

Owner's Manual



BMW AG

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

“REPORTING SAFETY DEFECTS

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, Inc., P.O. Box 1227, Westwood, New Jersey 07 675-1227, Telephone (201) 307-4000.**

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

To contact NHTSA, you may either call the **Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, DC area) or write to: NHTSA, US Department of Transportation, Washington, DC 20 590.** You can also obtain other information about motor vehicle safety from the Hotline.”

Warning:

Use unleaded gasoline only. Fuels containing up to and including 10% Ethanol or other oxygenates with up to 2.8% oxygen by weight (i. e. 15% MTBE or 3% Methanol plus an equivalent amount of co-solvent) will not void the applicable warranties respecting defects in materials or workmanship.

Only use fuels advertised to have deposit control additives, which keep intake valves and intake system clean or which "meet BMW standards of intake valve cleanliness" for either "up to 50,000 miles" or "for unlimited mileage". If such fuels are not available in your area, consult your BMW dealer, who can recommend a fuel additive that will provide sufficient detergency to assure proper engine cleanliness, when used in accordance with product instructions.

Field experience has shown that there are significant differences in fuel quality (i. e. volatility, composition, additives, etc.) among gasolines offered for sale in the United States. 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.

If driveability problems occur and are suspected to result from the fuel being used, it is recommended that you switch to a fuel known to be of good quality.

Failure to comply with these recommendations may result in unscheduled maintenance.

Obey pertinent safety rules when you are handling gasoline.

Important safety information!

For your own safety, use genuine parts and accessories approved by BMW.

When you use accessories tested and approved by BMW and Original BMW Parts, you have the guarantee that their suitability for your vehicle has been thoroughly tested by BMW.

BMW warrants these parts to be free from defects in material and workmanship.

BMW will not accept any liability for any spare parts and accessories not approved by BMW.

BMW cannot test every product from other manufacturers to verify if it can be used on a BMW safely and without risk to either the vehicle, its operation, or its occupants.

Original BMW Parts, BMW Accessories and other products approved by BMW, together with professional advice on using these items, are available from all BMW dealers.

Installation of non-approved aftermarket accessories such as alarms, radios, amplifiers, radar detectors, telephones, wheels, springs, brake dust shields etc. may cause extensive damage to the vehicle, impact its safety and affect the validity of the BMW New Vehicle Limited Warranty. Please see your BMW dealer for further information.

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

740i
740iL
750iL



BMW AG

In the interests of continuing technical development, we reserve the right to modify designs, equipment and accessories.

Dimensions, weights and performance data quoted in this manual are to the tolerances established by the German Institute for Industrial Standards (DIN).

Claims based on data, statements, descriptions or illustrations, errors or omissions in this Owner's Manual will not be entertained.

Please note that any discrepancies between your BMW and the details given here may be due to the equipment specifications offered on a particular model or the items ordered with the car.

Descriptions marked with an asterisk (*) are specification-related and only included as standard on certain models or national-market versions, or available as special equipment or an accessory.

This manual applies to U. S. and Canadian models only.

Some equipment shown in this manual will pertain only to one model. In Canada this manual is also available in French. To obtain a copy, contact your BMW dealer.

For operating instructions of options not listed in this Owner's Manual, please refer to the Operating Instructions or Owner's Manual for those options.

Any modification to the car and its equipment may effect its operational reliability, vehicle safety and resale value.

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Congratulations on your choice of a BMW

The better acquainted you are with your car, the more pleasurable it will be to drive it. Therefore, we request that you heed the following advice:

In this Owner's Manual you will find important information concerning operating instructions, vehicle care, maintenance and technical details for your new BMW. Please read it carefully before taking your first drive, so that you are fully familiar with the technical advantages of your BMW. A comprehensive index will aid you in finding more detailed information on the various features and operations of your new car.

Please keep in mind that regular care and maintenance are necessary for the operational safety of your vehicle as well as to maintain its resale value.

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

This manual is supplemented by a Service Warranty Information booklet*. We recommend that you read these publication thoroughly.

Your BMW is covered by the following warranties:

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

Detailed information about these warranties is listed in the Service Warranty Information booklet.

We wish you many safe and pleasant journeys.

BMW AG

* US models only

Energy-conscious driving:

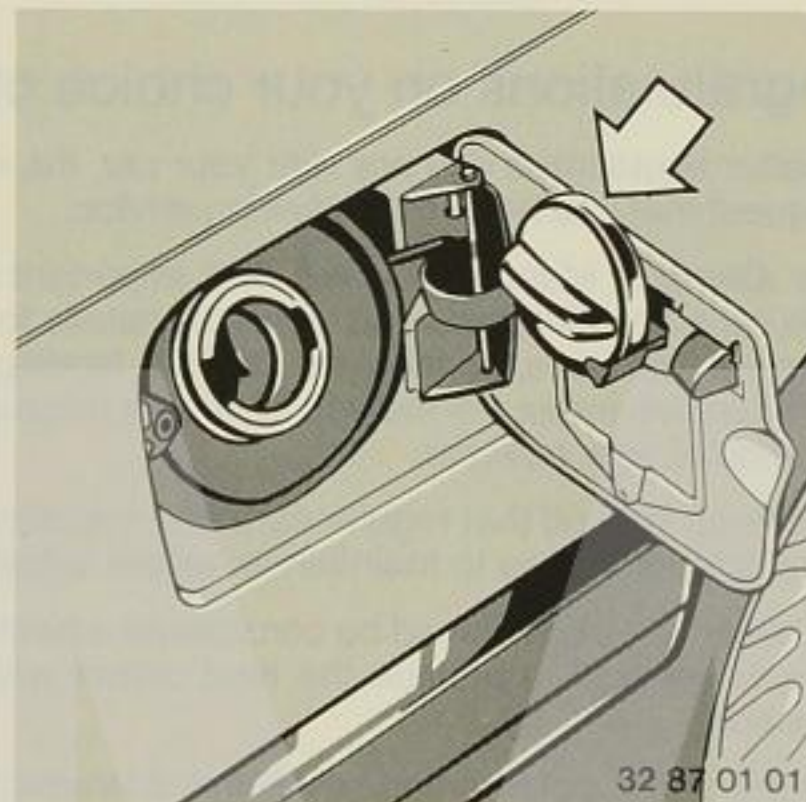
- Fuel economy is mainly dependent on your style of driving.
- Do not warm up the engine to operating temperature at idle speed and never leave the engine idling for long periods.
- Never drive up to maximum speed in 1st gear – use it only for starting off.
- Shift up to a higher gear as soon as conditions permit and try to drive in the higher and more economical 3rd, 4th or 5th gear.
- Avoid driving at full throttle for long periods.
- Avoid carrying unnecessary weight.
- Check tire pressures regularly.

Besides:

Energy-conscious driving reduces exhaust gas emissions and noise.

Items to check regularly:

- Tire pressures (including spare tire), every two weeks, see page 106.
- Engine oil level, see page 64.
- Battery electrolyte level, filling up, see page 66.
- Coolant level, see page 65.
- Brake fluid level, see page 65.
- Light system, see page 73.
- Windshield washer fluid level, see pages 62, 63.

**Required fuel quality****BMW 740i, 740iL**

Unleaded premium gasoline only
(90 AKI or 95 RON)

BMW 750iL

Unleaded gasoline only
(87 AKI or 91 RON)

Filling of the fuel tank

Opening: Turn the fuel filler cap counter-clockwise and take it off.

Closing: Turn the cap clockwise to the stop (bayonet fitting).

Fuel filler

The fuel filler neck is equipped with a leaded fuel restrictor and a check valve. The restrictor prevents the insertion of fuel filler nozzles not designed for lead free fuel.

The check valve prevents the fuel vapors from escaping from the fuel tank.

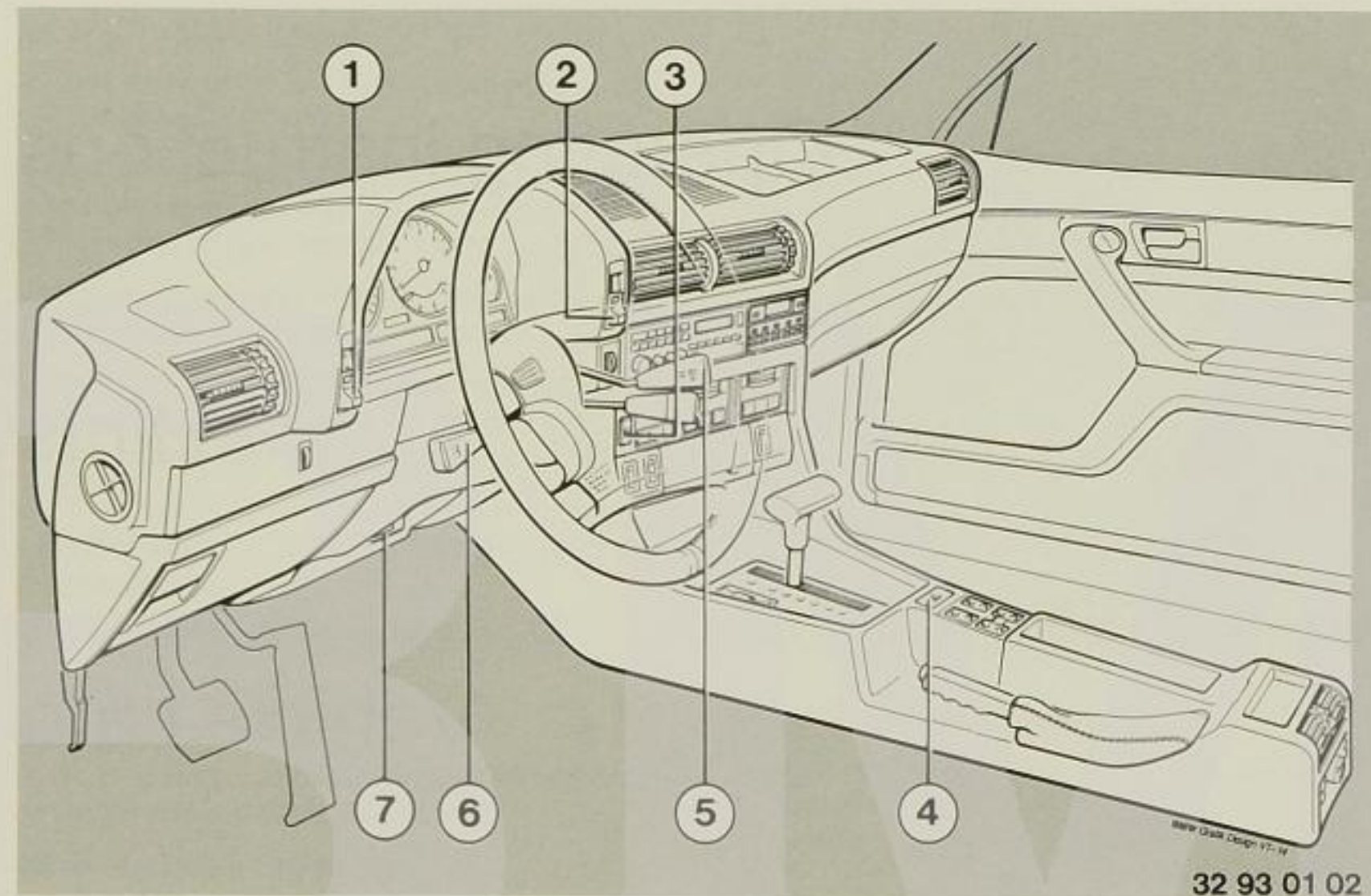
Operating instructions

Hints

Vehicle care

Technical data

Index



The cockpit at a glance

- 1 – Headlight switch
- 2 – Fog light switch
- 3 – Pushbutton for rear window defogger
- 4 – Pushbutton for hazard warning flasher
- 5 – Windshield wiper/washer lever

