distance between yourself and the airbags. Always hold the steering wheel by the rim to keep any chance of injury to hands or arms to an absolute minimum should the airbag be deployed. Never allow any objects, individuals or animals to obstruct the areas between passengers and airbags. Never use the front airbag's cover as a storage tray or support for objects of any kind. Never allow front passengers to rest their feet or legs on the airbag cover.◀

For airbag locations and additional information on airbags, refer to page 53.

Sitting safely with safety belts

Your vehicle offers five sitting positions, each of which is provided with a safety belt.

Never allow more than one person to wear a single safety belt. Never allow infants or small children to ride in a passenger's lap. Avoid twisting the belt while routing it firmly across the pelvis and shoulder, wear it as snugly against your body as possible. Do not allow the belt to rest against hard or fragile objects in your pockets. Do not route the belt across your neck, or run it across sharp edges. Be sure that the belt does not become caught or jammed. Avoid wearing bulky clothing and pull on the lap belt periodically to retension it over your shoulders. 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. Expectant mothers should always wear their safety belts, taking care to position the lap belt against the lower hips, where it will not exert pressure against the abdominal area. 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 information on using the safety belts, refer to page 47.

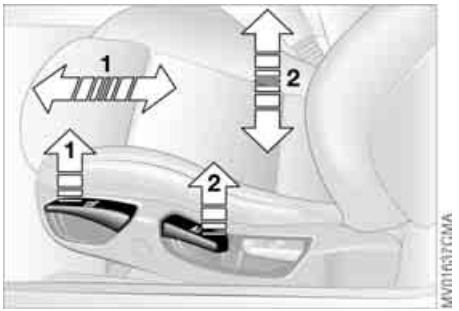
When adjusting your seat, always observe the following precautions

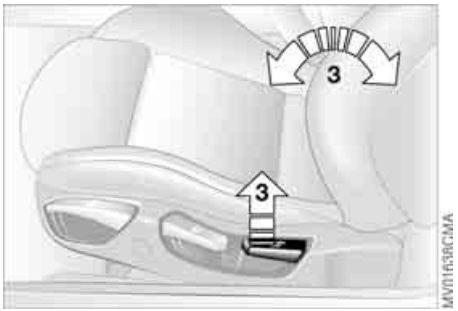
Never try to adjust your seat while operating the vehicle. The seat could respond with an unexpected movement, and the ensuing loss of vehicle control could lead to an accident. Never ride with the backrest reclined to an extreme angle. This is especially important for the front passenger to remember. If you do so, there is a risk that you will slide under the safety belt in an accident, thus reducing the protection provided by the safety belt.◀

Seat adjustment

▷ Manual seat adjustment, refer to page 44
▷ Power seat adjustment, refer to page 45
▷ Head restraint, refer to page 46.

Manual seat adjustment





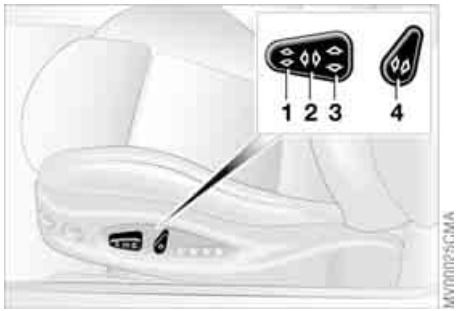
Seat adjustment

1 Forward/backward adjustment
Pull the lever and slide the seat to the desired position.
After you release the lever, move the seat forward or backward slightly so that it engages fully

2 Height
Pull the lever and apply weight to or remove weight from the seat as required

3 Backrest angle
Pull the lever and apply weight to or remove weight from the backrest as required

Power seat adjustment*



Seat adjustment

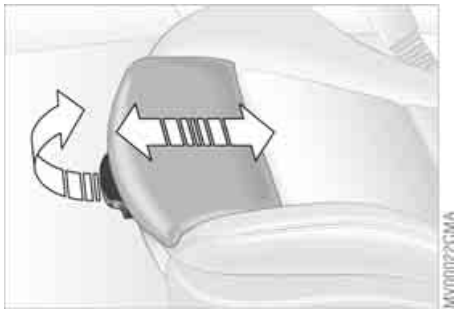
1 Tilt angle

2 Forward/backward adjustment

3 Height

4 Backrest angle

The head restraint and the thigh support are adjusted manually.



Thigh support

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

Adjusting the lumbar support*

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 position.

▷ Increase/decrease curvature: press front/rear of the switch

▷ Increase the upper/lower curvature: press the upper/lower end of the switch.

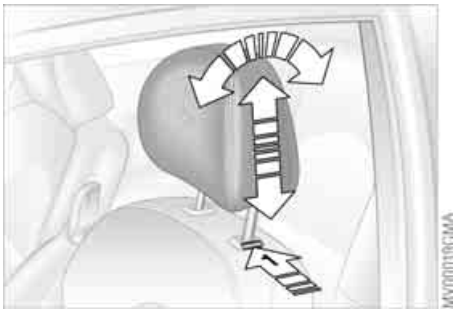
Power seat adjustment*

Adjusting the width of the backrest*

Use the controls found along the sides of the seat to adjust the width for the backrest. This way you can set the sides of the seat so that they conform to your body contours.

Increase/decrease backrest width: press front/rear of the switch.

Head restraints



Adjustments

Height: pull the head restraint up or push it down.

Press button to retract to the lowest position – see arrow 1.◀

Adjust the angle of the front head restraints by tilting them manually.

You can reduce the risk of spinal injury and whiplash by adjusting the head restraint to a height at which it is centered roughly at ear level.◀

Removal

1. Pull up the head restraint, continuing until it is at maximum extension

Head restraints

2. Press button 1 and remove the head restraint.

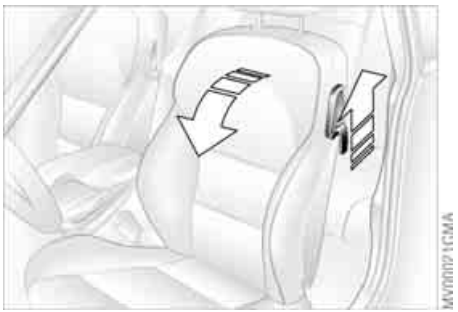
Installation – front

Press button 1 and slide the head restraint into the sockets.

Removal and installation – rear

Give the head restraint a sharp upward tug to release it from its locking mechanism. Press down forcefully to install.

Entering the rear



Unlocking backrests

Pull the lever upward and fold the backrest forward.

The outer levers hold the safety belt to enable it to be reached more easily.

Lock both backrests while driving, otherwise there is a danger of an unexpected movement causing an accident.◀

Safety belts

Always wear your safety belt

Always fasten your safety belt before starting off. As supplemental restraint devices, the airbags are designed to enhance the effectiveness of the safety belts, and not to replace them.

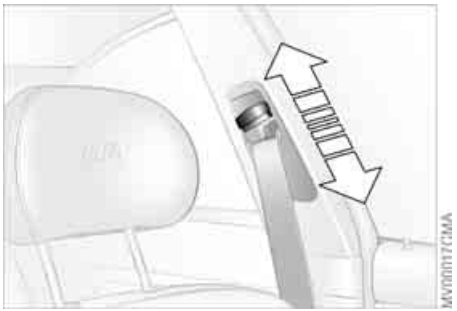
To close

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

To release

1. Press the red button in the belt buckle
2. Hold the belt
3. Guide the belt back into its reel.

In the rear, the belt buckle with the word CENTER is provided exclusively for the passenger sitting in the middle.◀



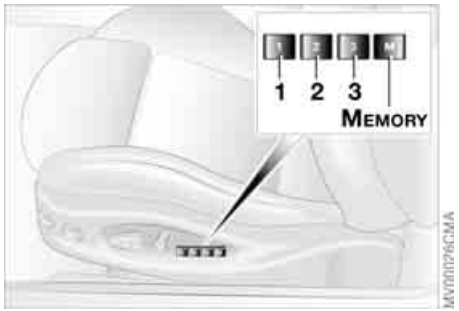
Adjusting safety belt height

Use the height adjustment mechanism to adapt the safety belt to the ideal position for your own body:

▷ Slide the button up or down.

Please refer to the seat adjustment instructions on page 43.

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.◀



You can store and recall three different driver's seat and outside mirror positions.

Memory will not retain the adjustments made to the lumbar supports or the width of the backrests.◀

To store

1. Ignition key in position 1 or 2
2. Adjust your seat and outside mirrors to the desired position
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

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.◀

Driver's door open after unlocking or ignition key in position 1:

▷ Briefly press memory button 1, 2 or 3, as desired.
Movement stops immediately when one of the seat-adjustment or memory buttons is activated during the adjustment process.

With the driver's door closed and the ignition key either removed or in position 0 or 2:

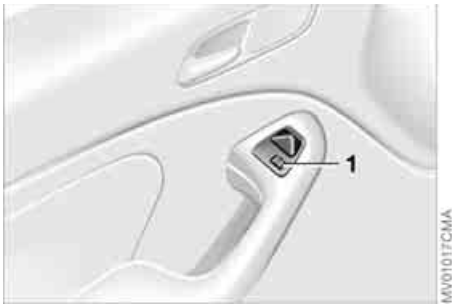
▷ Press and hold the desired memory button – 1, 2 or 3 – until the adjustment process is completed.

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

You can have this feature programmed so that when you use the remote control from your personalized key to unlock your door, your seat and the exterior mirrors will move into your own preferred positions.◀

Before activating the programmed adjustment feature, ensure that the footwell behind the driver's seat is empty and unobstructed. If you fail to do so, persons, animals or objects could be injured or damaged if the seat should move backward.◀

Seat and mirror memory*



Passenger-side exterior mirror tilt function

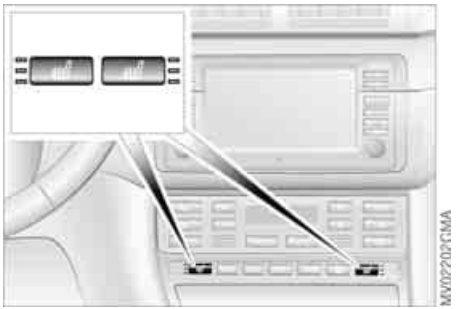
Automatic curb monitor*

1. Move mirror selector switch 1 to the driver's mirror position
2. When shifting into Reverse or placing the selector lever in position R, the passenger-side mirror tilts downward. This allows the driver to see the area directly adjacent to the vehicle during parking – curbs, etc.

How far the passenger mirror tilts can be set individually for each ignition key.◀

You can deactivate this automatic feature by setting the mirror selection switch to the passenger side position.

Seat heating*

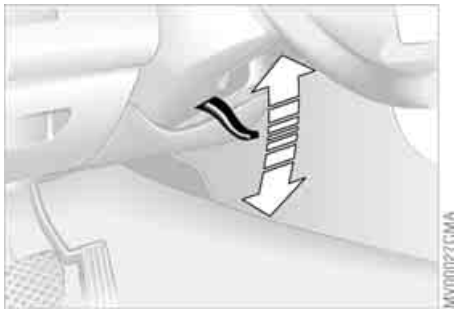


The seat cushion and backrest can be heated with the ignition key in position 2.

You can call up different heating modes by repeatedly pressing the buttons.

You can also switch the higher heating modes off directly:

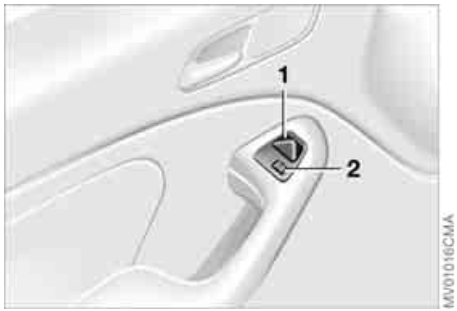
Press the button and hold it slightly longer.



To adjust

Never attempt to adjust the steering wheel while driving the vehicle – it could respond with unexpected movement, posing a potential accident hazard.◀

1. Push the locking lever downward
2. Adjust steering column reach and height for your selected seating position
3. Pull the lever back up.



To adjust exterior mirrors

1 Switch for 4-way adjustment

2 Selection switch for changing between mirrors

To adjust manually

The mirrors can also be adjusted manually:

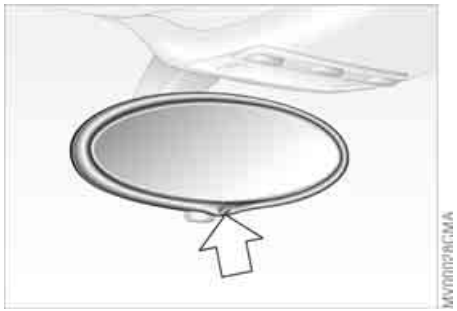
Press the edges of the lens.

To store the mirror settings, refer to Seat and mirror memory on page 49.

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

Electric defrosting

Both mirrors are heated automatically in ignition key position 2.

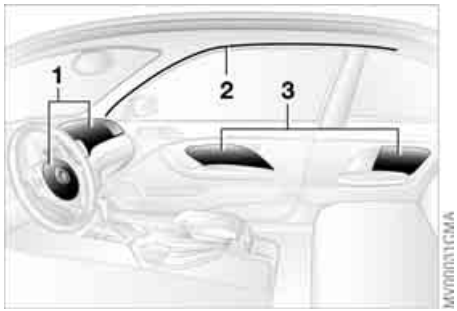


For the mirror to function perfectly, keep the photocells clean and the area between the inside rearview mirror and the windshield free of any obstruction like stickers, etc.

Interior rearview mirror with automatic dimming feature

This mirror automatically responds to ambient light and headlamp glare from following vehicles by dimming through an infinitely variable range and automatically reverts to its clear, undimmed setting whenever you shift into Reverse or move the selector lever into position R.

There are two photocells for automatic dimming. One photocell – see arrow – is positioned in the mirror's frame, while the other is slightly offset on the opposite side of the mirror.



1 Front airbags on the driver and passenger sides

2 Head airbags for driver and front passenger

3 Side airbags on the driver and passenger sides – front and rear*

Protective effect

The front airbags protect the driver and passenger in the event of a head-on collision where the protection provided by the safety belt alone would not be adequate. The head and side airbags help provide protection in the event of a collision from the side. The respective side airbag helps support the seat occupant's upper body.

For information on the correct sitting position, refer to page 43.

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

The airbags do not deploy in response to minor collisions, rear impacts and certain kinds of vehicle rollover.◀

Do not apply adhesive materials to the cover panels of the airbags, cover them or modify them in any other way. Do not attempt to remove the airbag restraint system from the vehicle. In the event of a malfunction, deactivation or triggered activation – as a response to an accident – of the airbag restraint system, consult your BMW center for inspection, repair or disassembly. Modifications may not be made on either the wiring or the individual components in the airbag system. These include the upholstered covers on the steering wheel, instrument panel, side trim panels of the doors and front roof pillars, and on the sides of the headliner. Do not attempt to remove or dismantle the steering wheel. 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. Do not touch the individual components directly after the system has been triggered, as otherwise there is a danger of burns.◀

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 side airbag, if so equipped. For example, a child – even though belted in – 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 provided, be deactivated if you plan to transport children in the rear seat.
The rear seat side airbags may already have been deactivated by a BMW center. 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 from airbag deployment in isolated instances.

In sensitive individuals, the ignition and inflation noise may induce a mild hearing loss that is temporary in most cases.

Airbag warning information is also provided on the sun visors.

This is the right way a child should sit in a child restraint when rear side airbags are provided.

This is the right way a larger child should sit wearing the seat belt when rear side airbags are provided.

Indicator lamp

The indicator lamp indicates the operational status of the airbag system when the ignition key is in position 1 or higher.

System operational:

▷ The indicator lamp comes on briefly when the ignition key is turned to position 1 or higher.

System malfunction:

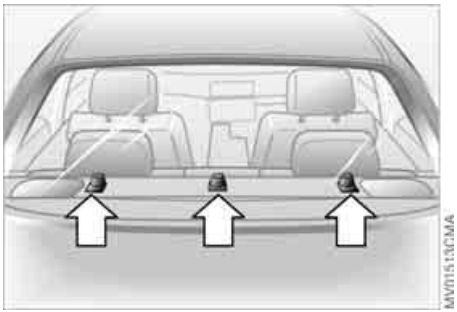
▷ Indicator lamp does not come on or
▷ indicator lamp lights up continuously.

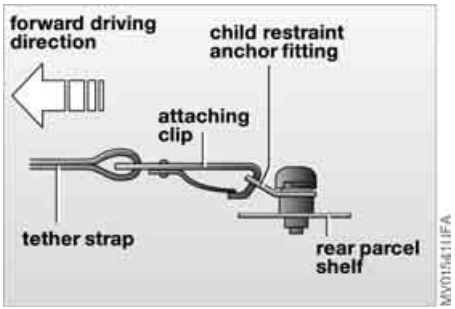
If there is a system malfunction, there is a risk that the airbags will not be triggered within their normal response range, even if the level of impact would normally have triggered them. Have your BMW center inspect the airbag system immediately.◀

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

Correct location for installing

In your BMW, all seats equipped with a three-point safety belt – except for the driver's seat – are suitable for installing universal child-restraint systems of all age classes and which have been approved for the age group in question.





Child-restraint system with tether strap

If you use a child-restraint system with a tether strap, three additional tether anchorage points have been provided.

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, as shown in the illustration.

If the respective seating position is fitted with a headrest lift the headrest and pass the tether strap between the headrest and the seat back.