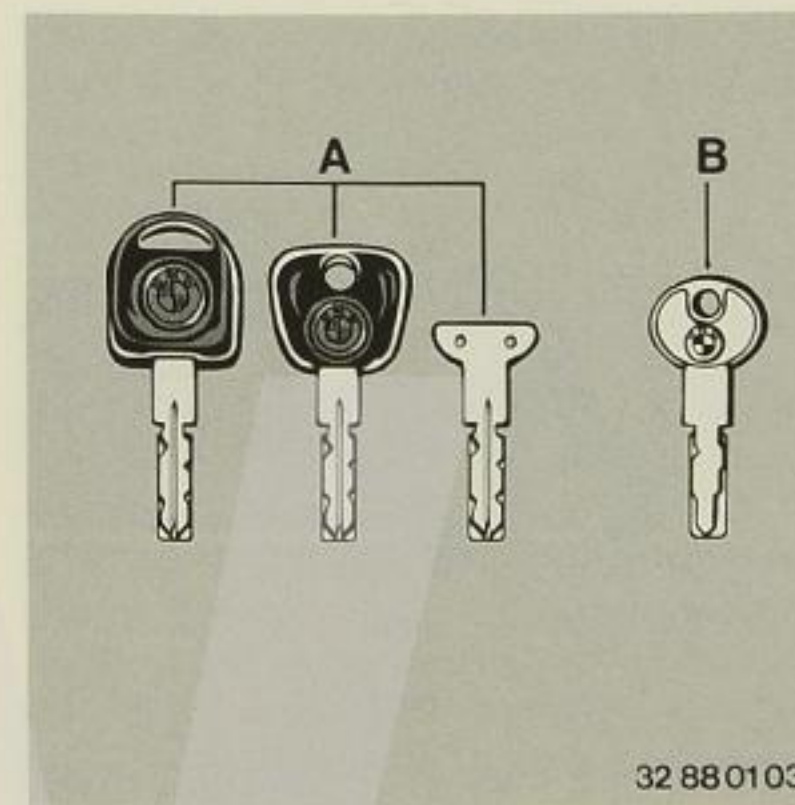
Page

- 24 6 – Steering column lever for turn indicators, headlight dimmer, headlight flashing.
- 31 7 – Steering column extension lock lever (only on vehicles without Airbag)
- 31
- 25

Page

24

15



Keys

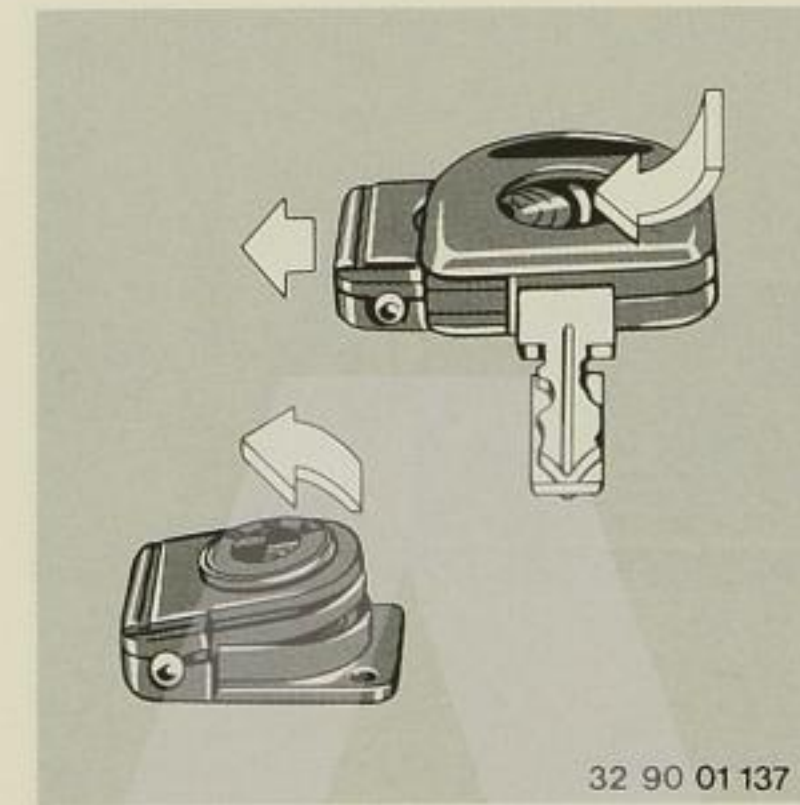
A. Master key

- Key with light and battery: press button to switch on light.
- Duplicate master key.
- Spare master key with extra-small head, to be kept in a wallet or safe place.

B. Key for doors and ignition:

Does not fit trunk or glove box.

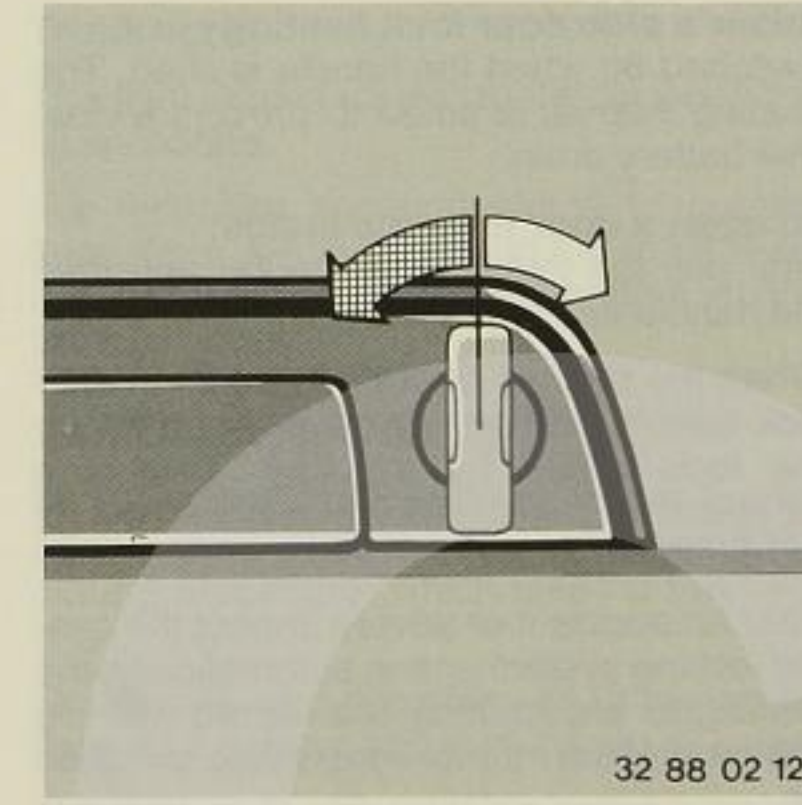
The key number on the self-adhesive label is required by your BMW dealer to obtain duplicate keys; keep it in a safe place to avoid theft.



Master key with battery light

Replace the battery when the light becomes dim.

Caution: On discharged batteries acid may leak out which could lead to potential damage. Use only batteries of the specified type. Avoid environmental pollution when disposing of old batteries.



Central locking system

← Unlocking → Locking

Whenever the door locks or the trunk lock is operated or the interior lock button on the driver's door is lifted or pressed down, the doors, the trunk lid and the fuel filler flap locks are operated at the same time.

If the windows or the sunroof have been left open with a convenience function, they may be closed by holding the key in the lock position until they have closed.

To open a door from the outside:

Lift up the handle. At the same time the interior light will come on (after the third operation there will be an extended delay).

Driver's side door lock heating

Switched on when the handle is lifted. The heating interval is timed to prevent excessive battery drain.

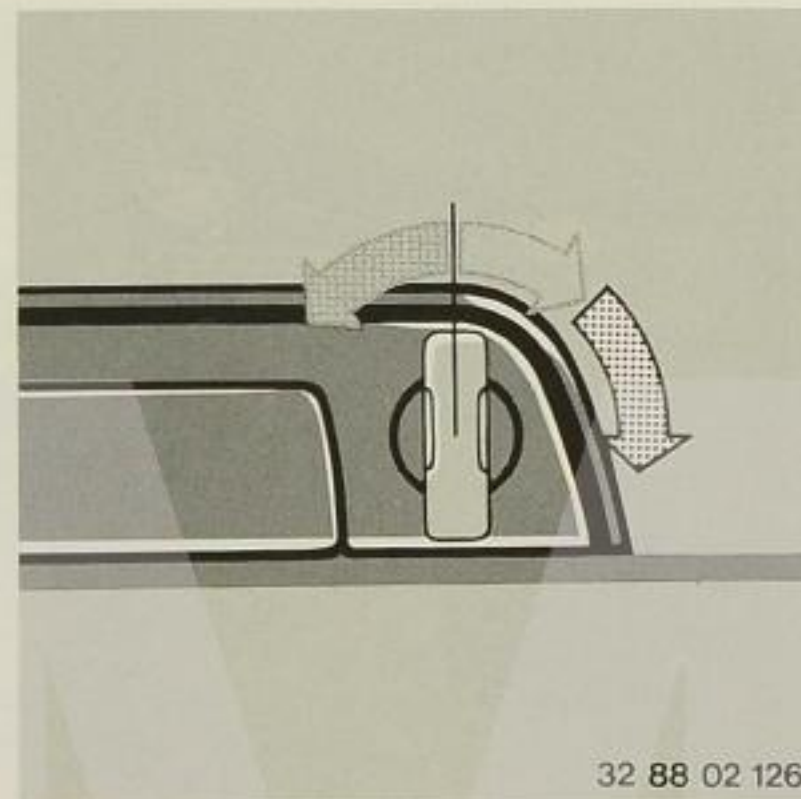
To open a door from the inside:

First pull the interior lock button and then the handle above the armrest.

When the driver's door is open, its interior lock button can neither be pressed in nor the lock turned by the key. This is a safeguard against locking yourself out of the car accidentally.

After an accident or severe impact the central locking system opens automatically, the headlights are flashing, the hazard warning flasher and the interior light is also switched on.