It is recommended to readjust the head restraint in the lowest possible position.

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 rearward-facing child-restraint system – of the kind designed for infants under 1 year and 20 lbs/9 kg – would be within the airbag's deployment range, you should never mount such a device in the front passenger seat, since 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 instrument panel 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 after they have outgrown a booster seat that is appropriate for their age, height, and weight.
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 rearward-facing child-restraint system in the front passenger seat.
We strongly urge you to carefully read and comply with the instructions for installation and use provided by the child restraint's manufacturer whenever you use such a device.
Do not attempt to modify child-restraint systems. If you do this, the protection provided by these systems could be impaired.
Be sure 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.

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.

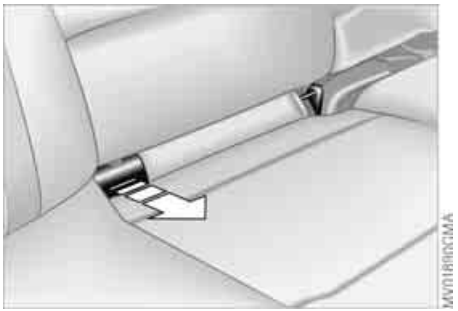
To lock the safety belt

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 observe the installation instructions provided by the manufacturer of the child-restraint system.

To unlock the safety belt

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



LATCH child-restraint mounting system

LATCH: Lower Anchors and Tether for CHildren

The left and right rear seats are both equipped with a LATCH child-restraint mounting system.

Canadian models only:

The LATCH anchorage points are identified by buttons.

Remove the cover from the outside anchorage by pulling forward. When reinstalling ensure that the recess is on the top.

With through-loading system: tilt the backrest halfway forward to make the cover easier to remove, refer to page 102.

Transporting children safely

The illustration is an example showing the anchorages for a LATCH child-restraint mounting system at the right rear seat.

Always follow all manufacturer's instructions and observe all safety precautions when installing the LATCH child-restraint system. Leave the rear safety belts in the holders, if they are not needed, to avoid unwanted movement from the safety belts at high speeds.◀

How the system functions

You have probably frequently wished that you could configure individual functions of your vehicles to reflect your own personal requirements. In engineering your vehicle, BMW has provided for a number of options for personal adjustment that can be programmed into your vehicle at your BMW center.

The available configuration data fall into two categories, according to whether their primary orientation is the vehicle – Vehicle Memory – or the individual – 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.

Distinguishing between keys

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 possibilities that the Vehicle and Key Memory systems offer:

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.◀

Examples for Vehicle Memory:

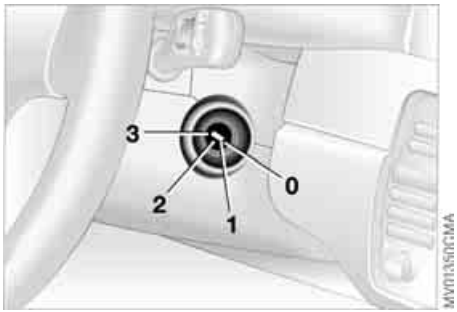
- Various signals that can serve as acknowledgment for locking and unlocking the vehicle, refer to page 31
- Activates/deactivates the 'Follow me home' lamps function, refer to page 88
- Activates/deactivates daytime driving lamps, refer to page 88
- Sets the units of measure for displaying time, outside temperature, distance traveled and fuel consumption in the instrument cluster
- When you shift into Reverse, an acoustic signal indicates that PDC has been activated, refer to page 82
- Switches on rear window defroster automatically, refer to page 95
- Activates/deactivates various alarm system functions, refer to page 39
- After giving an ice warning, the onboard computer display returns to the previous setting, refer to page 80.

Examples for Key Memory:

- Locks the vehicle automatically after you start off, refer to page 34
- Automatically moves the seat and outside mirror into position for the programmed driver when unlocking the vehicle, refer to page 49
- Automatic tilting of the passenger-side mirror, refer to Automatic curb monitor, page 50

▷ After the engine is started, calls up the last selected driving program for each shifting mode, refer to page 70.

Ignition lock



Ignition key positions

0 Steering locked

1 Steering unlocked

2 Ignition switched on

3 Starting engine

Steering locked

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

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

If the key is not removed, an acoustic signal is sounded after the driver's door has been opened.

Steering unlocked

You will find that it is often easier to turn the ignition key from position 0 to position 1 when you move the steering wheel slightly to help disengage the lock.

Individual electrical accessories are ready for operation.

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

Do not allow the engine to run in enclosed spaces. Otherwise, breathing the exhaust fumes can lead to unconsciousness and death. The exhaust gases contain carbon monoxide, an odorless and colorless, but highly toxic gas. Do not leave the vehicle unattended with the engine running. An unattended vehicle with a running engine represents a safety hazard.◀

If the engine does not start on the first attempt, such as when it is very hot or cold:

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

Cold starts at very low temperatures below about +5 °F/–15 °C and at high altitudes above 3,300 ft/1,000 m:

▷ On the first start attempt, it may be necessary to engage the starter for a longer period, but no longer than 20 seconds.

Extended starting attempts, characterized by excessively frequent or long periods with the starter engaged can damage the catalytic converter.◀

When driving, standing at idle or parking the vehicle, take care to avoid contact between the hot exhaust system and flammable materials – grass, hay, leaves, etc. Such contact could lead to a fire, resulting in serious personal injury and property damage.◀

Manual transmission

1. Engage the parking brake
2. Gearshift lever in idling position
3. Start the engine. Do not press the accelerator pedal. Do not actuate the starter for too short a time. Do not turn it for more than approx. 20 seconds. Release the ignition key immediately when the engine starts

Sequential M gearbox with Drivelogic

1. Depress footbrake
2. Move selector lever into position N
3. Start the engine. Do not actuate the starter for too short a time. Do not turn it for more than approx. 20 seconds. Release the ignition key immediately when the engine starts
4. Engage a driving position
5. Release footbrake and slowly depress accelerator pedal.

With the engine running, the gear indicator in the SMG Drivelogic display flashes to indicate that a driving position is engaged with the driver's door open or that the hood is not closed properly, refer to page 68.
If neither the pedals, the shift paddles, nor the selector lever are actuated, then the gearbox is automatically taken out of gear after approx. four seconds. It will then be necessary to move the selector lever back to position N before engaging the desired driving position. Driving off is not possible with the hood open.◀

Before exiting the vehicle with the engine running, move the selector lever into position N and apply the parking brake.
Never leave the vehicle unattended with the engine running. An unattended vehicle with a running engine represents a safety hazard.◀

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

You should never remove the ignition key when the vehicle is in motion, as the steering lock could engage.
When you leave the vehicle, always remove the ignition key and engage the steering lock.◀

Always engage the parking brake when parking on downhill roads. Engaging a gear may not sufficiently secure the vehicle against rolling.◀

Manual transmission

Turn the ignition key to position 1 or 0.

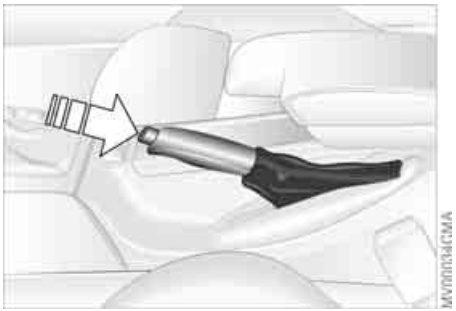
Sequential M gearbox with Drivelogic

If you turn the ignition key to position 1 or 0 with the selector lever in the forward or reverse position, a gear automatically remains engaged.

If you turn the ignition key to position 1 or 0 with the selector lever in position N, a warning tone and the flashing gear indicator in the SMG Drivelogic display remind you that no gear is engaged to secure the vehicle against rolling.

The warning stops after approx. 10 seconds. If you move the selector lever into a forward or reverse position during this time, a gear is automatically engaged.

Parking brake



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

To engage

The detent engages automatically, and the indicator lamp in the instrument cluster comes on when the ignition key is in position 2, refer to page 18.

To release

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

Parking brake

If exceptional circumstances make it necessary to engage the parking brake while the vehicle is in motion, do not pull it with excessive pressure. Keep your thumb pressed against the release button while carefully pulling the lever up.
Excessive pressure can lead to overbraking and loss of traction – fishtailing – at the rear axle.
The brake lamps do not come on when the parking brake is engaged.
Always engage the parking brake when parking on downhill roads. Engaging a gear may not sufficiently secure the vehicle against rolling.◀

To avoid corrosion and one-sided braking, apply the parking brake from time to time when coasting to a standstill – at a traffic light, for example – provided that it is safe to do so.◀

Manual transmission

When shifting gears in the 5th/6th gear plane, be sure to press the gearshift lever to the right in order to prevent inadvertent selection of a gear in the 3rd/4th gear plane. Do not hold the vehicle in place on slopes by slipping or 'riding' the clutch. Use the parking brake instead. Riding the clutch leads to severe and premature clutch wear.◀

Reverse

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

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

Sequential M gearbox with Drivelogic*

The concept

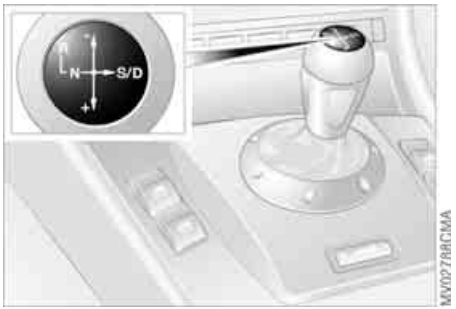
The sequential M gearbox with Drivelogic is an automated manual gearbox with which clutching and shifting is assumed by an electro-hydraulic system.

The SMG Drivelogic is operated via two shift paddles on the steering wheel and the selector lever in the center console.

It offers the following functions:

- Sequential and automated shifting mode
- Ability to choose between different driving programs – Drivelogic
- Gradient assistance, refer to page 70
- Upshift display and shift lights, refer to page 71
- RPM matching on downshifts
- Driving dependent functions:
  The respective driving situation, e.g. cornering, mountain driving or braking, is detected by sensors and taken into account for shifting, e.g. to achieve optimum gear selection during deceleration and subsequent acceleration
- Slip recognition at the rear axle for increasing driving stability, e.g. during downshifting on slippery road surfaces
- Operating safety through protection against misshifting.

Under normal operating conditions, fuel consumption is lowest when driving in the first driving program of the automated shifting mode.



Selector lever positions

R: Reverse position

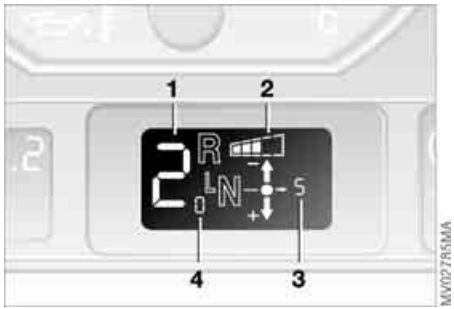
N: Neutral position

Forward position with one-touch mode:

- S: sequential mode
- D: automated mode
- +: upshifting in sequential mode
- –: downshifting in sequential mode.

The SMG Drivelogic is ready for operation from ignition key position two or higher.

For your safety, it is only possible to engage a driving position with the vehicle stopped approx. two seconds after engaging position 0 with the footbrake depressed – shift-lock function.



SMG display in instrument cluster

The selector lever position, currently engaged gear and selected driving program are displayed in the instrument cluster.

1 Engaged gear

2 Selected driving program, corresponds to the number of illuminated fields, refer to page 70

3 Tapping the selector lever to the right switches over into the displayed shift mode

4 D indicates that an automated shift mode is activated

R – Reverse position

Only engage with the vehicle stopped or at low speed, e.g. for rocking free in deep snow.

An intermittent signal tone indicates that the reverse position has been engaged.◀

N - Neutral

Always engage before starting the engine.

If the driving situation requires, e.g. when downshifting on slippery roads, the SMG Drivelogic automatically disengages and reengages the clutch, i.e. it is not necessary to manually engage position 0.

S – Sequential mode

In the sequential mode all forward gears are to be shifted by the driver.

To switch from automated to sequential mode:

▷ Tap the selector lever to the right toward 'S' or

▷ change gears with the selector lever or the shift paddles on the steering wheel.

You do not need to reduce the throttle for shifting.

Shifting gears with shift paddles on steering wheel:

- To upshift, briefly pull the right paddle +
- To downshift, briefly pull the left paddle –.

Shift paddles with various widths matched to the shape of your hand are available from your BMW center.◀

Shifting gears with selector lever:

- To upshift, pull the selector lever backward in the '+' direction
- To downshift, push the selector lever in the '–' direction.

No automatic upshifting is carried out in the sequential mode.

You accelerate from higher gears, e.g. during passing, by manually downshifting.

In the following situations the SMG Drivelogic in the sequential mode assists you:

- Upshifts and downshifts are only executed at appropriate combinations of engine rpm and vehicle speed. For instance, downshifts that would result in excessive engine speed are not executed
- During a stop the gearbox is automatically downshifted into the first gear so that, e.g. before a traffic light, it is only necessary to accelerate to continue driving
- As speed diminishes, the gearbox downshifts automatically, without you taking any action, just before the vehicle slows to below each gear's minimum speed.

D - Automated mode

Each time the engine is started, the automated mode is activated as soon as you move the selector lever into the forward driving position.

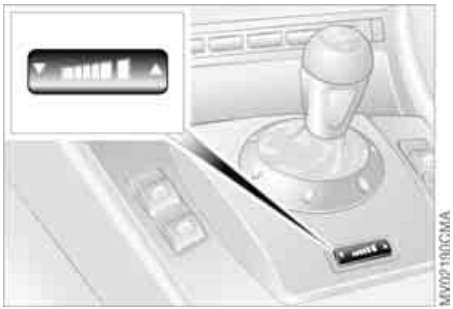
In the automated mode all forward gears are shifted automatically.

To switch from sequential to automated mode: tap the selector lever to the right toward 'D'. Watch the display in the instrument cluster, refer to page 68.

For rapid acceleration, e.g. during passing, depress the accelerator pedal completely – kickdown. The gearbox now downshifts depending on the selected driving program.

Even in the automated mode, you can help specify the shifting point: if a gear-dependent minimum speed is exceeded, you can upshift by slowly reducing pressure on the accelerator pedal. In the process, the respective driving situation is detected by sensors and taken into account.

Sequential M gearbox with Drivelogic*



Drivelogic

Drivelogic makes various driving programs available to you.

Press the Drivelogic repeatedly until the desired driving program is shown in the SMG display of the instrument cluster, refer to page 68.

In the automated mode you can select from five driving programs ranging from convenience mode/winter operation to sporty and highly dynamic.

In the first automated driving program, starting off takes place in second gear, which is advisable under winter road conditions with ice and snow.

In the sequential mode you can choose from six driving programs ranging from balanced, dynamic driving – 1 – to sporty, puristic driving – 6. The sporty, puristic driving program can only be activated with the Dynamic Stability Control (DSC) deactivated, refer to page 83.

To maintain vehicle stability, always drive with the DSC activated on whenever possible.◀

Following each change between the sequential and the automated mode, the last driving program selected in the respective mode is active. Exception: instead of the last selected sequential driving program 6, program 5 is activated only after the engine has been started again.

Your vehicle is set so that when the engine is started, the last selected driving program saved in your key is activated for each shifting mode.◀

Gradient assistance

The gradient assistance enables starting off on grades with virtually no rollback. It can be activated in the sequential and automated mode with the vehicle stopped and can be used for both forward and reverse driving.

The vehicle may roll slightly before it is held by the gradient assistance after releasing the footbrake. Two seconds after the footbrake is released, the vehicle begins to roll, as it is no longer held with the gradient assistance.◀

1. Depress footbrake with vehicle stopped
2. Activate the gradient assistance by pulling the left paddle for at least 0.5 seconds. An increase in the engine speed indicates that the gradient assistance is activated

Briefly pulling the left paddle again deactivates the gradient assistance again.◀

3. Release the footbrake and start off within 2 seconds.

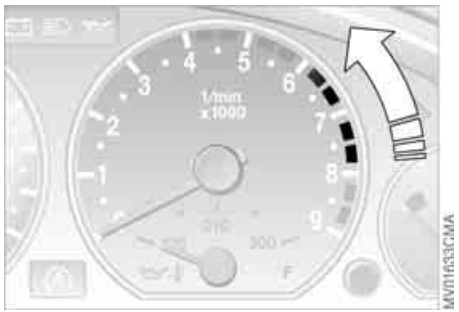
The gradient assistance must be reactivated before each use.

Indicator lamp

The gearbox indicator lamp in the instrument cluster goes out after the engine is started.

▷ If it does not go out, or if it lights up during driving, a malfunction has occurred. The available functions may be limited under certain circumstances.
Drive carefully and with the Dynamic Stability Control (DSC) activated. Have the system checked by the nearest BMW center

▷ If the indicator lamp flashes while driving, the system is overloaded. Avoid high loads until the indicator lamp goes out again permanently.



Shift lights

To achieve the best possible vehicle acceleration with a sporty driving style in the sequential mode, shift lights in the instrument cluster indicate the optimum shifting point shortly before the maximum engine speed is reached.

1. When the maximum engine speed is approached, yellow indicator fields – shift lights – in the tachometer light up consecutively to indicate the approaching upshift time
2. Shift at the latest when the last indicator field lights up red.

Tire replacement, snow chains

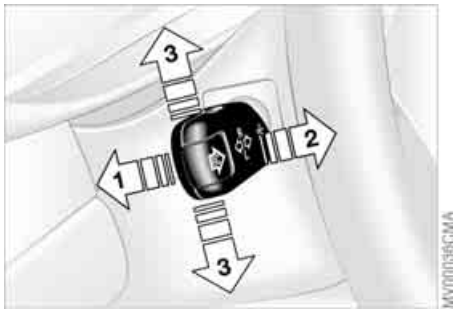
Following a tire or wheel change and after mounting or removing snow chains, the slip recognition of the SMG Drivelogic must become familiar with the changed condition.

Reinitialize the system afterwards.

1. Move the selector lever into position N on a straight stretch of road at a speed of over 20 mph / 30 km/h
2. Pull both shift paddles for approx. 2 seconds.

If you do not carry out the initialization, the system automatically learns the changed condition gradually during driving. This can become apparent due to brief opening and closing of the clutch.

Turn signal indicator/Headlamp flasher

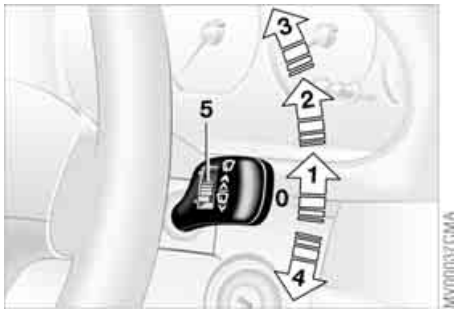


1 High beams – blue indicator lamp
2 Headlamp flasher – blue indicator lamp
3 Turn signal indicator – green indicator lamps accompanied by a periodic clicking sound from the relay

To signal briefly

Press the lever up to but not beyond the resistance point. It then returns to the center position when released.

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



0 Wipers retracted
1 Intermittent operation or rain sensor
2 Normal wiper speed
3 Fast wiper speed
4 Brief wipe
5 Rotary dial for control of the wipe interval or the sensitivity of the rain sensor

Intermittent mode

Not on vehicles with rain sensor.

You can set the wipe interval at four stages with rotary dial 5. In addition, the wipe interval is varied automatically depending on road speed.

Rain sensor*

The rain sensor is positioned on the windshield, directly behind the interior rearview mirror.

To activate the rain sensor:

▷ With the ignition key in position 1 or higher, 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 when the ignition key in position 1 or higher. Activate by briefly turning rotary dial 5.

To adjust the sensitivity of the rain sensor: turn rotary dial 5.

To deactivate the rain sensor: put lever in position 0.

Turn the rain sensor off in automatic car washes. Failure to do so could result in damage caused by undesired wiper activation.◀

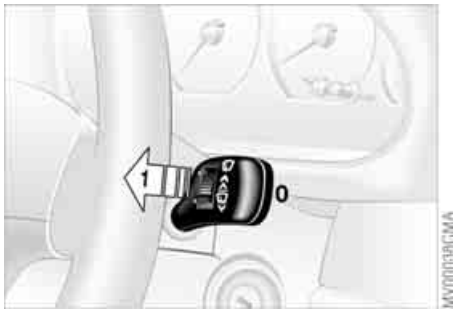
Normal wiper speed

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

Fast wiper speed

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

Washer/wiper system/Rain sensor*



0 Wipers retracted

1 Clean windshield and headlamps

Clean windshield and headlamps*

Do not use the washers if there is any danger that the fluid will freeze on the windshield, as your vision could be obscured. Always use a windshield washer antifreeze in cold weather. Refer to page 122.
Do not use the washers when the reservoir is empty. This could cause damage to the washer pump.◀

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

When the vehicle's lighting system is switched on, the headlamps will also be cleaned at reasonable intervals.

Windshield washer nozzles

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

Cruise control

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

The cruise control is operational whenever the engine is running and the system has been activated.

To activate the system

I/0

In ignition key position 2:

Press the button in the steering wheel. The indicator lamp in the instrument cluster comes on, refer to page 20. You can now use the cruise control.

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

To deactivate the system

I/0

Press button as often as you need to until the indicator lamp in the instrument cluster goes out.

Cruise control is also deactivated when the ignition key is in position 0.

The speed stored in memory is deleted.

To store and maintain speed or to accelerate

Press button + briefly:

The system stores and maintains the current vehicle speed. Every time you tap the button, the speed increases by approx. 0.6 mph / 1 km/h.

Press and hold button +:

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

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

To decelerate

Press button – briefly:

When cruise control is active, every tap of the button reduces the speed by approx. 0.6 mph / 1 km/h.

Press and hold button –:

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

To interrupt the cruise control

When the system is activated, press the button. The indicator lamp stays on. You can use the cruise control again whenever you want by calling up the speed that was stored last.

In addition, cruise control is interrupted automatically:

- When the brakes are applied
- When pressing down the clutch pedal
- If you exceed or fall below the programmed speed for an extended period – by depressing the accelerator, for example
- Sequential M gearbox with Drivelogic: when shifting in the sequential mode – refer to page 67. when shifting in the sequential mode, refer to page:.

To recall the stored setting

Press button:

The vehicle accelerates to and maintains the last speed stored.

Odometer

1 Odometer
2 Trip odometer

Odometer

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

Trip odometer

To reset the trip odometer to zero, press the left button with the ignition key in position 1 or higher.

Tachometer

Variable pre-warning zone

The yellow pre-warning zone displays current permissible engine speeds, depending on the engine temperature. As the engine temperature climbs, some of the sectors for this pre-warning zones will go out one after the other.

Avoid engine speeds in the early warning zone if possible.

Never allow the engine to operate with the needle in the red overspeed zone of the gauge.

To protect the engine, the fuel supply is interrupted when you approach this sector.

Engine oil temperature

The general operating temperature lies between 175 ºF/80 ºC and 250 ºF/120 ºC. During high-performance driving, do not exceed a maximum value of 300 ºF/150 ºC.

Fuel gauge

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

Fuel tank capacity approx. 16.6 gal./ 63 liters.

If the tilt of the vehicle varies – when you are driving in mountainous areas, for example – the needle may fluctuate slightly.

Fill the fuel tank before it is completely empty. Driving to the last drop of fuel can prevent the engine from operating properly and result in damage.◀

When you switch on the ignition, the indicator lamp lights up briefly as an operation check.

Engine coolant temperature gauge

Blue

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

Between the blue and red zones

Normal operating range. The needle may rise as far as the edge of the red sector during normal operation.

Red

When you switch on the ignition, the warning lamp comes on briefly as an operation check.

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

To check the coolant level, refer to page 124.

Service interval display

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.

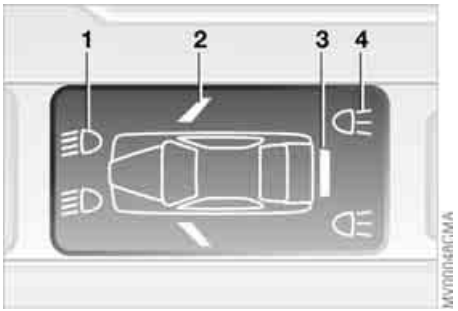
Remaining distance to next service

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

The next service due appears with the message OIL SERVICE or INSPECTION, together with the distance remaining in miles – in kilometers in Canada – before the next scheduled service.

The computer bases its calculations of the remaining distance on the preceding driving style.

Check Control



Display

When the ignition key is in position 2, the following information and/or conditions are indicated using symbols until the conditions have been corrected.

1 Inspect the low-beam and high-beam headlamps, as well as the parking lamps

2 Door open

3 Luggage compartment lid open

4 Check tail or brake lamps

When you open the driver's door, after having turned the ignition key to position 0, you will hear an acoustic signal for a few seconds to remind you that the lamps have not been switched off.

Clock

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

You can set the time of day, and the display for the car radio, as follows.

Setting

Before the clock can be set, the time must be showing in the instrument cluster display.◀

With the ignition key in position 1 or higher

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

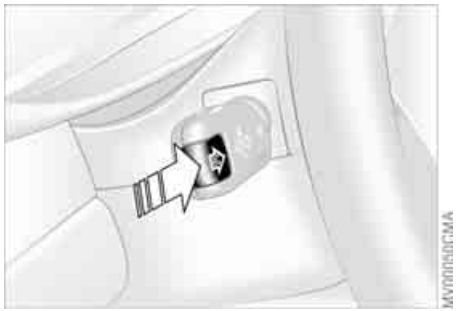
To set back: turn the right button to the left.

The adjustment speed will increase the longer you continue to hold the right button.

To change the display mode: press the right button briefly.

Every time you press the button, the clock display alternates between the 12-hour and 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 76.



After giving an ice warning, the display returns to the previous setting.◀

The ice warning does not alter the fact that surface ice can form at temperatures above 37.5 °F/+3 °C, on bridges or shaded road surfaces, for instance.◀

Mode selection

With the ignition key in position 1 and higher, you can use the button in the turn signal lever to retrieve information from the computer for display in the instrument cluster. Each time you press the button briefly in the direction of the steering column, a new function is called up in the display.

The displays appear in the following order:

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

When the ignition key is in position 1 or higher, the last active setting is displayed.

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. The units of measure °C/°F in the temperature display of the automatic climate control change automatically, refer to page 92.

Ice warning

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

Average fuel consumption

If you continue to press and hold the button on the turn signal lever, the average fuel consumption being displayed is recalculated from that point.

If you wish, you can have the average fuel consumption displayed in a different unit of measure.◀

Range

The computer bases its calculations for the cruising range on the operating conditions in the preceding period and on the remaining fuel in the tank.

It is important that you refuel when the cruising range falls below approx. 35 miles/50 kilometers. Otherwise, the engine cannot be guaranteed to operate properly and damage may result.◀

Average speed

If you continue to press and hold the button on the turn signal lever, the average speed being 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.

Park Distance Control (PDC)*

The concept

PDC assists you when you back into a parking space. Acoustic signals alert you to the momentary distance to an object behind your vehicle. 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 range for the two middle sensors is slightly less than 5 ft/1.50 m.

PDC is a parking aid that can identify objects if they are approached slowly, as is generally the case when parking. Avoid driving towards objects rapidly; due to underlying physical principles, the system may otherwise alert you too late for you to take evasive steps.◀

The system starts to operate automatically approx. one second after you shift into Reverse or move the selector lever into the R position with the ignition key in position 2.

Let this short period elapse before driving backwards.◀

PDC is deactivated when you shift back out of Reverse.

You can have a signal set to confirm that the PDC has been activated. The signal then sounds when you shift into Reverse or move the selector lever into the R position.◀

Acoustic 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 object 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 have your BMW center resolve the problem.

PDC does not replace the driver's personal responsibility for evaluating the distance between the vehicle and any objects. 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 or wedge-shaped objects. Moreover, low objects that have already been detected – such as a curb edge – can disappear out of the detection range of the sensors before a continuous tone sounds.
Loud sources of sound from outside or inside the vehicle could drown out the PDC signal tone.◀

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

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, within physically feasible limits, helps keeping the vehicle on a steady course by reducing the engine speed and brake applications to the individual wheels.

DSC starts up automatically each time you start the engine.

The laws of physics cannot be repealed, even with DSC. The results of driving irresponsibly rest with the driver. We therefore urge you to avoid using the additional safety margin of the system as an excuse for taking risks.
Do not make any modifications to the DSC system. Allow only authorized technicians to perform service procedures on the DSC. At first, you may need some time to become accustomed to this system's intervention. However, it guarantees optimum drive force and at the same time, the best possible vehicle stability.◀

Indicator lamp

The indicator lamp in the instrument cluster will go out shortly after the ignition has been switched on, refer to page 20.

- ▷ Indicator lamp flashes: DSC is active and is controlling the drive torque based on driving conditions
- ▷ If the indicator lamp fails to go out after the engine has been started, or if it comes on during normal driving and stays on: DSC has been deactivated via the button or is defective. Please consult your BMW center for repairs.

You can continue to drive the vehicle normally without DSC.

Dynamic Stability Control (DSC)

To deactivate DSC

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

The vehicle does not execute the stability-enhancement and traction-control functions when DSC is deactivated.

We recommend that you deactivate DSC for increased traction:

- When rocking the vehicle or starting off in deep snow or on loose surfaces
- When driving with snow chains
- When driving on snow-covered grades, in deep snow, or on a snow-covered surface that has been packed down from being driven on.

To maintain vehicle stability, always drive with the DSC activated on whenever possible.◀

To reactivate DSC

Press the button again; the indicator lamp goes out.

Flat Tire Monitor

The concept

As you drive, the Flat Tire Monitor keeps track of pressure levels in all four tires. The system alerts you whenever the inflation pressure of a tire falls significantly below the pressure of another tire.

Controlling the tire pressure is based on monitoring the rpm that the tires have relative to each other. A flat tire is detected and reported because the rpm suddenly deviate drastically from one another.

Functional requirements

In order for the Flat Tire Monitor to learn the correct tire inflation pressure, please do the following:

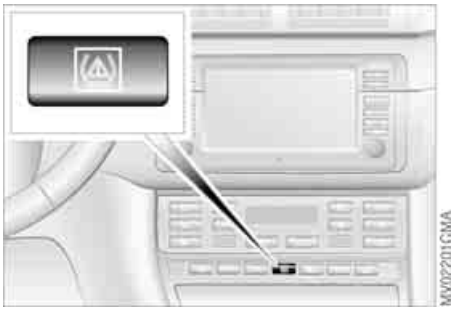
1. Check the tire inflation pressures in all tires
2. Compare them with the tire inflation pressure table on page 25 and correct them, if necessary
3. Initialize the system.

System limitations

The Flat Tire Monitor cannot provide you with advance warning of sudden and severe tire damage caused by external factors and does not detect the balanced and very gradual pressure loss that takes place in all four tires over an extended period of time.◀

On the other hand, the following situations can lead to a delayed detection of pressure loss and even to the system not functioning:

- ▷ Driving on snow-covered or slippery roads
- ▷ Performance-oriented driving: slip at the drive wheels, high levels of lateral acceleration
- ▷ When driving with snow chains, false warnings and undetected pressure losses may occur.



Initializing the system

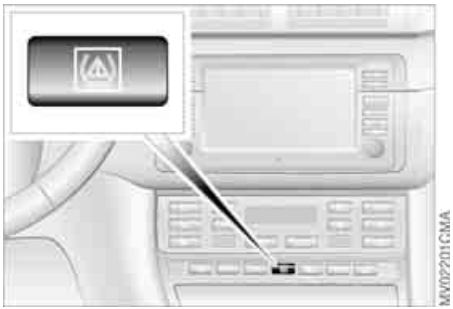
Each time you correct the pressure in a tire, or change a wheel or tire, reinitialize the system immediately afterwards. This requires a bit of driving.◀

1. Before driving off, start the engine but do not start driving
2. Press the button as long as you need to until the yellow indicator lamp in the instrument cluster lights up for a few seconds
3. Drive off.

It takes a few minutes before the Flat Tire Monitor can detect a flat tire and issue a warning.

When driving with snow chains, do not initialize the system.◀

Flat Tire Monitor



To activate/deactivate the system

The system is automatically activated in ignition key position 2 and consequently is on whenever the vehicle is operated.

To deactivate the system: tap the button, the indicator lamp will light up yellow.

To activate the system: tap the button again; the indicator lamp goes out.

Deactivate the system when snow chains are mounted, since false warnings and undetected losses in pressure are possible under these kinds of conditions.

Flat tire

The indicator lamp in the instrument cluster lights up red. In addition, an acoustic signal is sounded.

1. Carefully reduce speed and come to a stop. Avoid sudden braking and steering maneuvers
2. Determine which wheel is damaged

If this cannot be determined, contact your BMW center.◀

3. Fix the flat tire using the M Mobility system, refer to page 136.

After replacing the damaged tire, initialize the system.

System malfunction

The indicator lamp in the instrument cluster lights up yellow. The Flat Tire Monitor is malfunctioning or out of order. Please contact your BMW center for additional information.

M Engine dynamics control

The system – Sport mode – will cause the engine to respond more spontaneously to any motion of the accelerator pedal.

Activating/deactivating Sport mode

Activating: with the ignition key in position 2, press the SPORT button. The indicator lamp will come on.

Each time you activate the system, the vehicle may gain speed without any additional pressure on the accelerator pedal.◀

Deactivating: press the SPORT button again; the indicator lamp will go out.

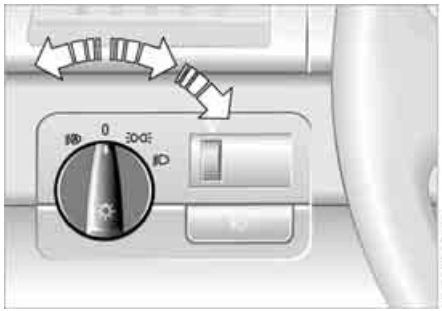
The Sport mode is deactivated every time the engine is started.

Brake force display

The brake force display indicates to the driver of the vehicle behind you how hard you are braking your vehicle.

The display has two levels:

- ▷ Normal braking: the brake lamps among the rear lamps and the center brake lamp light up
- ▷ Hard braking or use of ABS: the tail lamps light up with the same brightness as the brake lamps and thereby intensify the visual effect of the brake lamps.



Parking lamps

The front, rear and side vehicle lighting is switched on. You can use this to signal the position of the vehicle when it is parked. For lighting on one side for parking as an additional feature, refer to page 89.