Note: Children left in the car could lock the doors accidentally from the inside. To avoid this, make a point of removing the ignition key and taking it with you, so that the door can always be opened from the outside.



32 88 02 126

Double locking

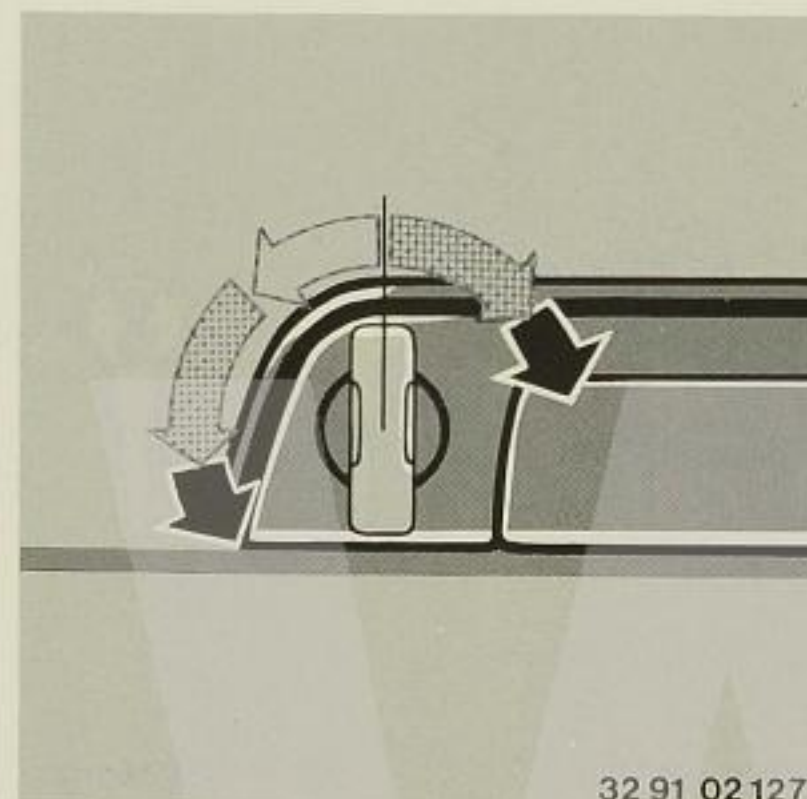
To provide further protection, a double lock feature is provided. This works by locking all doors in such a manner that they cannot be unlocked without a key. This feature can only be activated and deactivated with a key from the outside of the front doors.

To activate, turn the key in the normal locking direction, past a light detent, until the key is horizontal. At the same time a immobilising device is activated and the engine cannot be started.

Let the key return to the vertical position and withdraw.

Unlocking is performed in the normal manner.

Note: Do not engage locking position with passengers in the car. Without the master key for the driver's door lock the doors positively cannot be opened either from inside or from outside.



32 91 02 127

Manual locking and unlocking in an emergency

In the event of an electrical system failure (i.e. discharged battery), the car may still be unlocked or locked.

To unlock: Turn the key of the passenger door past the normal unlock position as illustrated, while raising the door handle. Release handle and lift again to open door.

To lock: If necessary push down the interior lock buttons of the driver's and rear doors, and lock the passenger door by turning the key past the double lock position as illustrated.

When utilizing either of these functions, a slight resistance will be noted before the key goes to the emergency position.

The key can only be removed from the door locks when in the vertical position. If the emergency override system is used, the door lock system must be resynchronized after the electrical system is repaired.

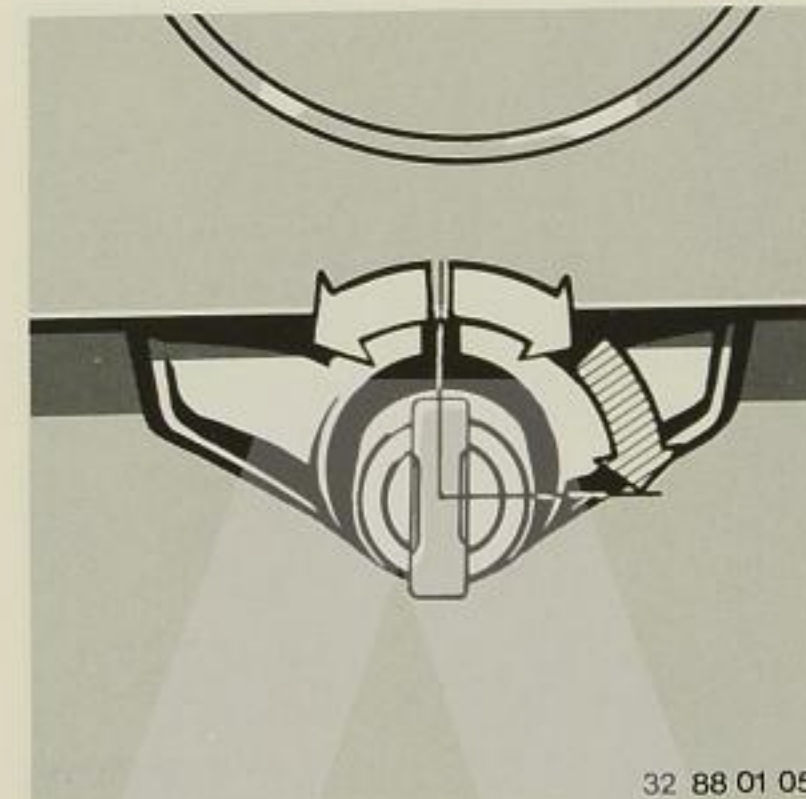
To do this, close all doors and lock the drivers' door as if you are utilizing the emergency override system. All the door buttons should operate electrically at this time. Unlock the door in the normal manner. If one or more doors do not operate in synchronization, repeat the procedure.

If for some reason the door locks get out of synchronization, the above procedure may also be used to correct the situation.

Some examples of how door locks may get out of synchronization are:

If locking is attempted and the door being locked with the key is ajar.

If the door handle on a front door is raised prior to the interior lock button coming up during the unlocking procedure.



32 88 01 05

Trunk

Locking or unlocking only with the master key.

Central locking system
(not with activated double locking system)

Securing trunk
(withdraw master key in horizontal position)

To limit the access to the trunk. When leaving the vehicle with a valet parking service, turn the master key clockwise and withdraw it in horizontal position.

Trunk light

The light comes on automatically when the lid is opened.

For mounting securing straps to prevent items from rolling around in the trunk there are mounting eyes on the bottom of the trunk.

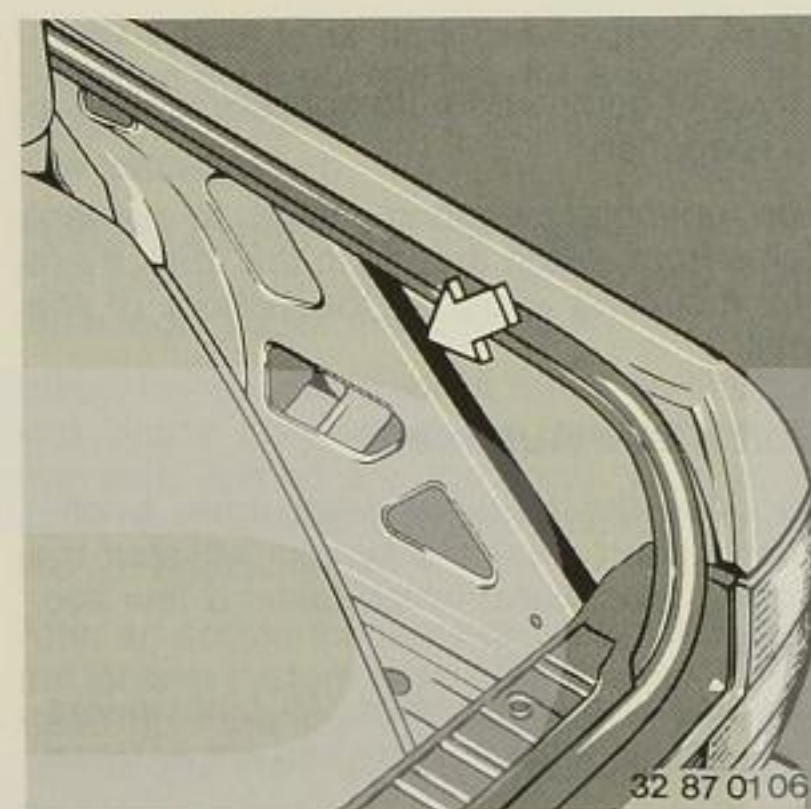
Soft Close Automatic *

To close the trunk lid push down briefly. After a short delay the system will start the closing procedure, which takes a few seconds.

Opening is also assisted. All other operations on the doors and trunk lid are as usual.

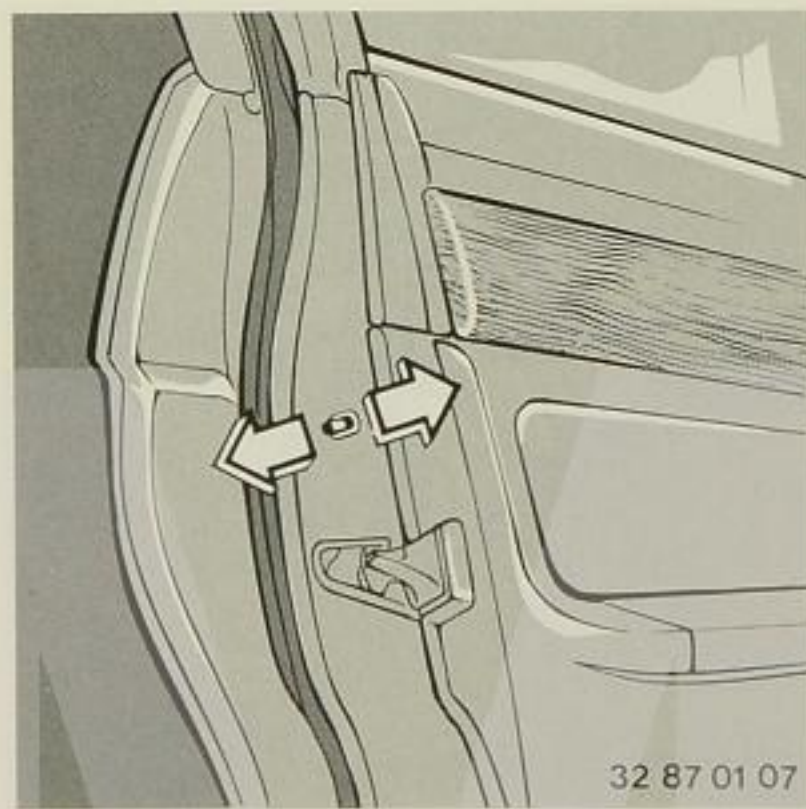
The system is only working below a speed of 2 mph (approx. 3 km/h).