Low beams

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

Follow me home lamps

When you activate the headlamp flasher after parking the vehicle and switching off the lights, the low beams will come on for a brief period.

You can also have this function deactivated.◀

LIGHTS ON warning

Whenever you open the driver's door after having turned the ignition key to position 0, you will hear an acoustic signal for a few seconds to remind you that the lamps have not been switched off.

Daytime driving lamps*

If you desire, the light switch can be left in the low-beam position: when the ignition is switched off, the external lighting is also switched off.

When required, switch on the parking lamps as usual as described under Parking lamps.

You can have the activation settings for the daytime driving lamps programmed on your vehicle.◀

Automatic headlamp control*

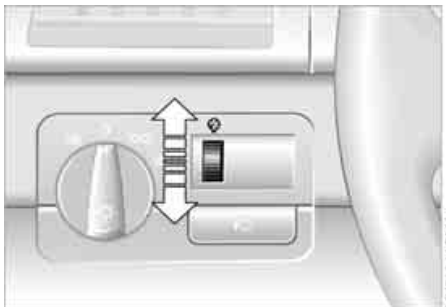
When the switch is in this position the system automatically responds to changes in ambient light – in tunnels, at dusk, etc. – and in the event of rain and snow – by switching the low beams on or off.

The vehicle's external lamps remain on constantly when you switch on the front fog lamps after the headlamps have come on automatically.◀

Automatic headlamp control cannot serve as a substitute for your personal judgement in determining when the lamps should be switched on. For example, the sensors are not able to detect fog. In such situations switch on the lamp manually, as otherwise a safety hazard will result.◀

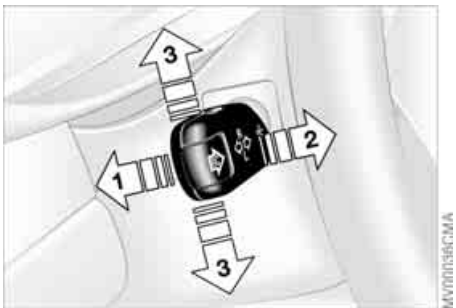
You can have the sensitivity of your vehicle's automatic headlamp control adjusted.◀

Instrument lighting



Turn the rotary dial with the parking/low beam lamps on to adjust the illumination intensity.

High beams/Standing lamps



1 High beams – blue indicator lamp
2 Headlamp flasher – blue indicator lamp
3 Standing lamps

Standing lamps, 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.

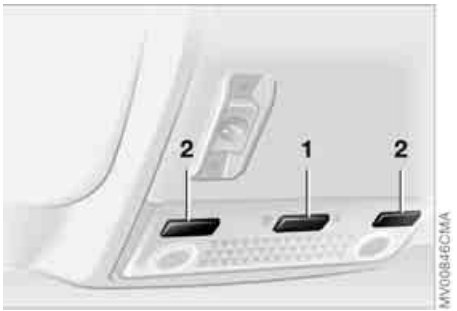
Fog lamps

Front fog lamps

The green indicator lamp in the instrument cluster lights up to indicate that the front fog lamps are on.

If the automatic headlamp control is on, the low beams will come on automatically whenever you activate the front fog lamps.◀

Interior lamps



The interior lamps operate automatically.

To switch the interior lamps on and off manually

Press button 1 briefly.

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

Press the button briefly to revert to normal operation.

Front reading lamps

Switch on and off with the button 2 adjacent to each lamp.

Rear reading lamps

Switch on and off with the button adjacent to each lamp.

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

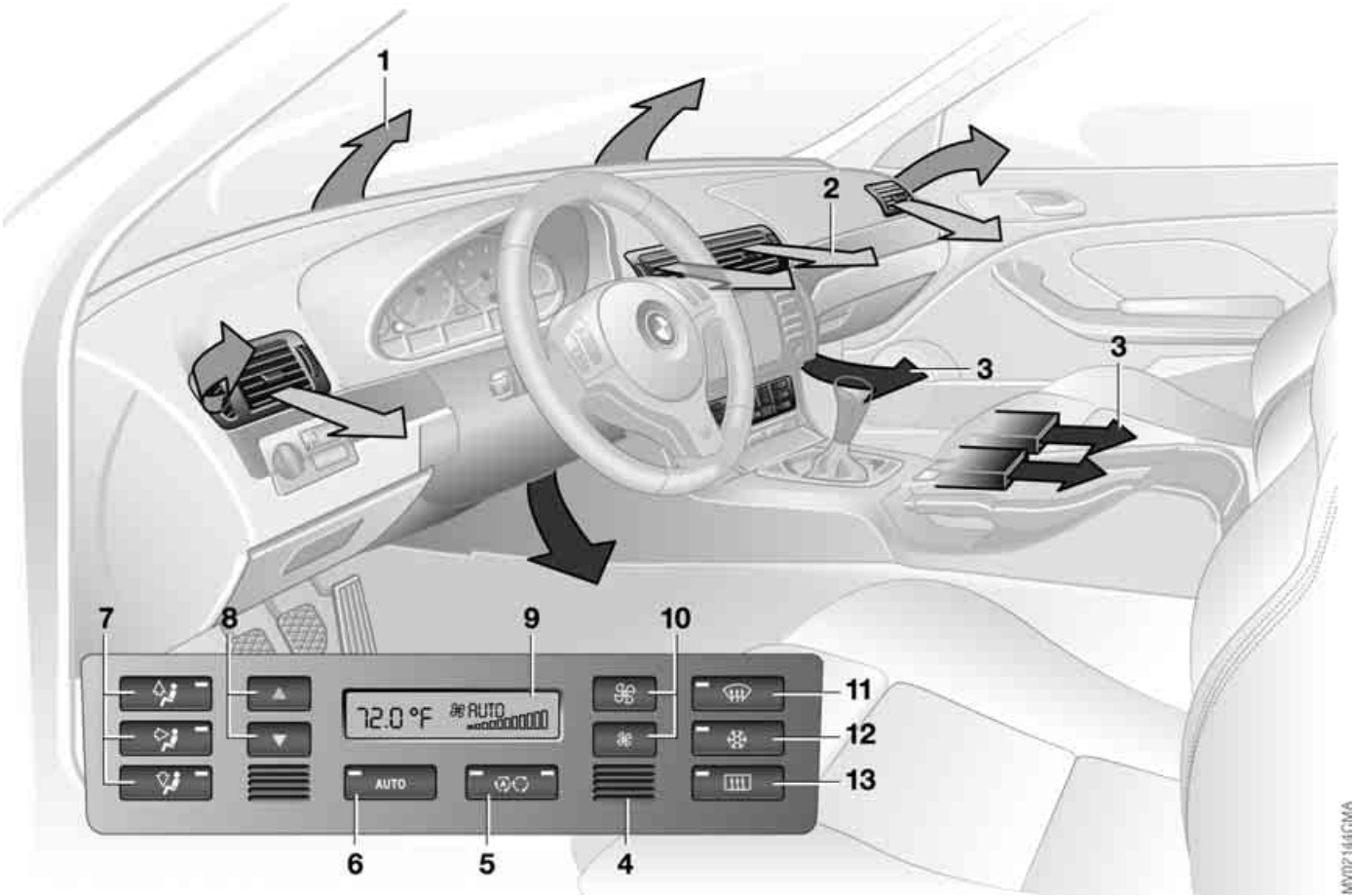
Light-emitting diodes

Light-emitting diodes (LEDs) installed behind translucent lenses serve as the light sources for many of the controls and displays in your vehicle. These light-emitting diodes are related to conventional lasers, and legislation defines them as light-emitting diodes, Class 1.

Interior lamps

Do not remove the protective lens and avoid staring directly at the unfiltered beam for several hours, as inflammation of the retina could result.◀

Automatic climate control



Automatic climate control

1 Air onto the windshield and the side windows
2 Air for the upper body area 95
3 Air to the footwell
4 Interior temperature sensor – please keep clear and unobstructed
5 Outside air/Automatic recirculated-air control (AUC)/Recirculated air 95
6 Automatic air distribution and supply 94
7 Individual air distribution 94
8 Temperature 94
9 Display for temperature and air supply 94
10 Air supply/Blower 94
11 To defrost windows and remove condensation 94
12 Air conditioning 94
13 Rear window defroster 95

Tips for pleasant driving

Use the automatic mode – switch on with AUTO button 6. Select the desired interior temperature.

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

You can make the settings of your vehicle in such a manner that, when you unlock the vehicle with the remote control of your personal key, your own personalized setting for the automatic climate control is initiated.◀

Automatic air distribution and supply

The AUTO program adjusts 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.

Individual air distribution

You can cancel the AUTO program by selecting specific distribution patterns to suit your own individual requirements. While the AUTO program is then deactivated, the automatic airflow control remains in operation. Air flows onto the windows, toward the upper body, and into the footwell. You can reactivate the automatic air supply by pressing the AUTO button.

Temperature

The interior temperature that appears in the display panel is a general figure intended for reference purposes. We recommend 72 °F / +22 °C as a comfortable setting, even if the air conditioning 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.

To select the units of measure °C/°F of the display, refer to page 80.

Air supply/Blower

By pressing the upper or lower button, you can vary the air supply. This deactivates the automatic air supply – the AUTO display disappears from the panel. Nevertheless, the automatic air distribution remains unchanged. You can reactivate the automatic air supply by pressing the AUTO button.

When the lowest blower speed is set and you press the lower 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 windows and remove condensation

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

Air conditioning

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

Depending on the weather, the windshield may fog over briefly when the engine is started. Air conditioning helps prevent the windows from fogging up.

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

Outside air/Automatic recirculated-air control (AUC)/ Recirculated air

You can respond to unpleasant external odors or pollutants by temporarily stopping the flow of outside air. The system then recirculates the air currently within the vehicle.

By repeatedly pressing the button, you can select one of three different operating modes.

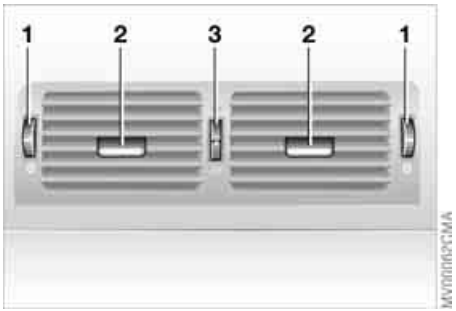
- ▷ Indicator lamps off: outside air always flowing into the vehicle
- ▷ Left-hand indicator lamp on – automatic mode: the system detects pollutants in the outside air and responds by deactivating the outside airflow as required. The system then recirculates the air currently within the vehicle.
  Depending on air quality requirements, the system automatically switches between outside air supply and recirculation of the air already within the vehicle
- ▷ Right-hand indicator lamp on: the flow 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 the recirculated-air 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.

You can have your vehicle programmed in such a way that the rear window defroster switches on automatically. This occurs within 5 minutes after starting the engine when outside temperatures are below approx. 39 °F /+4 °C.◀



Draft-free ventilation

You can adjust the blower controls for the upper body area to obtain the optimum airflow rates and directions for your personal requirements:

1 Rotary dials for infinitely variable opening and closing of the vents

2 Lever for adjusting airflow direction

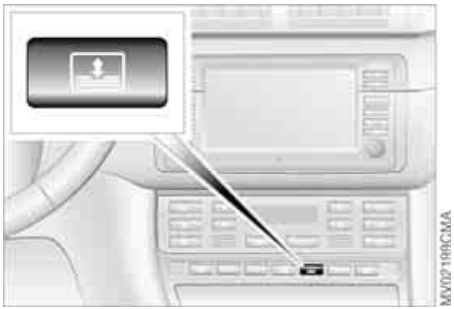
3 With the rotary dial you can adjust the temperature of the outgoing air:
- ▷ Turn toward blue – colder
- ▷ Turn toward red – warmer

Automatic climate control

Microfilter/Activated-charcoal filter

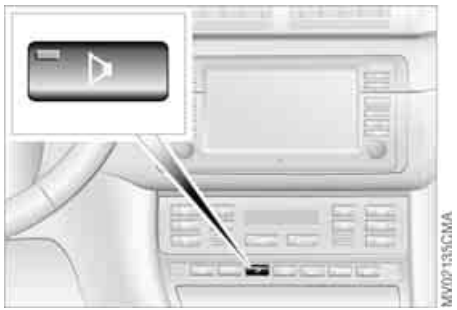
The built-in microfilter removes dust and pollen from the incoming air. The activated-charcoal filter provides additional protection by filtering gaseous pollutants from the outside air. Your BMW center will replace the combined filter as a standard part of your scheduled maintenance. A substantial reduction in airflow indicates that the filter needs to be replaced early.

Roller sun blind*



To activate, press the button briefly with ignition key in position 1 or higher.

Premium sound system*



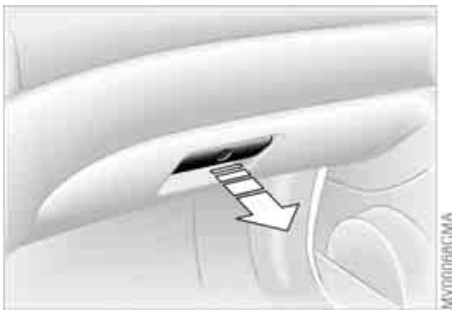
Harman Kardon premium sound system

Press the button to activate and deactivate the acoustic enhancement.

When the system is activated, the impression of a significantly larger passenger compartment is created at all seating areas, together with an improvement of the stereo effect.

The system responds to poor reception conditions by repeatedly alternating between the stereo and monophonic modes. You should then switch the system off.

Glove compartment



To open

Pull the handle. The glove compartment will light up.

To close

Fold up cover.

⚠ To prevent injury in the event of an accident, close the glove compartment immediately after use.◀

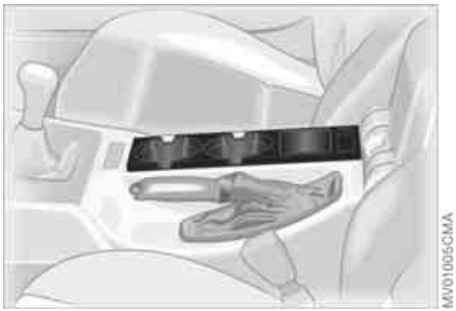
To lock

Lock with one of the master keys. A master key can also be used for unlocking.

Glove compartment

If – for example for valet parking – you turn over only your spare key, refer to page 30, then access to the glove compartment and to the luggage compartment is not possible.◀

Storage compartments



Front center armrest*

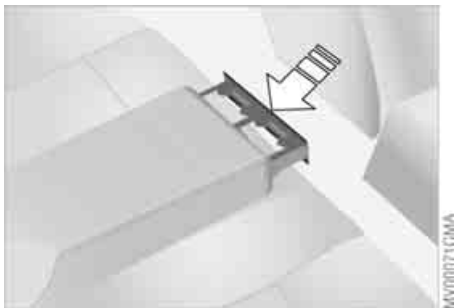
To open: press the button and fold up.

Additional compartments and nets

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

Beverage holders, coin box

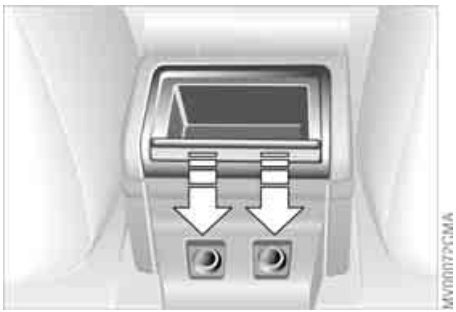
A coin box and two beverage holders are provided in the center console.



Rear center armrest

You will find a beverage holder in the rear center armrest.

Opening the beverage holder: press.



Storage package*

For your convenience, there are:

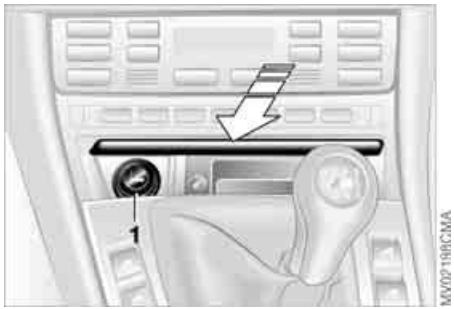
- ▷ Two flip-out sockets on the rear center console – see arrows
- ▷ An eyeglasses storage compartment* in the front center console above the ashtray.

Hands-free system

On vehicles that are wired for a telephone* or equipped with a communications package*, the cover for the hands-free microphone is located in the headliner near the interior lamp.

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

Ashtray, front*



To empty

Press on the edge of the open cover. You can now pull the ashtray upward for removal.

Extinguishing cigarettes

Tap off the ash and gently press the tip into the funnel.

Cigarette lighter

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.◀

Press lighter 1 in. As soon as the lighter jumps back out, it can be removed.

Cigarette lighter socket

It can be used for attaching power supplies for flashlights, car vacuum cleaners and other similar appliances 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*

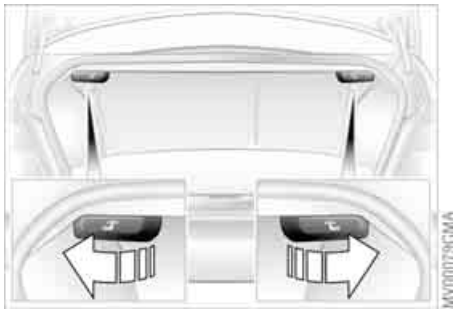
To empty

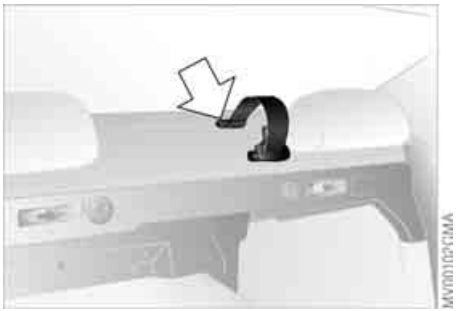
Press on the edge of the open cover in the opening direction: you can now pull the ashtray upward for removal.

Clothes hooks

To open, press on the upper edge. For additional information: refer to page 111.

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.◀





Folding the rear backrest

1. Pull the corresponding lever to release
2. The backrest moves forward slightly when released. Reach into the gap and fold it down.

When folding the backrest back into its original position always ensure that the detent engages securely. A loose backrest might fail to prevent cargo from entering the passenger compartment during sudden braking or evasive maneuvers, posing a potential hazard to occupants.◀

Rear center 3-point safety belt*

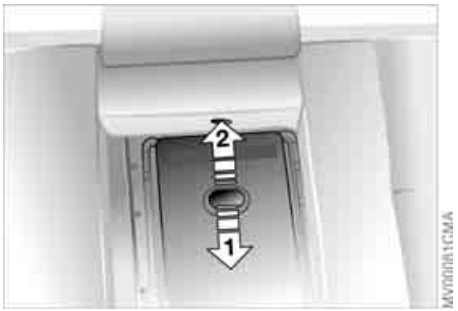
You can roll up the rear 3-point belt before folding back the through-loading system:

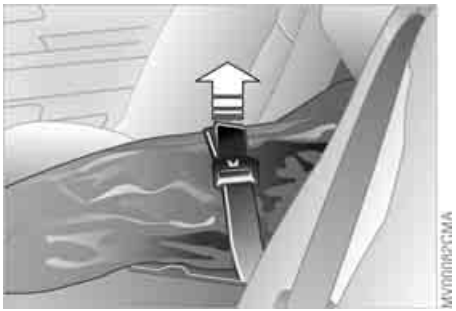
▷ Retracting the 3-point-safety belt: Loosen the safety belt and insert the buckle latch into the support mount provided on the rear window shelf.

Ski bag*

The ski bag allows the safe and clean transport of up to 4 pairs of standard 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 ft 10 in / 2.10 m long. Because of the tapered shape of the bag, only two pairs of skis longer than 6 ft 10 in / 2.10 m can be carried.





Loading

1. Fold the center armrest outward. Loosen the trim from the upper Velcro® fastener and place it on the armrest
2. Press the button downward – see arrow 1 – and fold the cover forward
3. Extend the ski bag between the front seats. The zipper provides convenient access to stored items. It may be opened to allow the ski bag to dry
4. Press the button – see arrow 2: this releases the cover panel in the luggage compartment.

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

Securing cargo

Secure skis and any other objects stored in the bag by tightening the retaining strap at the buckle.◀

Please be sure that the skis are clean before loading them into the bag. Be careful to avoid damage from sharp edges.◀

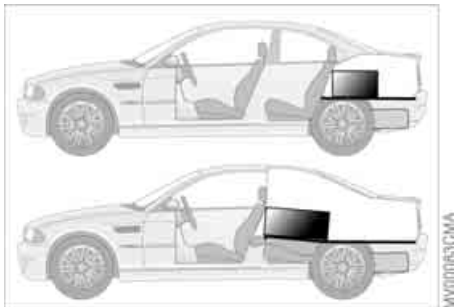
Avoid overloading the vehicle so that the permitted load on the tires is not exceeded. Overloading can lead to overheating and internal tire damage. This can result in a sudden loss of tire inflation pressure.◀

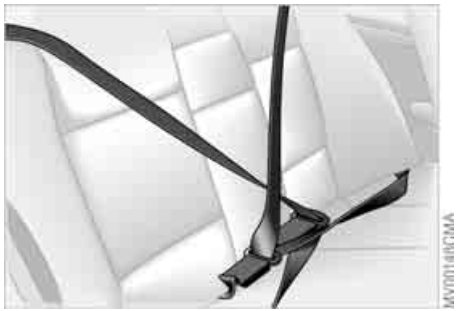
Determining the maximum load

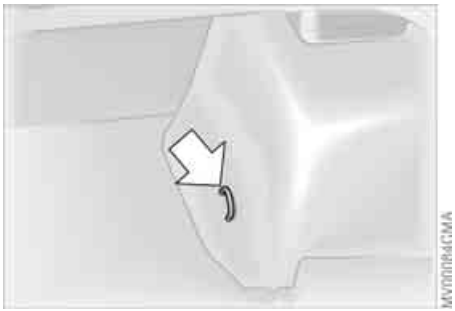
1. Locate the following statement on your vehicle's placard*:

The combined weight of occupants and cargo should never exceed XXX kg or YYY lbs., as this could otherwise result in damage to the vehicle or unstable driving conditions.◀

2. Determine the combined weight of the driver and passengers that will be riding in your vehicle
3. Subtract the combined weight of the driver and passengers from XXX kilograms or YYY pounds
4. The resulting figure equals the available amount of cargo and luggage load capacity.
   For example, if the XXX amount equals 1,400 lbs. and there will be five 150 lbs. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs.:
   1,400 lbs. minus 750 lbs. = 650 lbs.
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4
6. If your vehicle will be towing a trailer, load from your trailer will be transfered to your vehicle. Consult the manual for transporting a trailer to determine how this may reduce the available cargo and luggage load capacity of your vehicle.







Stowing cargo

▷ Load heavy cargo as far forward as possible – directly behind the backrests – and as low as possible
▷ Cover sharp edges and corners
▷ Do not pile objects higher than the top edge of the backrest
▷ For very heavy loads when the rear seat is not occupied, secure each safety belt in the opposite buckle, see illustration.

Securing the cargo in the luggage compartment

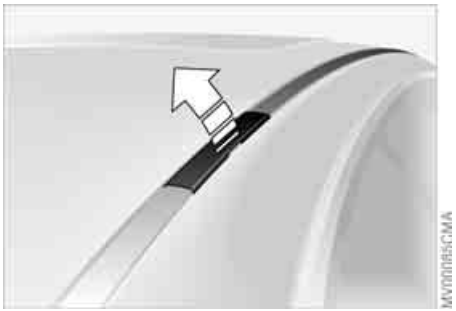
▷ For small, light items, use the rubber-lined, non-skid side of the floor mat or secure using the luggage compartment net* or elastic straps, refer to page 37
▷ For large, heavy pieces, see your BMW center for load-securing devices*. Anchorages located in the luggage compartment can be used for fastening the load-securing devices.

Comply with the information enclosed with the load-securing devices.

Cargo loading

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 vehicle weight or the approved axle loads, refer to page 152. Otherwise the vehicle's operating safety is no longer assured and the vehicle will not be in compliance with the certification regulations.
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.◀

Roof-mounted luggage rack*



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

Anchorages

Access to the mounting points:

To fold up the covers, please use the tool provided with the roof-rack system.

Loading and driving notes

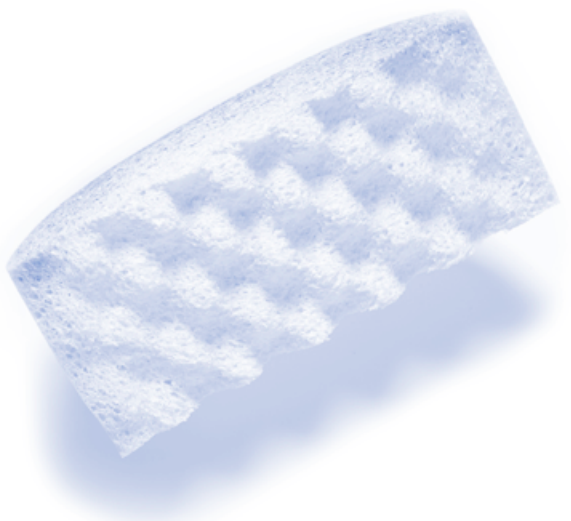
Because roof racks raise the center of gravity of the vehicle when loaded, they exercise a major effect on its handling and steering response.

When loading, be sure to remember not to exceed the approved roof weight or the approved gross vehicle weight or the axle loads. You will find the specifications under Technical data on page 152.

Make sure that the load is not too bulky, and attempt to distribute it evenly. Always load the heaviest pieces first so that they are at the bottom. Be sure that adequate clearance is maintained for raising the glass sunroof, and that objects do not project into the opening path of the luggage compartment lid.

Secure the roof-mounted luggage correctly and securely to prevent it from shifting or being lost during driving.

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



Break-in procedures

To ensure that your vehicle provides maximum economy throughout a long service life, we request that you observe the following suggestions.

Because of its engineering design, the BMW M3 is an especially high-quality vehicle. It is in your best interest to follow the break-in tips very closely. Doing this, you will create the basis for a long, optimum service life.◀

Engine and differential

▷ Up to 1,250 miles/2,000 km: Drive at varying engine and road speeds, but do not exceed the following engine or road speeds:
5,500 rpm or 105 mph / 170 km/h.

Obey your local and state maximum speed limits.

Do not depress the accelerator pedal to the full-throttle position.

Vehicles with SMG Drivelogic, refer to page 67: refrain from using driving program 6 in the sequential mode during the break-in period.

▷ Following the break-in inspection at 1,250 miles/2,000 km, you can gradually increase engine or road speeds.

Follow the same break-in procedure if either the engine or the differential should have to be 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. Thus drive with extra care 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 hydroplaning, and can lead to partial or complete loss of traction, as well as loss of vehicle control and braking effectiveness. Reduce your speed on wet roads.◀

Brake system

Approx. 300 miles/500 km must elapse before the brake pads and rotors 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 – use caution to avoid posing a danger to other road users.

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. Drive cautiously during this break-in period and do not press the clutch or shift at high engine speeds.

Brakes: do not rest your foot on the brake pedal while driving. Even light but consistent pedal pressure can lead to high temperatures, brake wear and possibly even brake failure.
Hydroplaning: when driving on wet or slushy roads, reduce road speed. If you do not, a wedge of water can form between tires and road surface. This phenomenon is referred to as hydroplaning, and can lead to partial or complete loss of traction, vehicle control and braking effectiveness.
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.
Rear parcel tray: never use it to store heavy or hard objects; otherwise, occupants could be injured if the vehicle is braked hard.
Clothes hooks: 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.◀

Portable phone in the vehicle

BMW recommends using mobile communications devices, e.g. portable phones, inside the vehicle with a suitable outside antenna. Otherwise, it cannot be ruled out that the vehicle electronics and portable phone may interfere with each other.

Antilock Brake System (ABS)

The concept

ABS keeps the wheels from locking during braking, thereby enhancing active driving safety.

Braking with ABS

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

Pulsation at the brake pedal combines with sounds from the hydraulic circuits to indicate to the driver that ABS is in its active mode.

Dynamic Brake Control (DBC)

DBC is included in the DSC, refer to page 83.

If you apply the brakes rapidly, this system automatically generates maximum braking force boost and thus helps to achieve the shortest possible braking distance in panic braking situations. All of the benefits of the ABS 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.

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.

Brake system

Brake fluid level

Low brake fluid level in the reservoir combined with longer than usual pedal travel may indicate a defect in one of the brake system's hydraulic circuits.

Proceed to the nearest BMW center. Higher brake application pressure may be necessary when stopping, and the vehicle may exhibit a slight tendency to pull to one side. Brake distances may even be longer. Please remember to adapt your driving style accordingly.◀

Disc brakes

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

Corrosion on brake rotors is signaled by a running or pulsation during braking; even extended subsequent braking will not cure this phenomenon.

It is a good idea to periodically dry the brakes with a gentle application when driving in rain and on wet roads. Watch traffic conditions to ensure that this maneuver does not endanger other road users. The heat generated in this process helps dry the pads and rotors to ensure that your brake system will respond with undiminished efficiency when you need it.

Extended or steep mountain descents should be driven in the gear in which only minimal periodic brake applications are required. This helps avoid placing excessive loads on the brake system. Stay within the allowable rpm range. For additional information, refer to page 76.

Do not coast with the clutch depressed or with the gearshift lever in idle. Do not coast with the engine switched off. If you do so the engine provides no braking effect and there is no power assist for braking or steering when the engine is not running.◀

Brake pads

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

Tire inflation pressure

Information for your safety

The factory-approved tires are matched to your vehicle and have been selected to provide optimum safety and driving comfort when used properly.

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 tire inflation pressure is a frequent cause of tire damage. It also significantly influences the road-holding ability of your BMW. Check tire inflation pressures on a regular basis, refer to page 25, at least every two weeks and before beginning a longer trip. If this is not done, incorrect tire pressures can cause driving instability and tire damage, ultimately resulting in accidents.◀

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 1/8 in / 3 mm, even though the legally specified minimum tread depth is only 1/16 in / 1.6 mm.

Below 1/8 in / 3 mm tread depth, there is a great risk of hydroplaning, even at relatively moderate speeds and with only small amounts of water on the road. Tread wear indicators in the tread-groove base – see arrow – are distributed around the wheel circumference and are labeled on the tire sidewall with TWI – Tread Wear Indicator. At a tread depth of 1/16 in / 1.6 mm, the indicators signal that the legally permissible wear limit has been reached.

Tire condition

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 internal tire damage. This can result in a sudden loss of tire inflation pressure.
Unusual vibrations encountered during normal vehicle operation can indicate tire failure or some other vehicle defect. This type of problem can be caused by contact with curbs, etc. 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, its wheels or its tires inspected.
Tire damage, up to and including blowouts, 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.

Comply with the specified tire inflation pressures – and be sure to have the wheel and tire assembly balanced every time you change a tire or wheel.

DOT quality grades

Treadwear

Traction AA A B C

Temperature A B C

All passenger car tires must conform to Federal Safety Requirements in addition to these grades.◀

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course.

For example, a tire graded 150 would wear one and one-half – 1 1/2 – times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction

The traction grades, from highest to lowest, are AA, A, B and C.

Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.◀

Temperature

The temperature grades are A – the highest – B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, 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:

Treadwear 200 Traction AA

Temperature A

Tire age

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.

The date on which the tire was manufactured is indicated by the code on the sidewall:

DOT ... 3603 indicates that the tire was manufactured in week 36 of the year 2003.

Following wheel/tire changes

Comply with the specified tire inflation pressures – and be sure to have the wheel and tire assembly balanced every time you change a tire or wheel.

Following wheel and/or tire changes you will need to reinitialize both the Flat Tire Monitor and the sequential M gearbox with Drivelogic, refer to pages 71, 85.

The right choice

BMW recommends using only wheels and tires that have been approved by BMW for your particular vehicle model, as otherwise body contact and serious accidents can result despite the use of the same nominal size, e.g. due to manufacturing tolerances. If non-approved wheels and tires are used, BMW cannot evaluate their suitability, and therefore cannot be held liable for driving safety.◀

BMW tests certain tire brands for each tire size, classifies them as road-safe and approves them. Consult your BMW center for more information. Observe any country-specific regulations, e.g. on making a corresponding entry in the vehicle documents.

The correct wheel and tire combination affects different systems such as ABS, DSC, Flat Tire Monitor. The function of these systems is impaired if improper wheel and tire combinations are used.
Therefore, only use tires of the same brand and same tread configuration on the vehicle and, for example following a tire failure, restore the approved wheel and tire combination as soon as possible.◀

The use of rims and lug bolts that do not meet the specifications of the original factory-installed equipment will affect the safe operation of your vehicle and may cause an accident and personal injury.
Never mix tires of different design, such as steel-belted radials with radial bias-belted or bias-ply tires, etc. Mixing tire types will adversely affect roadholding and can lead to loss of vehicle control.◀

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.

Do not exceed the maximum tire inflation pressures specified on the tire sidewall.

Winter tires

Choosing the right tire

BMW recommends the use of winter tires for operation under winter road conditions. While all-season tires – with M+S designation – provide better winter traction than the corresponding summer tires, they generally do not achieve the performance of winter tires.

In the interest of safe tracking and steering response, install radial tires made by the same manufacturer and with the same tread configuration on all four wheels if you elect to mount winter tires.

When mounting winter wheels, observe the different recesses of the front and rear wheels, as otherwise damage may result.◀

Do not exceed specified maximum speeds

Never exceed the maximum speed for which the winter tires are rated.
Unprofessional attempts by laymen to service tires can lead to damage and accidents.
Have this work performed by skilled professionals only. Your BMW center will be glad to assist you with both their expertise and the proper equipment for your vehicle.◀

Tire condition, tire pressure

At tread depths below approx. 3/16 in / 4 mm, tire performance under winter driving conditions deteriorates noticeably. Worn tires should therefore be replaced for safety considerations.

Comply with the specified tire inflation pressures – and be sure to have the wheel and tire assembly balanced every time you change a tire or wheel.

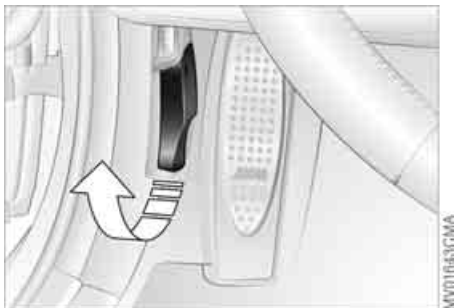
Snow chains*

Only certain snow chains have been tested by BMW and determined and approved as roadworthy. Consult your BMW center for more information. BMW recommends using only these approved fine-link snow chains. Use them in pairs on winter tires, but only on both rear wheels.