Warning:
When closing the trunk lid ensure that no fingers are trapped.

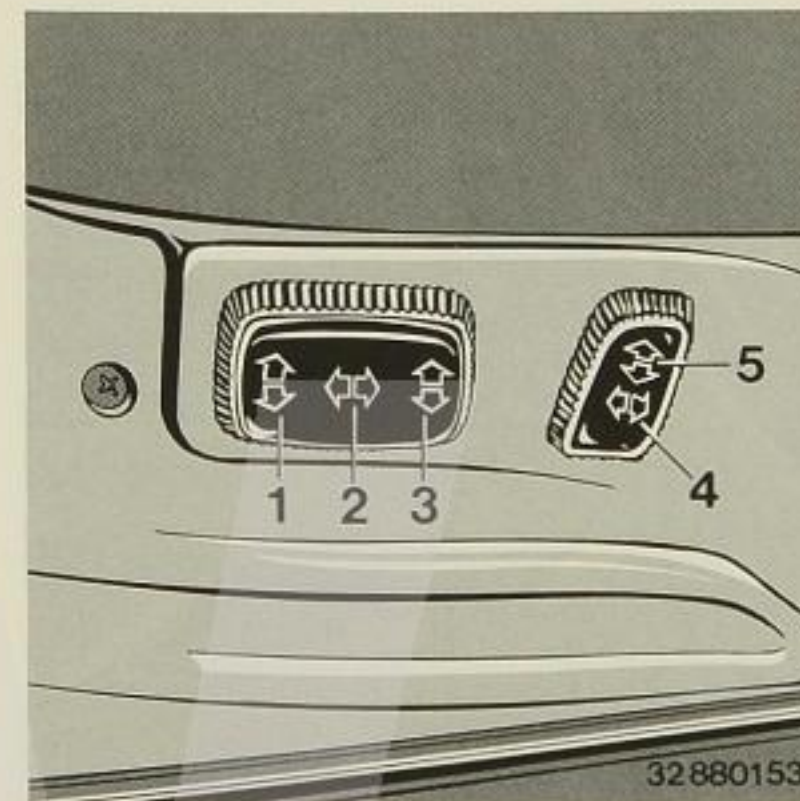


Opening of the fuel filler flap in case of a failure of the central locking system:

- Lift the floor mat on the right
- Remove trim at the rear and right
- Pull lock bar back.



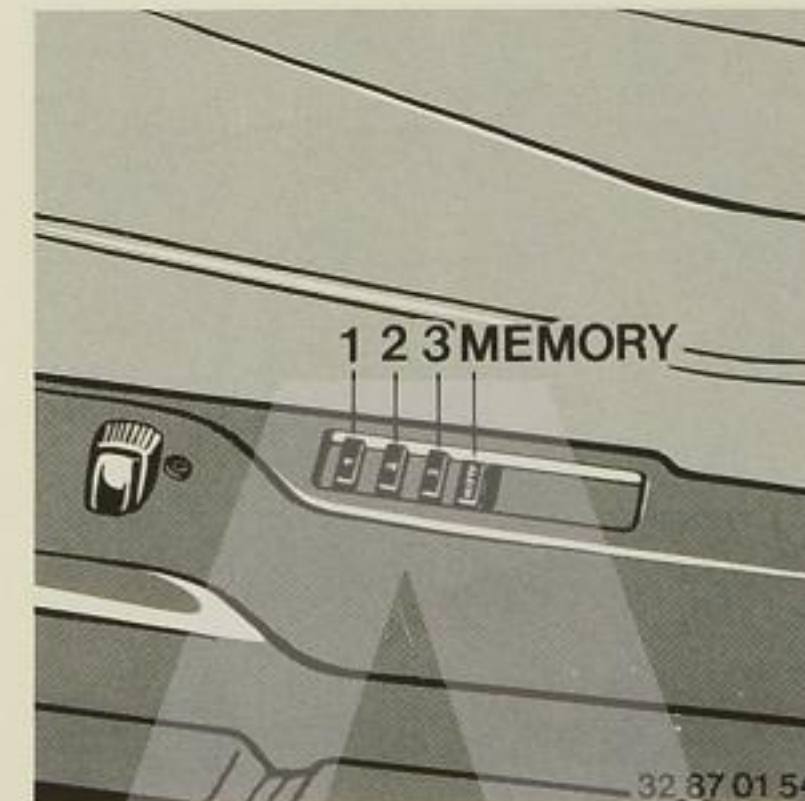
Childproof safety device
for the rear doors located next to the door catch.
Slide catch lever pushed to the inner side of the door: door can be opened from outside **but not from inside**.



Seats (electrically operated)

Front seat adjustment

- 1 – raise/lower front of seat
- 2 – move seat forward/backward
- 3 – raise/lower rear of seat
- 4 – raise/lower backrest angle
- 5 – raise/lower headrest



Memory* for seat, mirror and steering wheel adjustment

3 different seat, mirror (both outside mirrors) and steering wheel positions can be stored in memory and recalled.

Programming:

(In ignition key position 1 and 2)

- Select the desired seat, mirror and steering wheel position by means of the appropriate switch.
- Press MEMORY button (button will be illuminated).
- Press button 1, 2 or 3. Positions are now stored in memory. Indicator light goes out.

To recall:

Press and hold the desired button 1, 2 or 3 until the adjustment has finished.
Press the appropriate button 1, 2 or 3 for a short time; automatic movement is stopped immediately when pressing either the seat – respectively mirror adjustment switches or the memory button.

If the driver's door is closed and the ignition key is either removed or in position 0 or 2 – press the desired button 1, 2 or 3 until the adjustment has finished.

Outside mirror changeover switch (page 20) placed in position "driver's side": By selecting the reverse gear of the transmission, the outside mirror on the passenger's side is tilted down slightly to make it possible to see the lower part of the vehicle when parking.

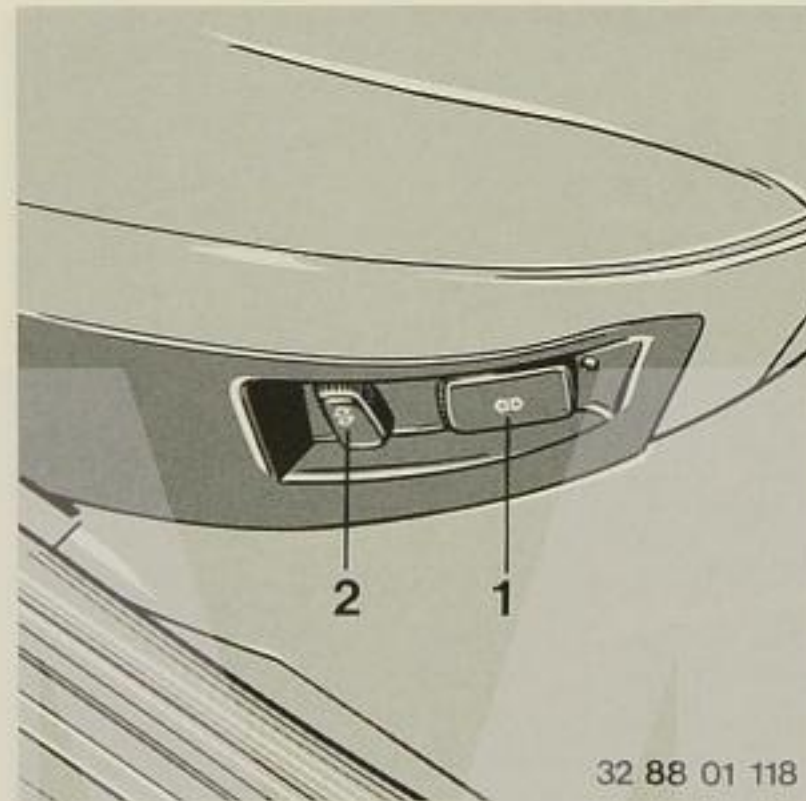
This function can be overridden by placing the changeover switch in "Passenger's side" position.

Warning:

Do not adjust seat position while driving. The seat may move unexpectedly which could cause sudden loss of vehicle control and constitutes an accident risk.

Passengers should not ride in a moving vehicle with the backrest reclined for the following reasons.

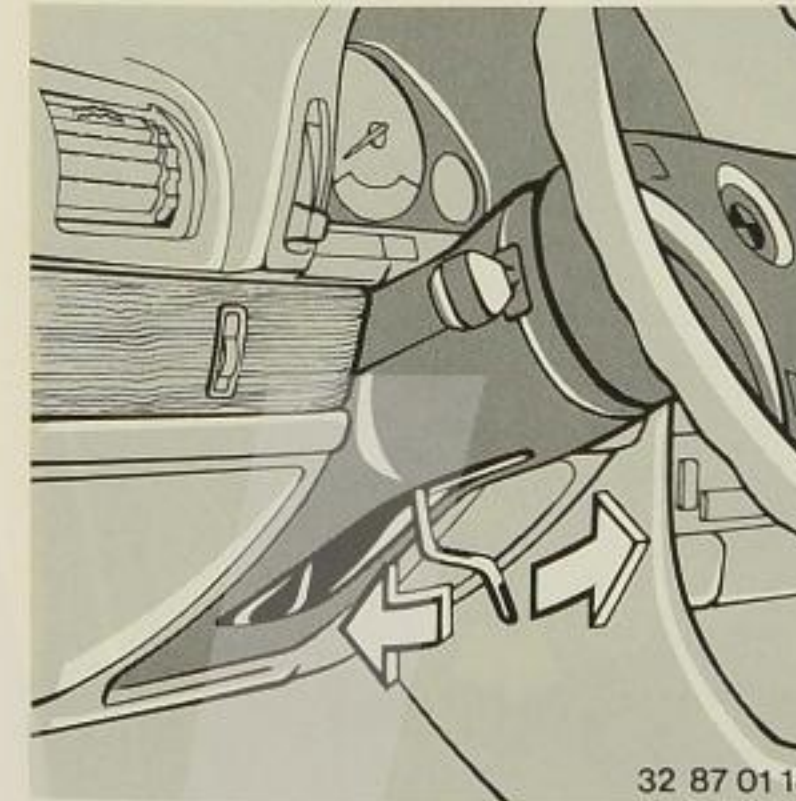
In a frontal collision the lap belt may slide past the hips and apply restraint forces directly to the abdomen, creating a risk of serious injury. The shoulder belt cannot immediately restrain your upper torso if it does not rest firmly against your body.



Rear seat adjustment *

- 1 – Move switch to adjust the seat cushion forward/backward or change the inclination of the backrest.
- 2 – The headrest raises automatically when the seatbelt lock has been engaged.

To adjust the headrest for your appropriate position move switch up or down.

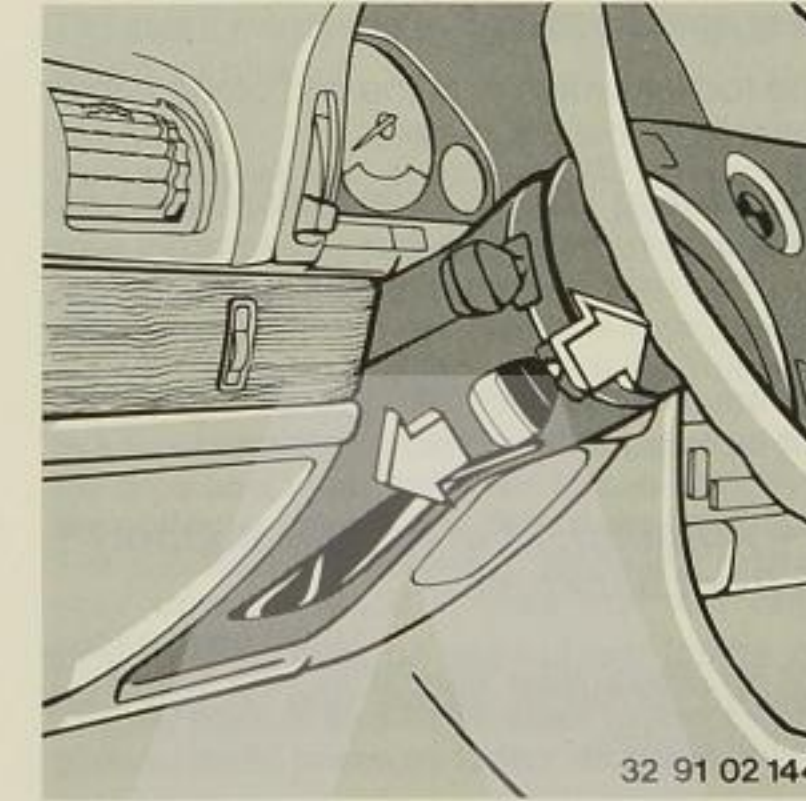


Adjustable steering column *

On vehicles without Airbag the steering column can be extended or retracted after pulling out the clamping lever. Secure the steering column in its new position by pushing the clamping lever into its recess.

Warning:

Do not adjust the steering wheel position while the vehicle is in motion. This constitutes an accident risk.



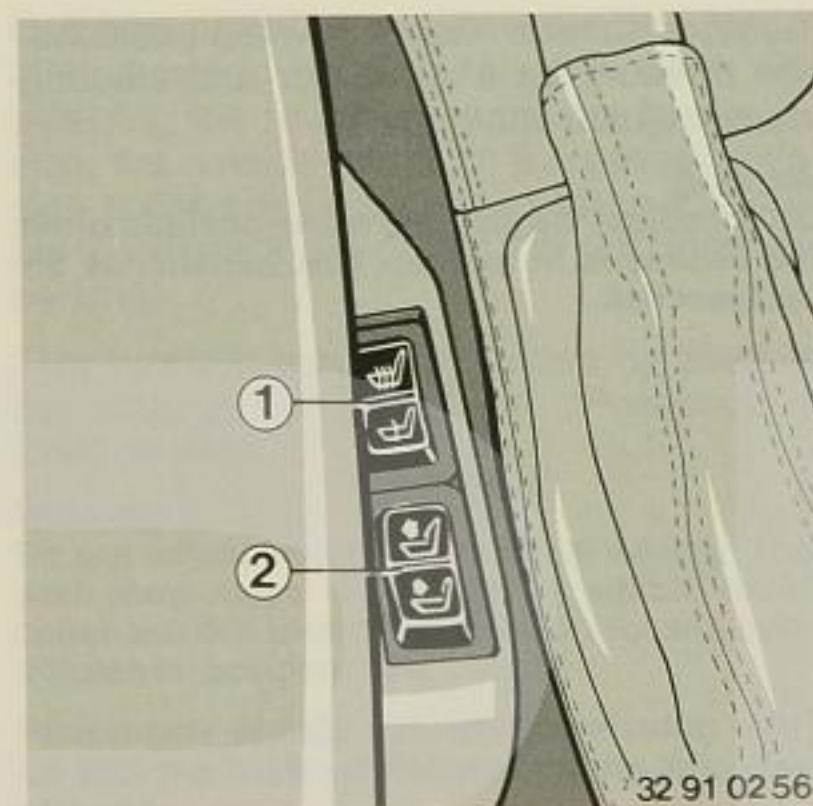
Electrical steering wheel adjustment *

With the lever you can adjust the steering wheel in two directions.

To store suitable steering wheel positions, see memory for seat, mirror and steering wheel adjustment, page 13.

Warning:

Do not adjust the steering wheel position while the vehicle is in motion. This constitutes an accident risk.



1 – Front seat heating *

Seat cushion and backrest are heated.

The electric seat heating is operated by rocker switches with coil symbols.

- ⏏ Seat quickly warms up as long as the switch is illuminated.
- ⏏ Constant heating is on automatically.
- ⏏ Heating as long as the switch is illuminated.

To change heat function while seat heating is on: Push the part of the switch that is not illuminated.

To switch off: Push the illuminated part of the switch.

Rear seat heating *

The rocker switch is at the end of the center console below the outlets.

The heating is only in operation when the engine is running, on the passengers side and the rear seats when the seatbelts are locked.

To save battery capacity, heating should not be used longer than necessary.

2 – Adjustment of lumbar support * in front backrest

To adjust the lumbar support pad for your desired position, press the appropriate rocker switch.



Seatbelts

Wear your seatbelt during each and every drive. The seatbelt must be locked with an audible click. To release the belt, push the red square button marked "PRESS". To store the belt, move the belt tongue to its stowed position on the door post.

Pull the belt across the chest and lap and be sure that the belts are not twisted. Make sure the belt does not pass over any hard or breakable objects in your pockets or clothing.

Make sure that the belt does not pass over the throat. Do not allow the belt to rub against sharp edges. The belts automatically adjust to ensure freedom of movement.

The belt must fit tightly against your body; that is why you should not incline the backrest too far to the rear, and should avoid wearing thick and heavy clothing.

Tighten it from time to time by pulling up the shoulder strap.

Warning:

Do not adjust seat position while driving. The seat may move unexpectedly which could cause sudden loss of vehicle control and constitutes an accident risk.

Passengers should not ride in a moving vehicle with the backrest reclined for the following reasons:

In a frontal collision the lap belt may slide past the hips and apply restraint forces directly to the abdomen, creating a risk of serious injury. The shoulder belt cannot immediately restrain your upper torso if it does not rest firmly against your body.

Pregnant women should wear seatbelts too. The lap portion should be worn as low as possible to avoid pressure to the abdomen.

For your comfort, the upper seatbelt anchor point is automatically repositioned whenever the seat is moved to a new position.

The reminder in the Check Control will be actuated for a time of about 6 seconds when the ignition is switched on. At the same time a chime will sound. The chime will not sound, when the driver's belt is put on before switching on the ignition.

Only secure one person (over 6 years old) with each belt.

Warning:

Infants or small children should never be held on the lap while the vehicle is in motion.

Do not tamper with any occupant restraint system.

Actuated seatbelt tensioner, seatbelts or **child restraint systems*** that are damaged or stretched by an accident, must be replaced completely as a safety precaution.

Have the anchor points checked by your BMW dealer.

A seatbelt tensioner that has been actuated, has a distance between the seatbelt lock and the tensioner case of approx. 0.8 in. (20 mm).

The belt locking mechanism may operate:

- when pulling the belt rapidly,
- when the car accelerates or slows down,
- when taking sharp curves,
- when the car is at a steep angle.

Care of the belts is described in section "Vehicle care".

Note: Please inform your passengers to obey the statements given to the seatbelts.

General remarks on seat position

Back muscles and spinal discs obtain most relief when you move right back in your seat and relax. Ideally the driver's head should be on a line forming a direct extension of the spinal column.

On long trips the backrest angle can be slightly increased, thereby further reducing the strain on the body muscles. Make sure that you are able to hold the steering wheel with the arms slightly bent.

Child restraints

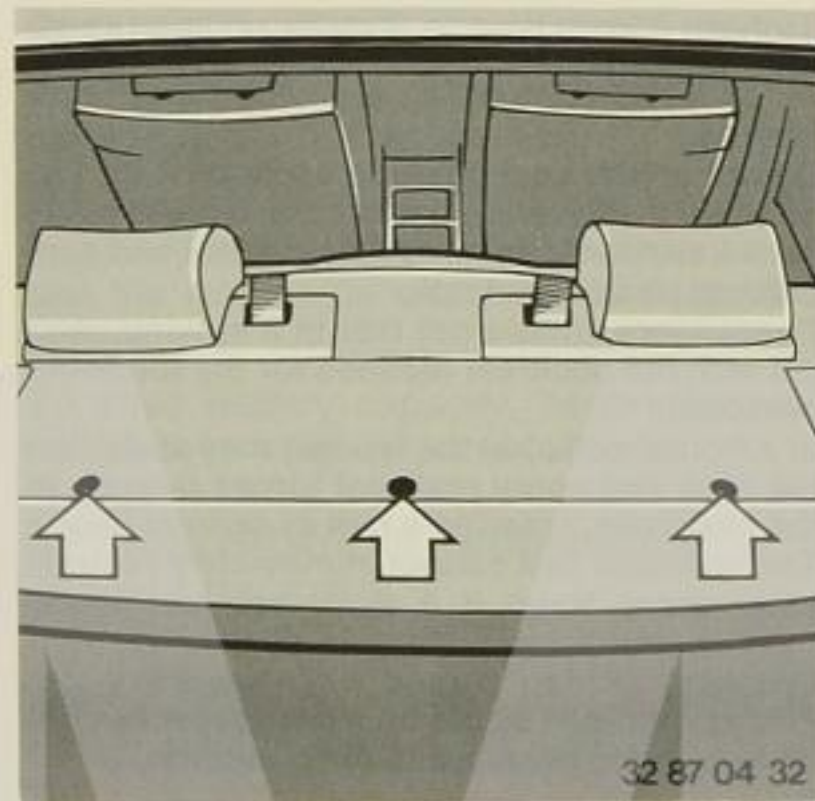
All occupants and especially children should be restrained whenever riding in cars.

Infants or small children should never be held on the lap while the vehicle is in motion.

Children should sit in the rear and use, depending on age, either a child restraint system or the existing safety belts. Accident statistics have shown that children are safer when properly restrained in the rear seats than in the front seating positions. In the rear seat, the center position is the safest.

Infants or toddlers should be secured with a child restraint system appropriate for their size.

Children six years and older may wear seatbelts.



Commercially available child seats complying with the legal standard are designed to be secured with a seatbelt or with the seatbelt portion of a combination lap-shoulder belt. Because improperly or inadequately installed restraint systems can increase the risk of injury to children, always read and follow the instructions that come with the system.

If the child restraint of your choice requires the use of a tether strap, three fastening points (arrow) have been provided on the rear shelf for attachment. Ask your BMW dealer to perform the necessary work.