Comply with all manufacturer's safety precautions when mounting the chains. Do not exceed a maximum speed of 30 mph / 50 km/h when using snow chains.

After mounting or removing snow chains, always reinitialize the sequential M gearbox with Drivelogic, refer to page 71.

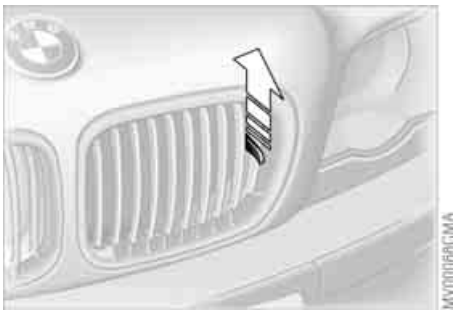
It is not possible to mount snow chains on tires with 18-inch and 19-inch wheels.
Deactivate the Flat Tire Monitor when using snow chains. Malfunction warnings and undetected losses in pressure are a possibility when driving with snow chains.
For additional information, refer to page 84.◀



To release

Pull the lever located under the left-hand side of the instrument panel.

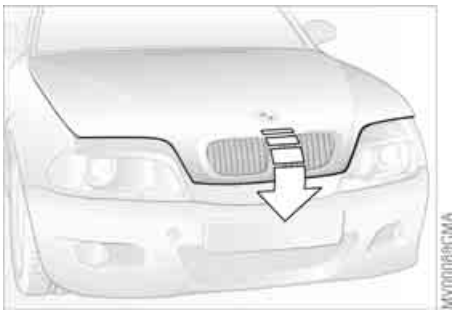
Do not attempt to service your vehicle if you do not have the required technical background. Failure to work in an informed, professional manner when servicing components and materials constitutes a safety hazard for vehicle occupants and other road users. If you are not familiar with the guidelines, BMW recommends that you have the operations performed by your BMW center.◀



To open

Pull the release handle and open the hood.

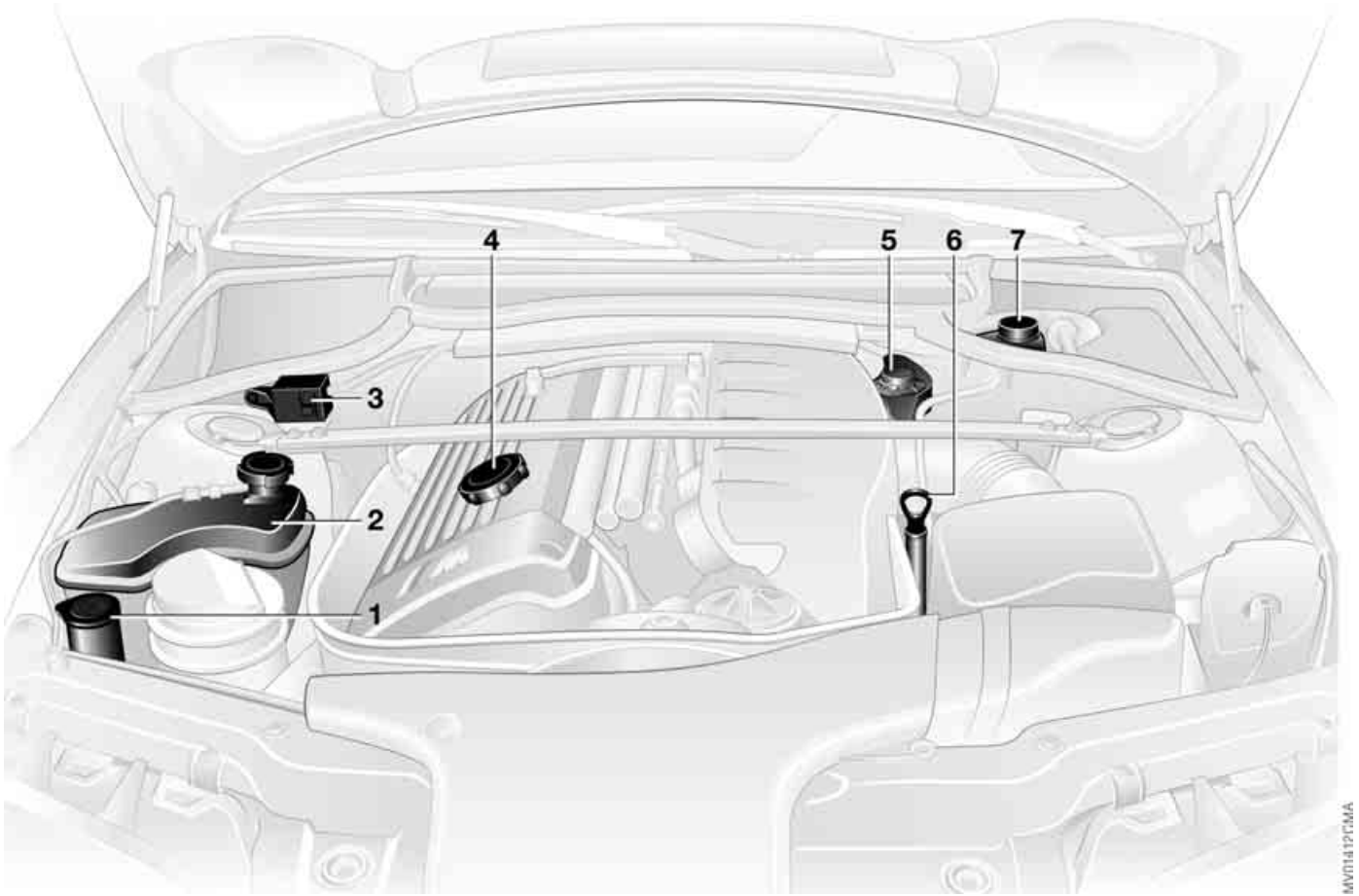
It is not possible to drive off using SMG Drivelogic when the hood is open.◀



To close

Pull the hood downwards and allow it to fall from a minimum height of 1 ft/30 cm so that it audibly engages. Check for proper locking by pulling on the hood at the left and right above the headlamps.

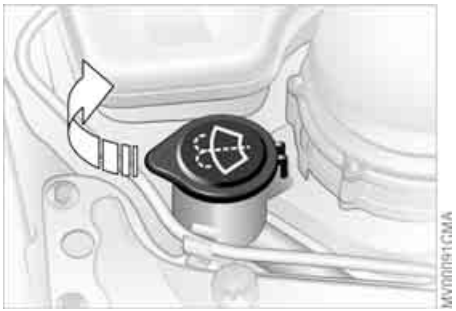
To avoid injuries, be sure that the travel path of the hood is clear when it is closed, following the same safety precautions used in all closing procedures.
If you notice while driving that the hood is not completely closed, stop immediately and close it securely.◀



Engine compartment essentials

1 Filler neck for headlamp and windshield washer cleaning system 122
2 Coolant expansion tank 124
3 Auxiliary terminal for jump-starting – positive terminal 143
4 Engine oil filler neck 123
5 Expansion tank for SMG Drivelogic hydraulic unit, checking and possible refilling by your BMW center 67
6 Engine oil dipstick 122
7 Filler neck for brake fluid 125

Washer fluids



Headlamp* and windshield washer system

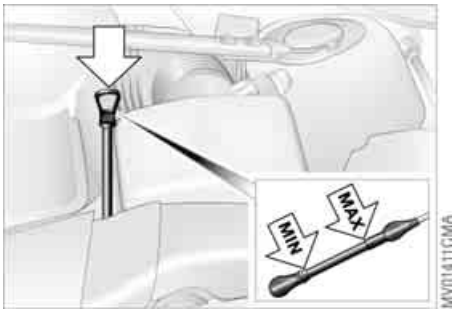
Capacity approx.
5.6 US quarts/5.3 liters.

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

We recommend that you mix the washer fluid before adding it to the reservoir.◀

Antifreeze agents for the washer fluid are highly flammable. For this reason, keep them away from sources of flame and store them only in their closed original containers. Store them inaccessible to children. Comply with the instructions on the containers.◀

Engine oil

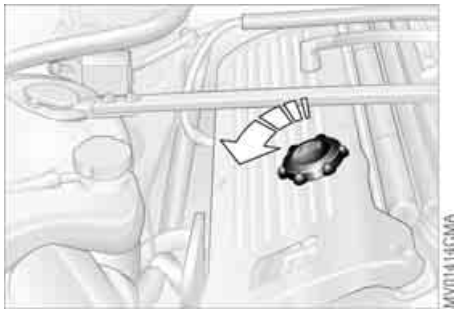


Checking the oil level

1. Park the vehicle on a level surface
2. Switch the engine off after it has reached normal operating temperature
3. After approx. 1 minute, 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. 1.4 US quarts/1.3 liters.



Adding engine oil

Only add engine oil when the oil level has dropped to just above the lower mark on the dipstick.

Do not fill beyond the upper mark on the dipstick. Excess oil will damage the engine.

Before checking the engine oil level after topping up, restart the engine and allow it to run to obtain a correct display. Then proceed as described under Checking the oil level.

BMW engines are designed to operate without oil additives; the use of additives could lead to damage in some cases. This also applies to the manual transmission, the differential, and the power steering system.◀

Recommendation: have the oil changed at your BMW center.

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. Store oils, grease and similar materials so that they are inaccessible to children. Comply with warning labels and information on containers.◀

Comply with the applicable environmental laws regulating the disposal of used oil.◀

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 grades of engine oil.

Use only oils approved for your vehicle model.

Ask your BMW center for details concerning oils that have been approved. You can also call BMW of North America toll-free at 1-800-831-1117 or visit this website: www.bmwusa.com to obtain this information.◀

Alternative oil types

If a High Performance Synthetic Oil approved by BMW should be unavailable, you may use small volumes of other oils for topping up between oil changes. The following data must appear on the packaging:

- Viscosity
  preferred: SAE 10W-60
  alternative: SAE 5W-40 or SAE 10W-40
- Specifications
  preferred: API SJ/CF
  alternative: API SJ – also SK, SL, S etc.

Low ambient temperatures

The oils used by BMW at the factory for your vehicle model can be used at virtually any ambient temperature.

Engine oil

However, if the vehicle is exposed to temperatures below –4 °F/–20 °C for extended periods, please have your BMW center recommend a suitable oil.

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.
Antifreeze and anti-corrosion agents are hazardous to health. You should always store them in their closed original containers and in a location inaccessible to children. Antifreeze and anti-corrosion agents are inflammable. For this reason, do not spill them on hot engine parts. They could ignite and cause burns. Comply with the instructions on the containers.◀

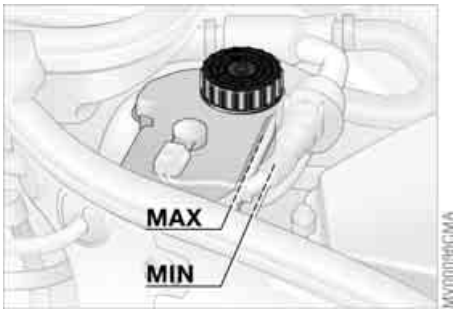
Comply with the applicable environmental laws regulating the disposal of antifreeze agents with corrosion inhibitor.◀

Checking the coolant level and adding coolant

Check the coolant level when the engine is cold, approx. 68 °F/+20 °C.

1. Open the cap for the expansion tank by turning it slightly counterclockwise to allow accumulated pressure to escape. Then open
2. 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. The end of the float may stick out by a maximum of 3/4 in / 2 cm – that is, up to the second mark on the float. Refer also to the schematic diagram next to the filler neck

3. If necessary, add coolant. If the coolant is low, slowly add coolant until the correct level is reached – do not overfill.



Indicator lamp

BRAKE The brake warning lamp comes on when the parking brake is not engaged: brake fluid level too low, refer to page 18.

Brake warning lamp for Canadian models.

Adding brake fluid

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.

Due to loss in brake fluid, pedal travel can lengthen and braking efficiency may be reduced. Refer to the information on page 112.

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 a BMW center. Refer also to the Service and Warranty Information Booklet for US models or the Warranty and Service Guide Booklet for Canadian models.
Brake fluid is toxic and damages the vehicle's paint. You should always store it in its closed original container and in a location inaccessible to children.
Do not spill the brake 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.◀

The BMW Maintenance System has been designed as a reliable means of providing maximum driving and operating safety – and as cost-effectively for you as possible.

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

While conventional systems rely on distance traveled alone to determine when service is due, the BMW Maintenance System has for years taken the actual conditions under which the vehicle operates into consideration, because miles can be traveled in many different ways:

For example, 62,000 miles/100,000 km short-distance driving are not equal to the same 62,000 miles/100,000 km of long-distance travel.

The BMW Maintenance System includes the Engine Oil Service and Inspections I and II.

Have a break-in inspection performed at approx. 1,250 miles/ 2,000 km regardless of the service interval indicated on the display.◀

Determining the maintenance intervals according to the actual loads on the vehicle covers every kind of operating situation. Minimaluse-drivers – those who drive significantly fewer than 6,200 miles/10,000 km annually – should have the engine oil changed at least every 2 years regardless of what the service interval display indicates, since oil deteriorates over time, irrespective of use.

Service and Warranty Information Booklet for US models/Warranty and Service Guide Booklet for Canadian models

For additional information on required maintenance intervals and procedures, please refer to the Service and Warranty Information Booklet for US models, or the Warranty and Service Guide Booklet for Canadian models.

As a precaution against corrosion, 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.
Be sure that all maintenance work is recorded in the Service and Warranty Information Booklet for US models, or in the Warranty and Service Guide Booklet for Canadian models. These entries are your verification for the regular maintenance of your vehicle and are required for the performance of warranty repairs.◀

Care

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

California Proposition 65 warning

California laws require us to state the following warning:

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

OBD interface socket

The Onboard Diagnostic (OBD) interface socket is located on the left of the driver's side at the bottom of the instrument panel and under a cover. The cover has the letters OBD on it.

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.

SERVICE ENGINE SOON

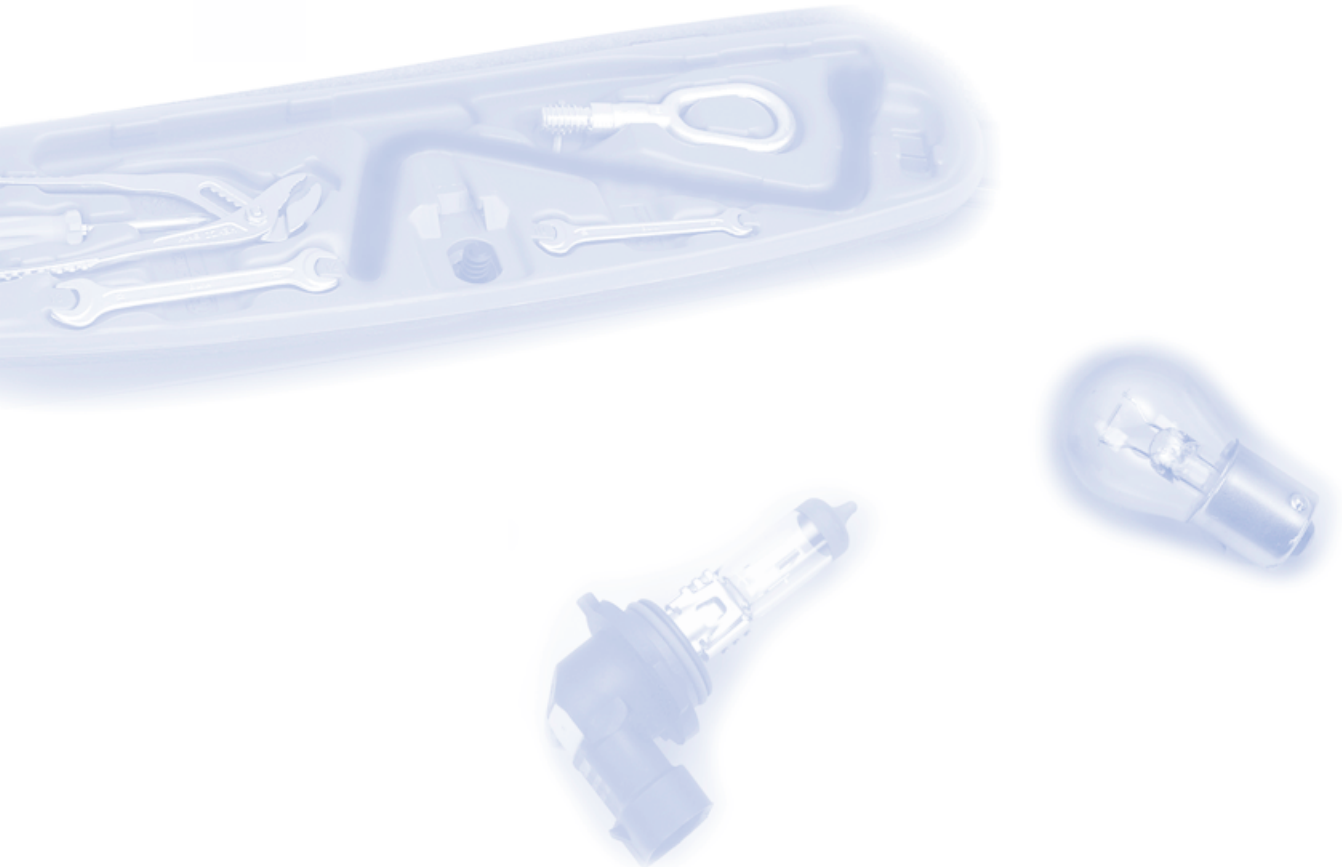
An illuminated indicator informs you of the need for service, not that you need to stop the vehicle. However, the systems should be checked by your BMW center at the earliest possible opportunity.