Warning:
Your vehicle may be equipped with driver and front passenger airbags as a supplemental restraint system (SRS).

In a significant frontal collision, the inflating passenger airbag is likely to cause injury to a child riding in a child restraint in the front seat.

Therefore, a child restraint system should not be placed in the front passenger seat, but only in the rear seat.

Supplementary Restraint System (SRS)

The Supplementary Restraint System is designed to supplement the three-point seatbelt and to provide additional protection for the driver and the front seat passenger in the event of a serious frontal accident.

A diagnostic system continuously monitors the readiness of the squib, sensors and wiring integrity of the SRS. Monitoring begins when the ignition key is turned to position 1 (and further) and continues when the car is being driven.

The picture shows the area within which the airbag system is triggered off.

System is working:
The SRS indicator AIR BAG is illuminated for about 6 seconds and goes out.

System defective:

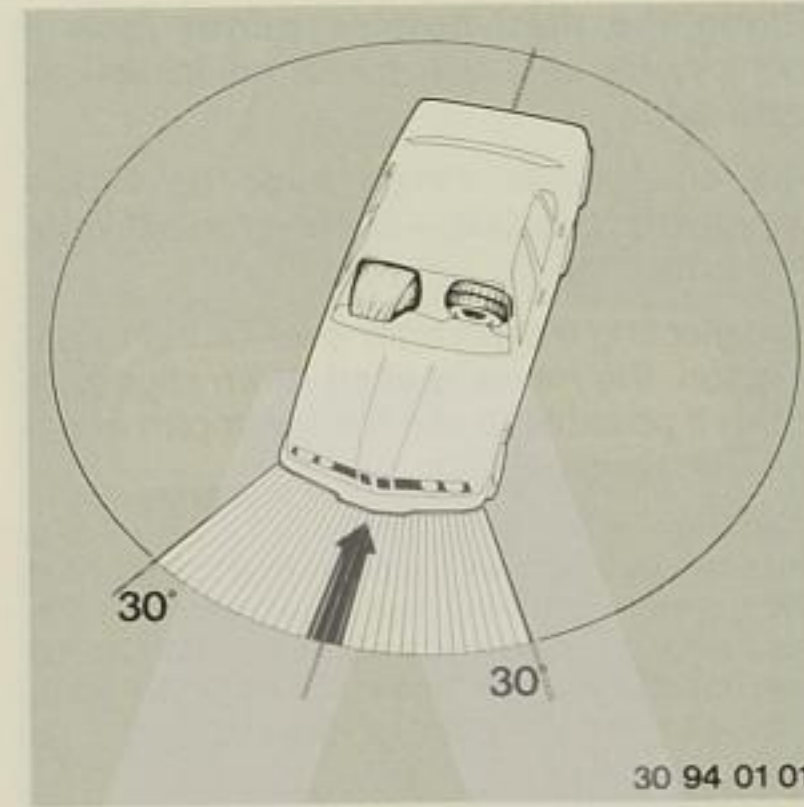
- indicator is not illuminated
- indicator goes out briefly after about 6 seconds and comes on again
- indicator comes on, flickers during a journey for about 5 minutes and stays on.

In these cases the system will not function, even in a serious accident within the area of action.

Have the system tested by a BMW dealer as soon as possible.

Function

The airbag is mounted under the cover in the center of the steering wheel and in the instrument panel.



During the impact a sudden, fairly loud inflation noise will be heard and a small quantity of smoke will be released, neither of which is injurious. Due to the pressure generated when the driver and front-passenger airbag systems are triggered off, the occupant's sense of hearing may temporarily be muted.

Since the airbag inflates with a high speed and force, a proper seating position will keep you at a safe distance from the airbag.

Do not lean with your head or chest close to the steering wheel or instrument panel.

Take the steering wheel always at the rim, otherwise hand or arm injuries can occur. Do not place any objects between the airbag and yourself or the passenger. Although obeying all notes, there may be injuries to the face depending on the circumstances of the accident.

Lesser impacts and those from the side and rear or a rollover will not deploy the airbag, and protection will only be provided by the seatbelts.

The SRS is not a substitute for fastening the seatbelts.

In connection with the seatbelt the SRS offers the best precondition for protection of the body in case of a serious accident.

Warning:
Your vehicle may be equipped with driver and front passenger airbags as a supplemental restraint system (SRS).

In a significant frontal collision, the inflating passenger airbag is likely to cause injury to a child riding in a child restraint in the front seat.

Therefore, a child restraint system should not be placed in the front passenger seat, but only in the rear seat.

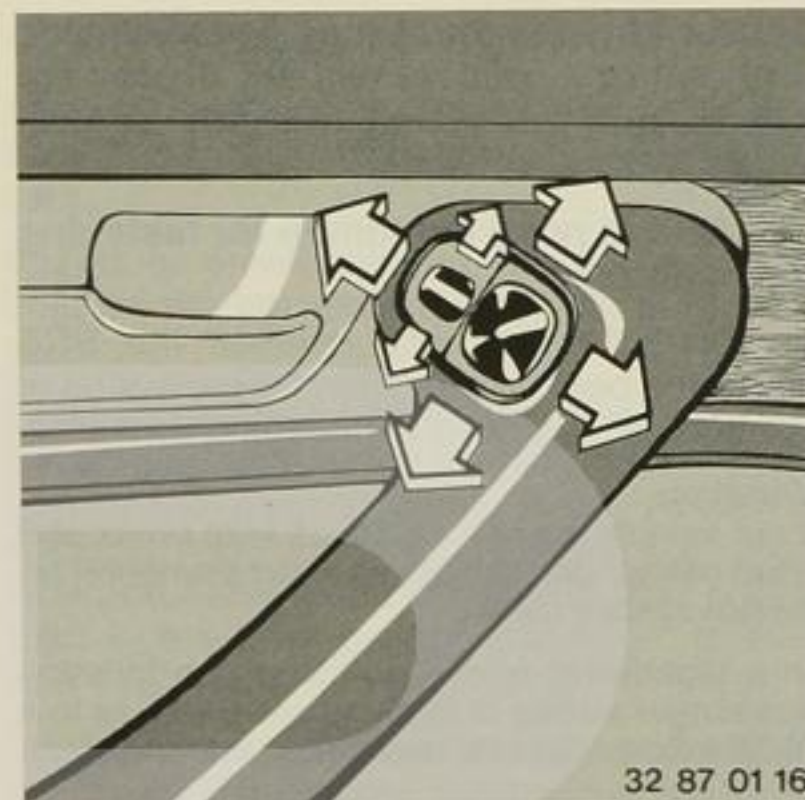
Tampering and improperly performed repairs can result in a failure of the system to operate or inadvertent activation.

The SRS can only be activated once. Only BMW dealers should repair or replace the system.

Do not affix any labels, decorations, badges etc. to the cover in the center of the steering wheel.

Should a SRS have to be scrapped, contact a BMW dealer for the safety precautions. If you sell your car, we urge you to inform the purchaser about the system and give him this manual.

Note: Please inform your Passenger to obey the statements given to the airbag.



32 87 01 16

Mirrors

Outside mirror

Reposition horizontally and vertically with large mirror button.

Shift small changeover switch to:

- Up — driver's side
- Down — passenger's side.

Both outside mirrors can also be repositioned manually by moving the glass.

Tilting the right outside mirror (only if memory for seat and mirror adjustment is installed).

The changeover switch must be in the upper — driver's side — position for this function to operate.

By selecting the reverse gear of the transmission, the mirror is tilted down slightly to make it possible to see the lower part of the vehicle when parking.

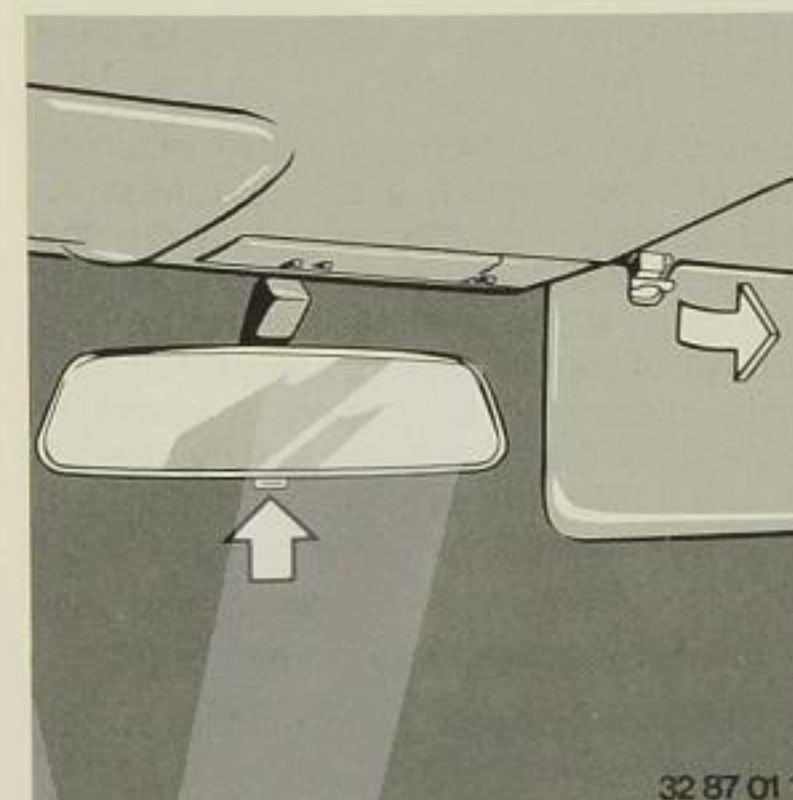
Warning:

Please take into consideration that the glass of the mirror is convex. The objects you see in the mirror are closer than they appear. Do not use this mirror to estimate distance of following cars when changing lanes.

Electrically heated mirrors

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

To store mirror positions in the memory for seat, mirror and steering wheel adjustment, see page 13.



32 87 01 17

Interior mirror

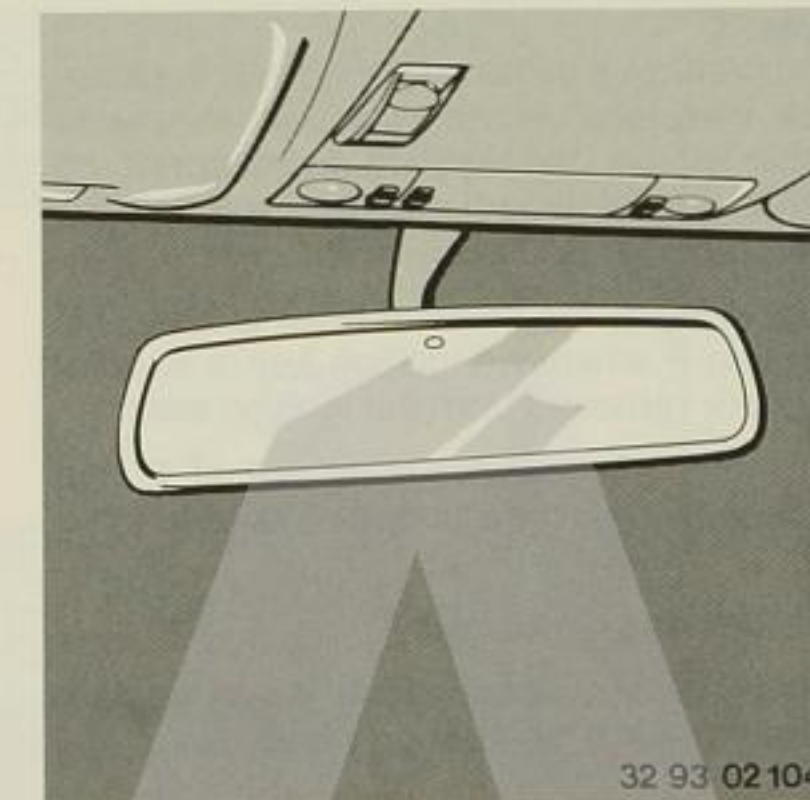
The **interior mirror** can be moved to the anti-glare position by means of the small lever.

Sun visor

Each **sun visor** can also be swung around to cover the upper part of the front side window.

Illuminated make-up mirror

Swing down the sun visor with the headlights on and move the cover aside, if necessary.



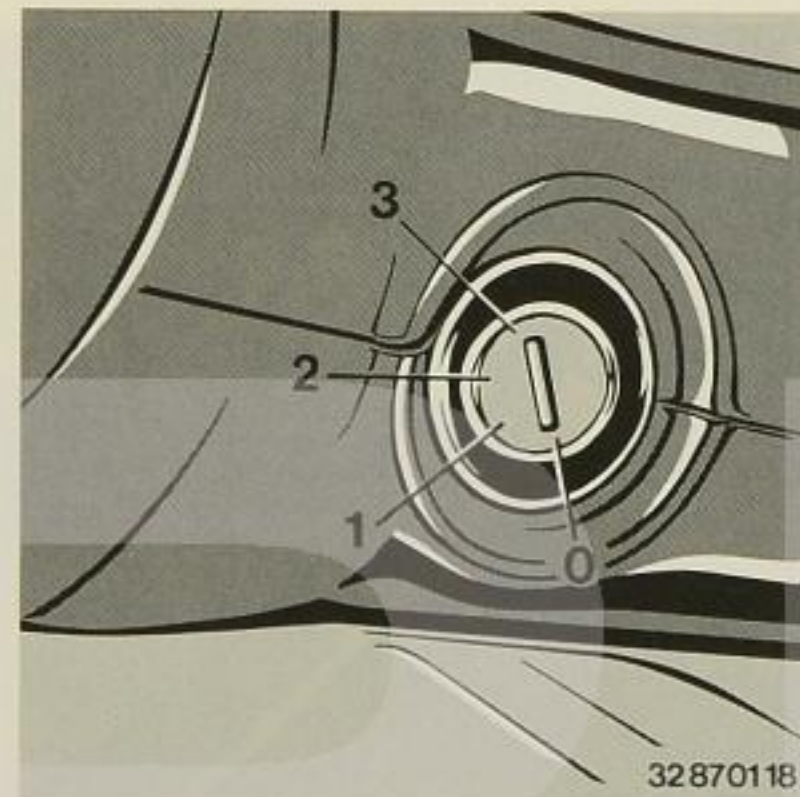
32 93 02 104

Anti-glare rearview mirror*

The mirror gradually darkens to reduce glare whenever the ignition key is in position 2. As glare subsides, the mirrored glass returns to its normal position.

When the transmission selector lever is placed in reverse (R) gear, the mirror switches to its normal position.

Note: Keep the photocell clean to ensure the operational sensitivity of the mirror.



Ignition/starter switch

0 Steering locked.

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

To lock the steering, pull out the key and turn the steering wheel to left or right until you hear the lock has engaged.

All items of electrical equipment are switched off except for the following, which remain operational: hazard warning flashers, cigarette lighter, interior light, side/parking lights and trunk light.

Note:

Your vehicle may be equipped with an Interlock therefore on vehicles with automatic transmission, the ignition key cannot be turned into position 0 and removed until the selector lever is in position P.

Furthermore, the selector lever is locked in position P when the ignition key is in position 0 or removed from the ignition switch.

To move the selector lever out of P, the ignition key must be turned at least to position 1.

1 Steering unlocked

To release the steering lock, it may be necessary to turn the steering wheel slightly.

Further equipment like radio and On-Board Computer can be operated.

2 Ignition switched on

All **electrical items** can be operated.

Note:

To utilize the features of the various electrical equipment, a charged battery is essential for their operation.

When the engine is idling or the vehicle is mainly driven for short distances of less than 10 miles over a prolonged period of time without an occasional drive at highway speeds, the generator only charges the battery very slightly. Insufficient use of the vehicle could result in short term starting problems and in the long term could damage the battery. We recommend switching off electrical equipment with high current consumption (e. g. seat heating, rear win-

dow defogger) unless absolutely needed when driving in city traffic.

To maintain the memory sense of some electronic equipment, a low current is always flowing. For this reason, have the battery checked and charged. **To prevent discharge, if the vehicle is to be laid up and out of use** for a period more than four weeks, disconnect the battery by taking off the negative lead. Be aware that the memories and if fitted the security equipment are not longer in working condition. See page 66.

3 Starter engages and cranks engine

BRAKE indicator light will illuminate during starting for a bulb check. As soon as the engine starts, release ignition key. It will return to position 2 and BRAKE indicator will go out.

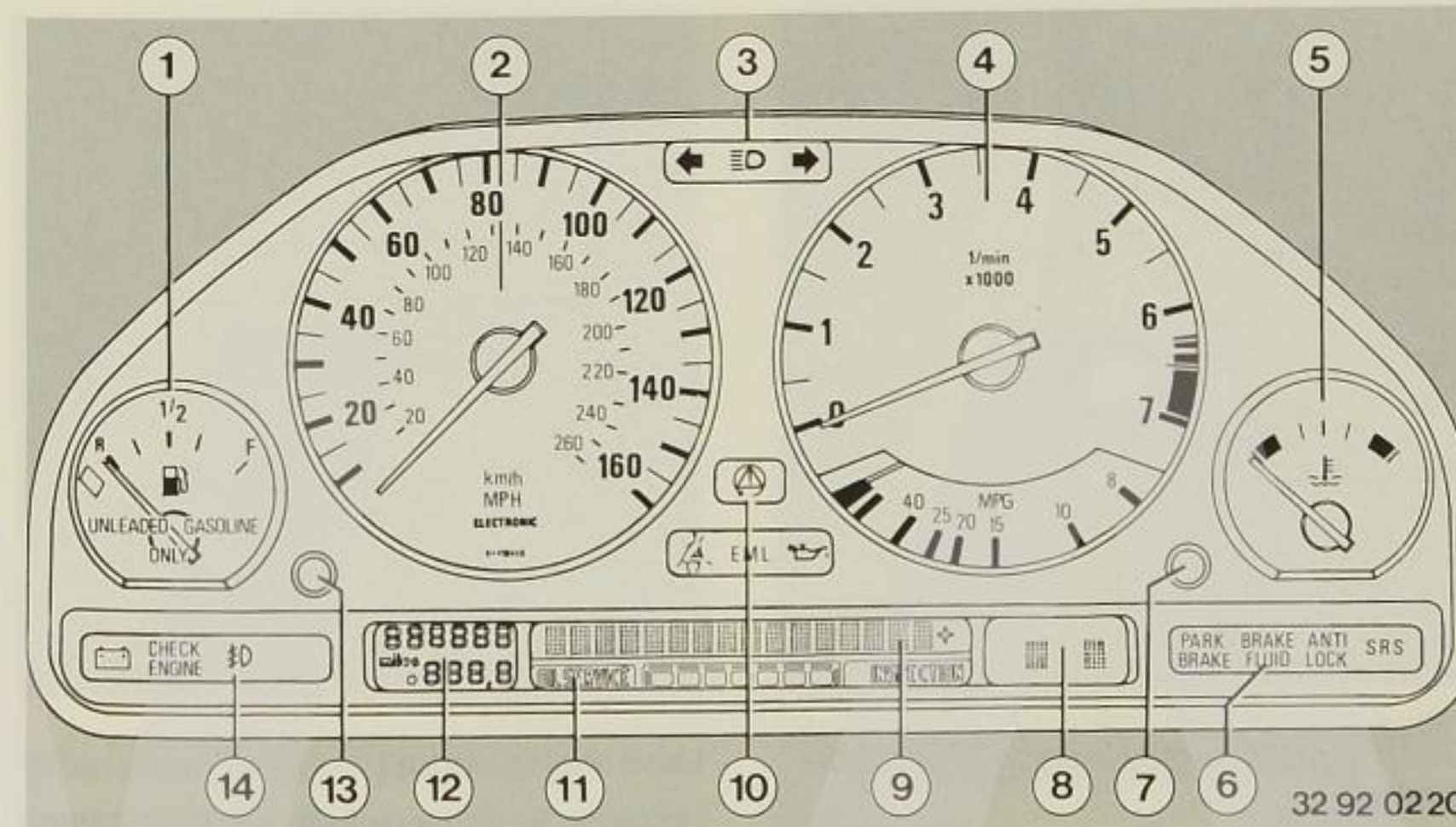
On vehicles with automatic transmission please note that starting the engine is only possible in selector lever position P or N.

Warning:

Never run the engine in an enclosed space. The exhaust contains carbon monoxide, which although colorless and odorless is extremely toxic.

Never pull out the ignition key when the car is moving, or the steering lock will engage (the steering may need to be turned only slightly) and render the car uncontrollable.

When leaving the car unattended, take the key with you. Make sure that the steering lock has engaged. To prevent the battery from discharging, always switch off the consuming devices not in use, as well as the ignition when the vehicle is not being driven.