OBD interface socket

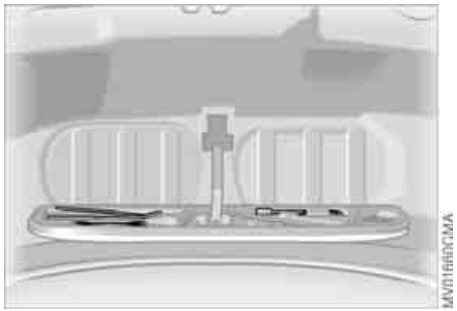
If the indicator blinks or flashes, this indicates a high level of engine misfire. Reduce speed and contact your nearest BMW center immediately. Severe engine misfiring for even a short period of time can seriously damage emission-control system components, especially the catalytic converter.

SERVICE ENGINE SOON warning lamp for Canadian models.

If the gas cap is not on tight enough, the OBD system can detect leaking vapor and the indicator will light up. If the gas cap is then tightened, the indicator will usually go out after a short period of time.◀



Onboard tool kit



The onboard tool kit is located in the luggage compartment lid.

To open, loosen the wing nut.

For storing the towing eyelet, refer to page 145.

Windshield wiper blades

1. Switch off the engine
2. Fold the wiper arm completely out from the windshield
3. Position the wiper blade at an angle and pull the release spring – see arrow
4. Fold the wiper blade down and unhook it toward the windshield
5. Pull the wiper blade past the wiper arm toward the top
6. Insert a new wiper blade and apply pressure until you hear it engage.

The lamps and bulbs make essential contributions to the safety of your vehicle. Therefore, proceed carefully when handling bulbs. BMW recommends that you have such work performed by your BMW center if you are not familiar with the procedures.

Do not touch the glass portion of a new bulb with your bare hands since even small amounts of impurities burn in to 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.

Before 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 observe this precaution could result in short circuits.
To prevent injuries and damage when changing a bulb, be sure to comply with any instructions provided by the bulb manufacturer.◀

Low beams and high beams

▷ Low beams: H7 bulb, 55 watts.
▷ 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 damaged.◀

Please contact a BMW center in case of a malfunction.

When cleaning the headlamps, please follow the instructions in the Caring for your vehicle brochure.

Parking lamps

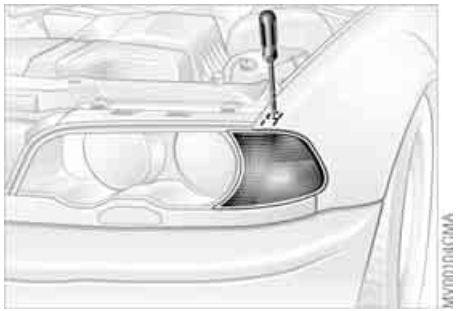
5 watt bulb

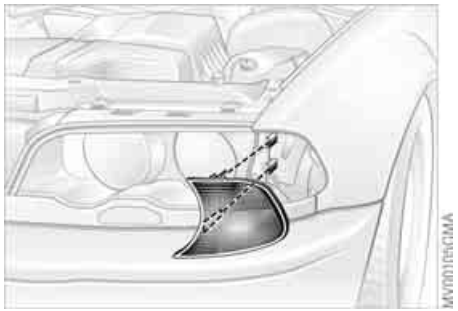
Please contact a BMW center in case of a malfunction.

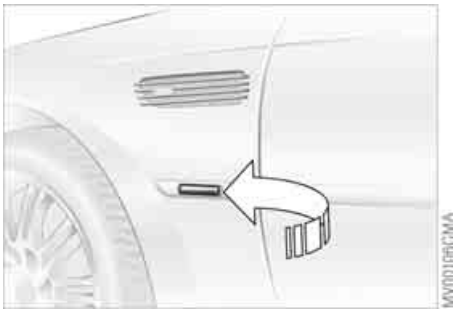
Xenon lamps*

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. If one of these bulbs should nevertheless fail, it is possible to continue driving with great caution using the fog lamps, provided traffic laws in your area do not prohibit this.

Because of the extremely high voltages involved, any work on the xenon lighting system, including bulb-changing, should be carried out by technically-qualified personnel only. Otherwise, there is a risk of fatal injury.◀







Front turn signal indicators

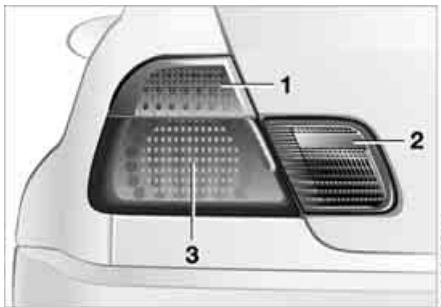
21 watt bulb

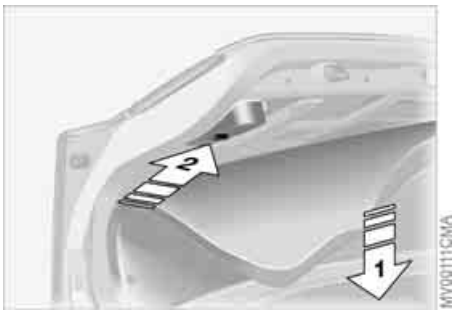
1. Extend a screwdriver through the upper opening, loosen and remove the screw
2. Remove lamp by pulling it out toward the front
3. Applying light pressure, turn the bulb to the left. Remove and exchange the bulb
4. Insert the 2 pins on the lamp into the guides on the vehicle
5. Slide in the lamp and screw the bulb in place through the upper opening.

Side turn signal indicators

5 watt bulb

1. Use finger pressure against the rear end of the lamp – see arrow – to press it forward for removal
2. Apply gentle pressure to the bulb while turning it to the left to remove.





Rear lamps

1 Turn signal indicator

2 Backup lamp
21 watt bulb

3 Tail lamp/brake lamp

All bulbs in the fender are designed using LED technology. Please contact a BMW center in case of a malfunction.◀

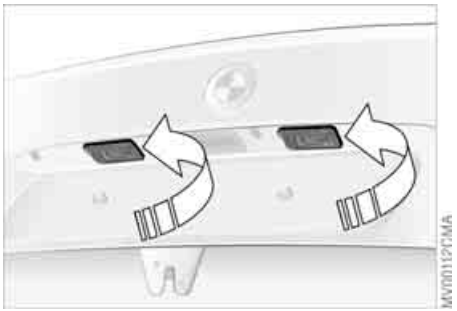
Bulbs in the luggage compartment lid

1. Using a screwdriver, loosen the clip
2. Fold the trim panel down – see arrow 1. Disengage the bulb holder – see 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 strip on the rear window.

Please contact a BMW center in case of a malfunction.



License plate lamps

5 watt bulb

1. Place a screwdriver in the slot and press toward the left to release the lens
2. Replace the bulb.

Repairing a flat tire

Precautions in case of a flat tire: Stop the vehicle as far as possible from passing traffic; switch on the hazard warning flashers.
Turn the steering wheel to the straight-ahead position and engage the steering lock. Shift into 1st or Reverse 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.
If necessary, set up your warning triangle or portable hazard warning lamp on the roadside at an appropriate distance from the rear of the vehicle. Comply with all local safety guidelines and regulations.
Comply with all safety guidelines and regulations.◀

M Mobility system

You will find an M Mobility system in the BMW M3 for repairing flat tires. With this system you can apply a sealing liquid to the inside of the tire that seals off the damaged point and then continue driving.

The M Mobility system makes transporting a spare wheel superfluous, thereby reducing the amount of weight you have to carry around.

Using the M Mobility system

To repair a flat tire using the M Mobility system, proceed as follows:

- ▷ Preparing the M Mobility system for use, refer to the next column
- ▷ Components of the M Mobility system, refer to page 138
- ▷ Filling with sealant, refer to page 138
- ▷ Distributing sealant, refer to page 139
- ▷ Inflating tire to correct pressure, refer to page 139.

Preparing the M Mobility system for use

The M Mobility system is located in the luggage compartment under the floor panel:

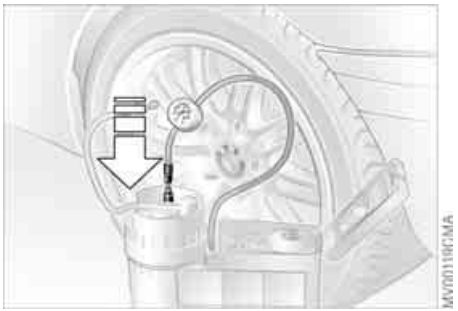
1. Lift the floor panel
2. Loosen the M Mobility system from its storage location.

Before you use the M Mobility system, read the warnings and danger notices on the device carefully.◀

If possible, leave the foreign object in the tire.

Pull off the sticker 5, refer to the second column below, for the speed limit and apply it to the steering wheel.

Please keep in mind that the fluids bottle in the system's sealant container has to be changed every 3 years by your BMW center, if the unit has not been used.◀



Components of the M Mobility system

1 On/Off switch

2 Connection hose with manometer for connecting the compressor with the sealant container or to connect the compressor to the wheel

3 Manometer for indicating the tire pressure

4 Connector hose from the sealant container to the wheel

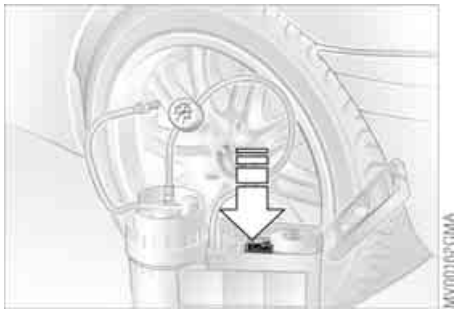
5 Sticker showing maximum speed

6 Plug and cable for the cigarette lighter socket

7 Protective gloves, not shown

Filling with sealant

1. Take off the round cover and take out hose 4. Unscrew the valve dust cap from the defective wheel and screw the hose to the valve. Keep the dust cap in a safe place
2. Flip open the cover and pull out the enclosed protective gloves. Take out hose 2 with the manometer and screw it to the terminal for the sealant container as shown in the illustration
3. Make sure that the system has been switched off, position 0.
   Take out plug 6 and insert it into the cigarette lighter socket in the passenger compartment – refer to page 100

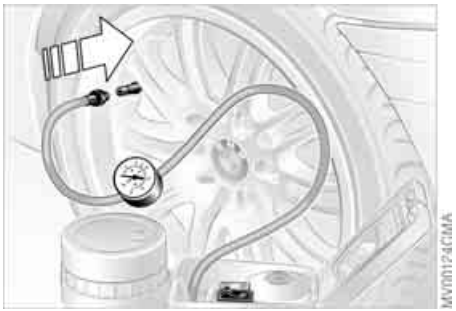


4. Make sure that the screw on the rear of the pressure gauge 3 is tightened down. Turn on the M Mobility system, position I, refer to illustration, and allow minutes to elapse, to let the sealant flow in. It does not matter afterward, what the tire's inflation pressure is
5. Turn the system off.
   Disconnect the connector hose from the sealant container and the wheel valve. Stow the M Mobility system in the luggage compartment.

Distributing the sealant

Right afterward, drive at least 1 1/4 miles / 2 km, so that the liquid sealant distributes evenly throughout the inside of the tire.

Do not exceed a maximum speed of 40 mph / 60 km/h.
If possible, keep the vehicle speed above 10 mph / 20 km/h. Stop in a suitable spot.◀



Inflating tire to correct pressure

1. Take out the hose with the pressure gauge and screw it onto the valve. Take the plug out and plug it into the cigarette lighter socket in the passenger compartment
2. Reset the air pressure to 29 psi/ 200 kilopascal, and:
   ▷ Increase tire pressure: switch on the M Mobility System, position I. Switch off the unit briefly to check the current tire pressure
   ▷ Decrease tire pressure: turn the screw on the back of the manometer. A valve located there will open

Even if the tire fails to hold the pressure, you should still carry out Step 3 before proceeding to drive the vehicle again, refer to Distributing the sealant for more information. Then repeat Steps 1 through 3.
The use of the M Mobility system may be ineffective if the damaged area in the tire is larger than approx. 1/8 in / 4 mm. Please consult the nearest BMW center if the tire cannot be temporarily repaired with the M Mobility system.◀

3. Unscrew the hose from the valve and stow the M Mobility system in the luggage compartment. Screw the dust cap onto the valve again.

Do not exceed the maximum speed limit described below, otherwise it could lead to accidents.◀

When you start driving again, do not exceed the permissible maximum speed of 45 mph / 80 km/h.

You will find corresponding instructions for using the M Mobility system on the device. Replace the defective tire as soon as possible and have the new wheel balanced. Reinitialize the Flat Tire Monitor, and refer to page 85 for further information. Have the M Mobility system refilled. Contact your BMW center for this.◀

Protect valve stems against dirt using screw-on dust caps. Dirty valve stems frequently lead to slow pressure loss.

Battery

Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.◀

Maintenance

The battery is completely maintenance-free. That means that the original battery acid will normally last for the service life of the battery under moderate climate conditions.

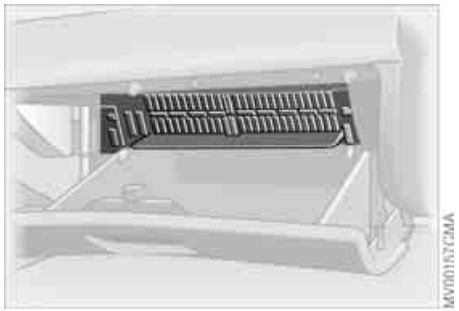
Please consult your BMW center whenever you have any questions concerning the battery.◀

Charging the battery

Charge the battery in the vehicle only when the engine is not running. Use the connections provided in the engine compartment. For information on the connections, see Jump-Starting, page 143.

Disposal

Return used batteries to a recycling point or your BMW center. Maintain the battery in an upright position for transport and storage. Secure the battery against tilting in transit.◀



You will find the fuses and information on their respective allocation in the glove compartment behind a panel with two snap clips.

Do not attempt to repair a blown fuse or replace it with a fuse having a different color or amperage rating. To do this could cause a fire in the vehicle resulting from a circuit overload.◀

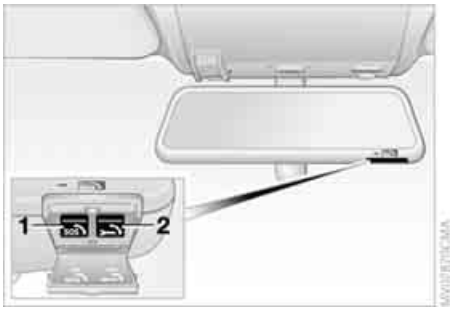
The BMW Group's Mobile Service offers you 24-hour assistance in the event of a breakdown, even on weekends and holidays.

The telephone numbers of the Mobile Service control center in your country are listed in the BMW Dealer Directory.

If your vehicle has the necessary equipment, you can contact the Mobile Service or issue an emergency call using buttons in the interior rearview mirror.

When an emergency call is initiated, a telephone connection is established with the general emergency call center.

In vehicles with activated BMW Assist function, a telephone connection is set up to the BMW Assist emergency call center. If the current location of your vehicle can be determined, this location is transmitted to the BMW Assist emergency call center.



Fold down the cover.

1 Emergency call

2 Mobile Service

Requirements for initiating an emergency call or contacting Mobile Service:

- ▷ The car phone is registered with a mobile network
- ▷ The emergency call system is operational.

Initiating an emergency call*

Press button 1 for at least 2 seconds.

The indicator lamp above the buttons lights up. As soon as a telephone connection has been set up to the main emergency call center, the indicator lamp flashes.

If the indicator lamp is flashing but you cannot hear the emergency call center, you may still be heard by the emergency call center.

For technical reasons, the emergency call function cannot be guaranteed in certain unfavorable conditions.◀

If certain requirements are met, an emergency call is automatically initiated after a serious accident. The automatic emergency call will not be hindered by pressing the button.

Mobile Service*

To establish contact with the BMW Group's Mobile Service:

Press button 2 for at least 2 seconds.

The indicator lamp above the buttons lights up. As soon as a telephone connection has been set up with the Mobile Service, the indicator lamp flashes.

Depending on the country you are in, your vehicle's current location will also be transmitted if your vehicle is equipped with an activated BMW Assist function.

Jump-starting

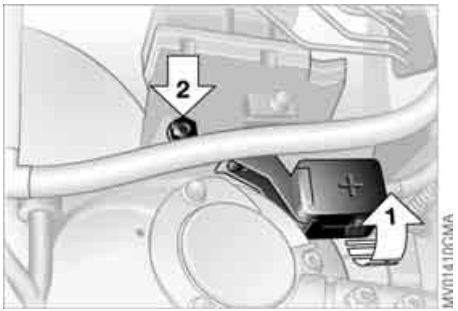
When your battery is discharged, you can use two jumper cables to start your vehicle with power from the battery in a second vehicle. You can also use the same method to help start another vehicle. Use only jumper cables with fully insulated handles on the terminal clamps.

Do not touch high-voltage wiring and cables on a running engine. Contact with components carrying high voltage can be harmful or fatal. Carefully observe the following instructions to avoid personal injury and/or damage to one or both vehicles.◀

Preparations

1. Check whether the battery of the support vehicle has 12 volts and approximately the same capacity – measured in Ah. This information is provided on the battery
2. Stop the engine of the support vehicle
3. Switch off all electrical components in both vehicles.

Make absolutely certain that there is no contact between the bodywork of the two vehicles, otherwise there is a short circuit hazard.◀



Connecting the jumper cables

Always adhere to this sequence when connecting jumper cables; failure to observe this procedure can lead to sparks at the battery terminals and pose an injury hazard.◀

The auxiliary jump-starting terminal located in your BMW's engine compartment acts as the positive battery terminal. Refer to the engine compartment overview on page 120. The cover of this auxiliary terminal is marked with a +.

1. Open the cover of the BMW auxiliary jump-starting terminal. Do so by pulling the tab – see arrow 1
2. Connect one terminal clamp of the plus/+ jumper cable to the positive terminal of the battery or to an auxiliary jump-starting terminal of the support vehicle
3. Connect the second terminal clamp of the plus/+ jumper cable to the positive terminal of the battery or to an auxiliary jump-starting terminal of the vehicle to be started
4. Your BMW is equipped with a special nut – see arrow 2 – to serve as the ground or negative terminal. Attach a terminal clamp of the minus/– jumper cable to the negative terminal of the support vehicle's battery or to a suitable ground on its engine or bodywork
5. Attach the second terminal clamp of the minus/– jumper cable to the negative terminal of the battery or to a suitable ground on the engine or bodywork of the vehicle to be started.

Starting the engine

1. Start the engine of the support vehicle and let it run for several minutes at a slightly elevated engine idle speed

Jump-starting

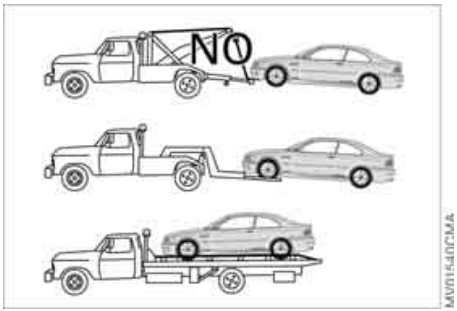
2. Start the engine of the other vehicle as usual.
   If the first start attempt is not successful, wait a few minutes before another attempt in order to allow the discharged battery to recharge
3. Allow the engines to run for several minutes
4. Disconnect the jumper cables in reverse sequence.

Have the battery recharged at your BMW center as required.

Do not use spray starter fluids to start the engine.◀

Towing the vehicle

Always observe all applicable towing laws and regulations.◀



Towing with a commercial tow truck

▷ Use wheel lift or flat bed carrier
▷ Do not tow with sling-type equipment.

Never allow passengers to ride in a towed vehicle for any reason. Never attach tie-down hooks, chains, straps, or tow hooks to tie rods, control arms, or any other part of the vehicle suspension, as severe damage to these components will occur, possibly leading to accidents.◀

Towing the vehicle with the front axle raised

Vehicles with sequential manual gearbox SMG:

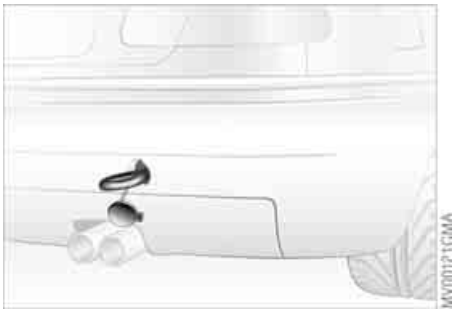
With the ignition on, move the selector lever to position N, then turn off the ignition.

Towing eyelet

The screw-in towing eyelet is stored in the luggage compartment under the floor mat and must remain in the vehicle. It can be attached at the front or rear of the vehicle.

The towing eyelet should not be used to pull a vehicle out of deep snow, mud, sand, etc.

Comply with all applicable towing laws and regulations at all times.



Access to tow sockets

Front:

Press out the cover panel with a screwdriver at the top of the recess.

Rear:

Press out the cover panel with a screwdriver at the top of the recess.

Use only the towing eyelet supplied with the vehicle and screw it in firmly until it stops. Use the towing eyelet for towing on paved roads only. If you do not follow these instructions, the towing eyelet could be torn out and vehicle damage could occur.
Do not tow the vehicle by any components of the running gear, or lash them down in any way. If you do, the components could be damaged, possibly leading to accidents.◀

Keep the vehicles in line and avoid towing at an offset angle. Ensure that the towing strap connecting the two vehicles is tight, with no slack, before starting off.◀

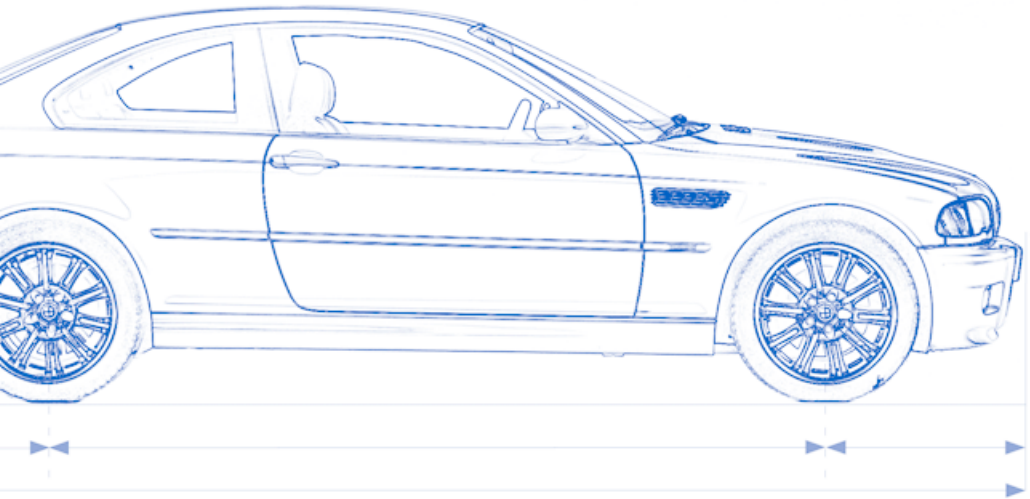
Use only a nylon towing strap to tow the vehicle, since the inherent resilience of this material helps protect both vehicles from sudden jerking movements.

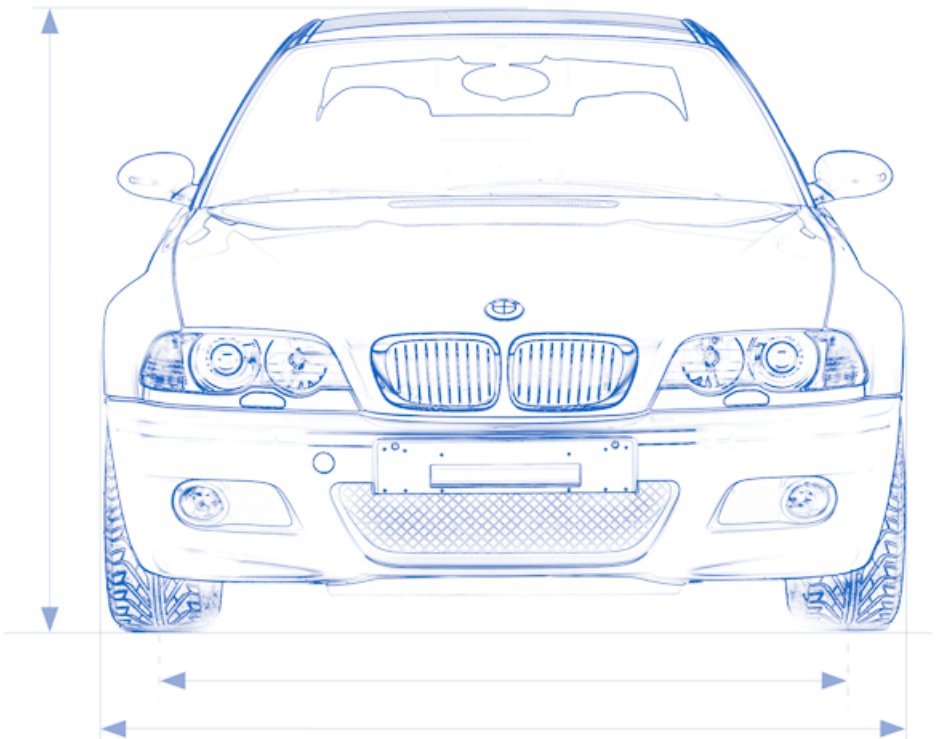
The towed vehicle should always be the lighter of the two vehicles. If this is not the case, it will not be possible to control vehicle handling.◀

Tow-starting

For instructions on jump-starting, refer to page 143.

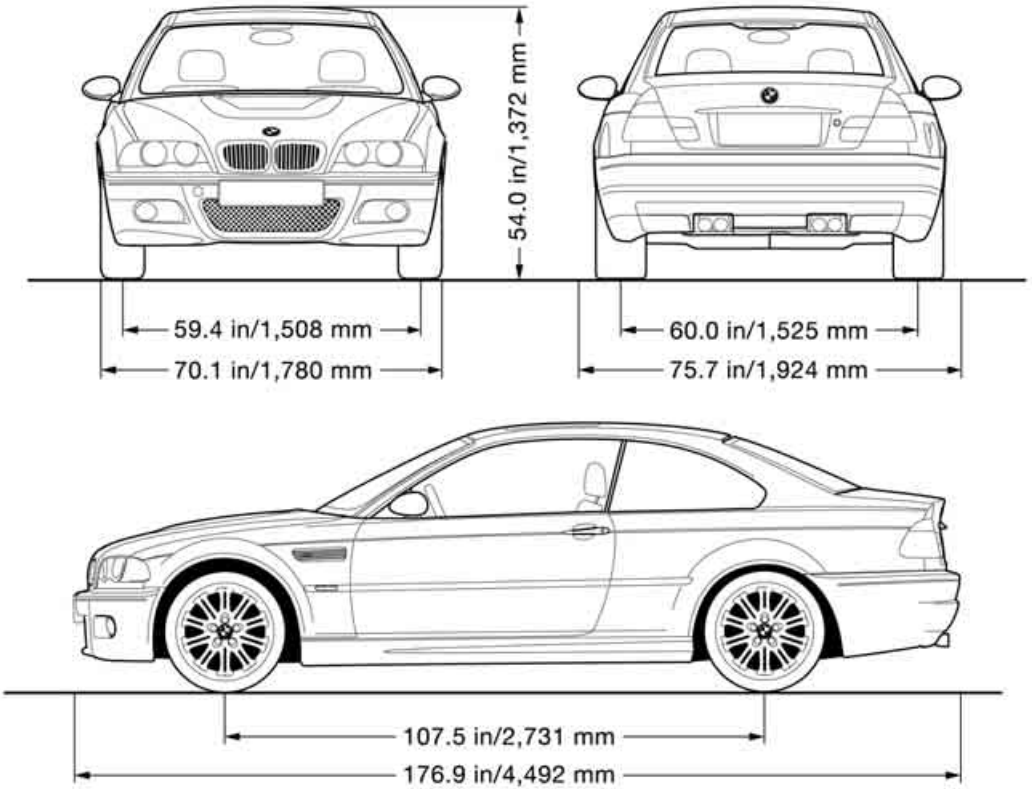
Never attempt to use your vehicle to push another vehicle, since damage to the energy-absorbing bumpers could result.





Engine data

Displacement Number of cylinders	cu in/cm³	198.1/3,246 6
Max. power output at engine speed	hp rpm	333 7,900
Maximum torque at engine speed	lb ft/Nm rpm	262/355 4,900
Compression ratio	ε	11.5
Stroke Bore	in/mm in/mm	3.58/91 3.43/87
Fuel mixture preparation		Digital electronic engine-management system



Minimum turning circle dia.: 36.1 feet/11.0 m.

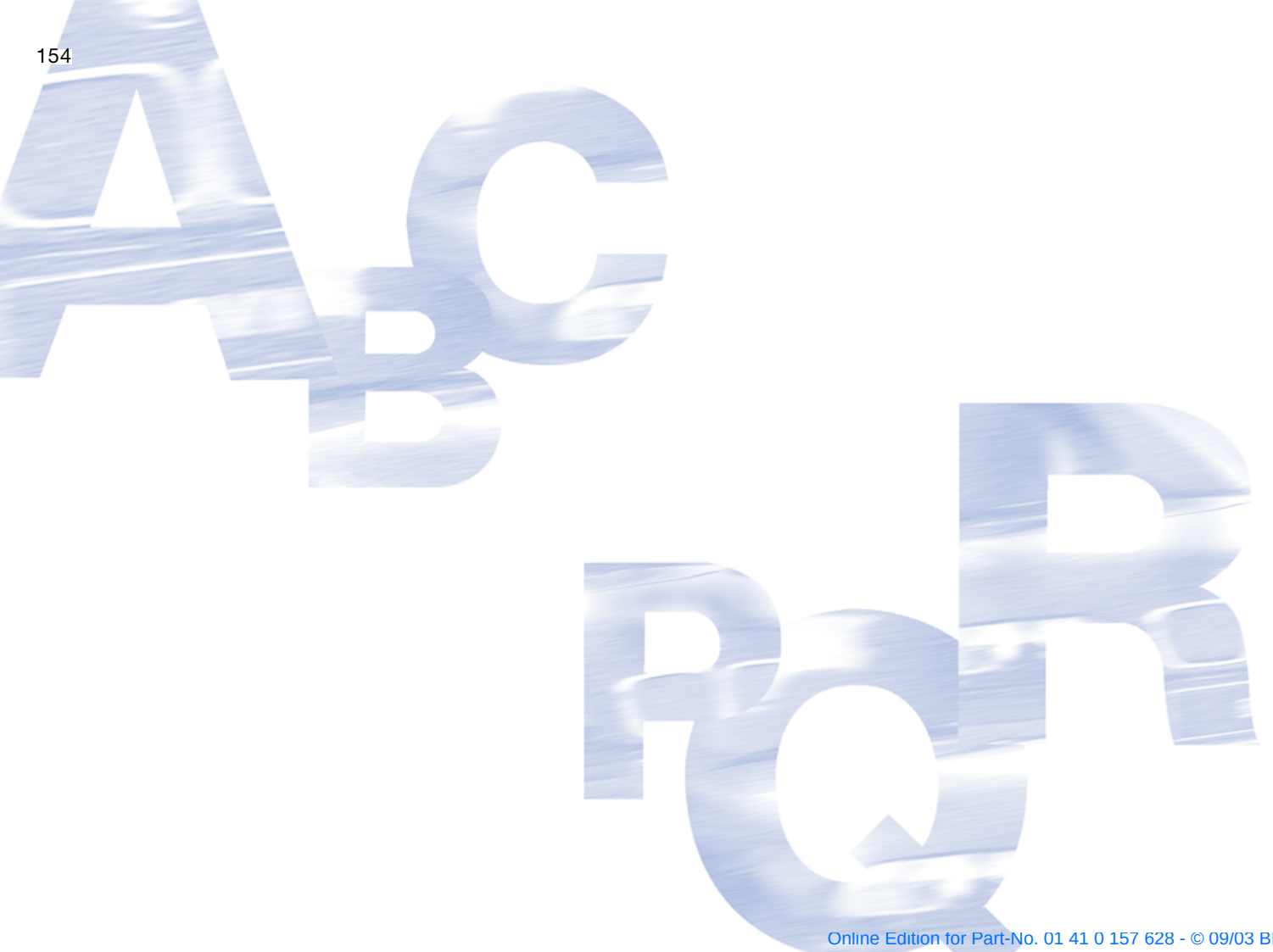
Weights

Curb weight	lbs/kg	3,415/1,549
Approved gross vehicle weight	lbs/kg	4,453/2,020
Approved front axle load	lbs/kg	2,138/970
Approved rear axle load	lbs/kg	2,535/1,150
Approved roof load capacity	lbs/kg	165/75
Luggage compartment capacity	cu ft/l	14.5/410

Approved axle loads and approved gross vehicle weight must never be exceeded.

Capacities

			Notes
Fuel tank Reserve	gal./liters gal./liters	approx. 16.6/approx. 63 approx. 2.1/approx. 8	Fuel specification, refer to page 25
Windshield washer system/ Headlamp cleaning system	quarts/liters	approx. 5.6/approx. 5.3	Specifications, refer to page 122
Engine with oil filter change	quarts/liters	approx. 5.8/approx. 5.5	Specifications, refer to page 123
Manual transmission	quarts/liters	approx. 1.9/approx. 1.8	Oil change during running-in check and during each inspection II
Differential	quarts/liters	approx. 1.2/approx. 1.1	Oil change during running-in check and during each inspection II



Everything from A to Z

Everything from A to Z

X

Refueling

BMW recommends Castrol

To ensure that you always have convenient access to all essential information when you stop for fuel, we recommend that you take the time to fill out the adjoining chart by entering the data that apply to your vehicle. Consult the index for individual specifications.

Fuel

Designation	

Please enter your preferred fuel here.

Engine oil

Quality	

The oil quantity between the two marks on the dipstick is approx.
1.4 US quarts/1.3 liters.

Tire inflation pressure

	Summer tires		Winter tires	
	front	rear	front	rear
Up to 4 persons				
5 persons or 4 plus luggage				

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