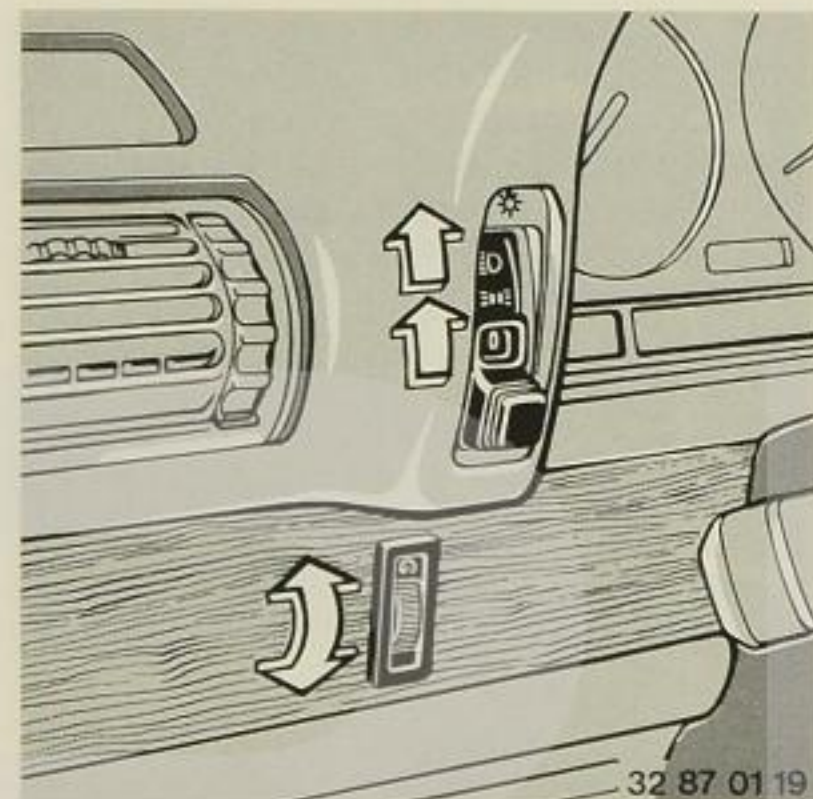


	Page
11 – Service-Indicator	27
12 – Odometer and trip odometer	26
13 – Resetting knob for trip odometer	26
14 – Fog light, emission-related indicator light* and battery charge indicator	30

* US models only

Instrument panel

	Page
1 – Fuel gauge with low fuel warning light	27
2 – Speedometer	26
3 – Turn signal indicator, Headlight high beam indicator	24
4 – Tachometer with fuel consumption indicator	26
5 – Coolant temperature gauge	27
6 – Warning and indicator lights for parking brake, hydraulic brake booster and power steering, Antilock Brake System, Supplementary Restraint System (SRS)	19, 30
7 – Check Control button	28
8 – Automatic transmission selector lever indicator	33
9 – Display for Check Control	28
10 – Warning and indicator lights for 'fasten seatbelt', electronic engine power control (EML), engine oil pressure and Automatic Stability + Traction Control (ASC+T)	28, 30



Headlight switch

☞ Parking lights, side marker lights switched on.

☞ Headlights, parking lights, side marker lights switched on.

If the ignition key is turned to position 1 or 0 with the headlights on, they will go out, but the parking lights and side marker lights will remain lit.

For information on the Xenon-Headlight see page 74.

Canadian version:

With the ignition key in position 2, these lights are automatically switched on.

Instrument light

To vary the intensity of the instrument light, turn the knurled wheel.



Turn signal lever/Headlight dimmer switch

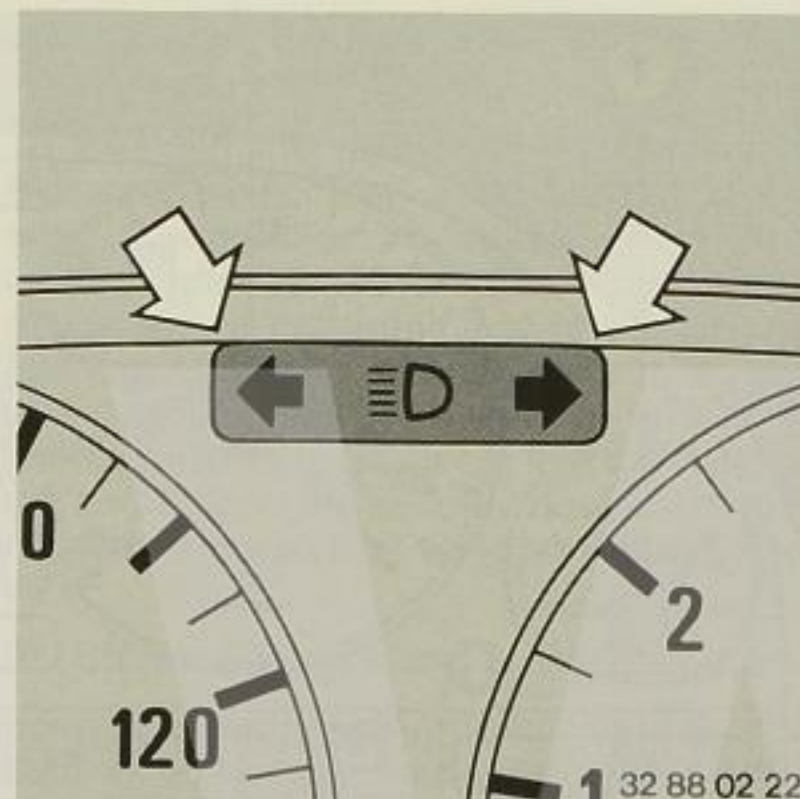
1 – Change from low beam to high beam

2 – High beam flasher

3 – Turn signal

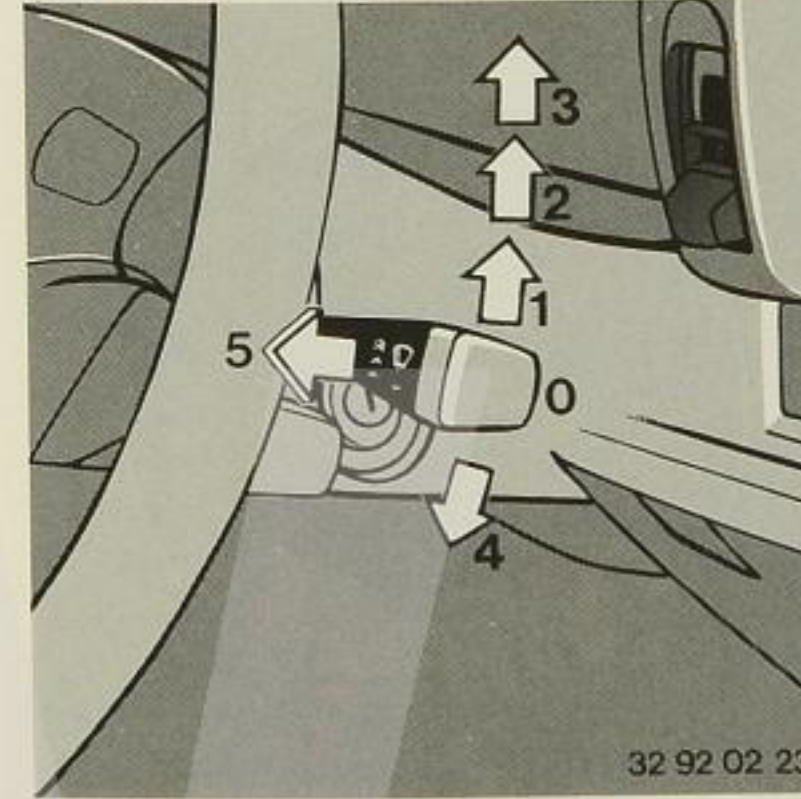
A ticking sound will be heard in the same rhythm as the turn indicators light up, to confirm that the turn signal is on.

When you return the steering wheel to the straight-ahead position, the turn signal lever will automatically cancel.



Lane change signal

However, to display a turn signal for a short period only – when changing lanes, passing or pulling away from the road side etc. – you need only to press the turn indicator lever slightly away from its rest position, without allowing it to engage. When released, the lever will immediately return even if the steering wheel is not turned.



Windshield wiper/Washer lever

0 – Off position

1 – Intermittent wipe

The time interval for intermittent wiping can be **programmed** within a range of 3 to 20 seconds (time interval will double when the car is at a standstill).

To program the interval, move the lever to position 1 and then immediately back to position 0. This action starts the "timer". After the desired time has elapsed (3 to 20 seconds), move the lever fully to position 1 (stops the timer). The time interval has now been programmed. To change the time interval, bring the lever to position 0 (cancels the previous time interval) and repeat the procedure.

2 – Normal wiper speed

With the car at a standstill the normal wiper speed changes to intermittent wipe.

3 – Fast wiper speed

4 – Single wipe

5 – Automatic wash-wipe system.

Fluid is sprayed onto the windshield and the wiper operates for a few cycles. By briefly pulling the lever only fluid is sprayed onto the windshield without operating the wiper system.

Headlight/Fog light Washer

Function when headlights and/or fog lights are ON and wiper lever is operated in position 5 or 6.

Fluid tank, see pages 62, 63.

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

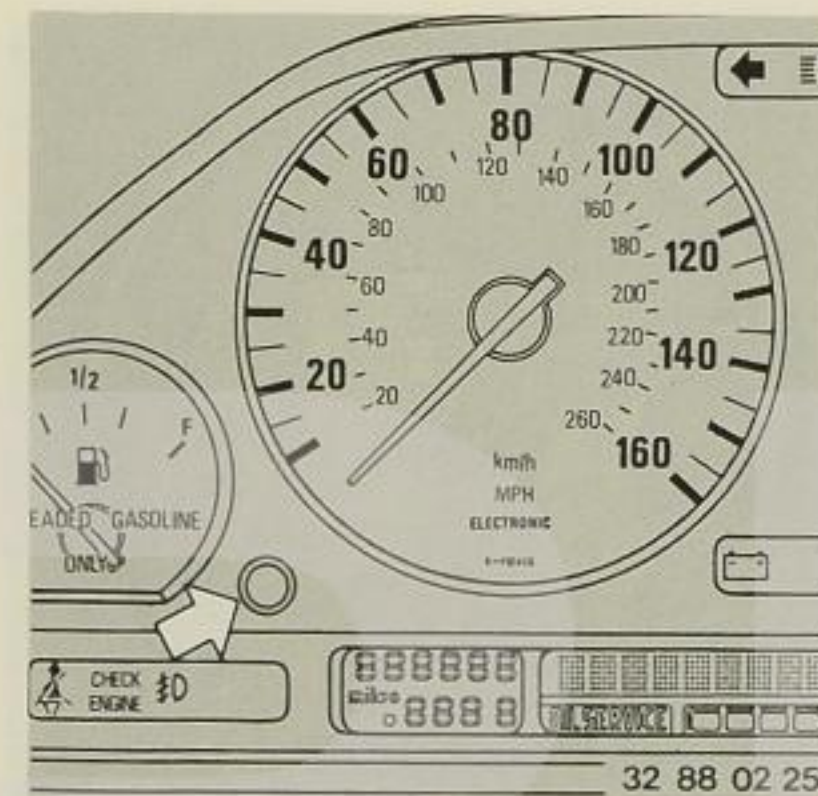
Caution: Do not use the washers in freezing weather without first warming the windshield with the defroster, otherwise the washer solution may freeze on the windshield and obscure your vision.

Do not operate the windshield washer when the fluid reservoir is empty to prevent possible damage to the washer pump system.



Horn

The horns are sounded by pressing the pad in the steering wheel.



Speedometer

US model

The outer scale of the **speedometer** is calibrated in miles per hour. The inner scale is calibrated in kilometers per hour.

Odometer

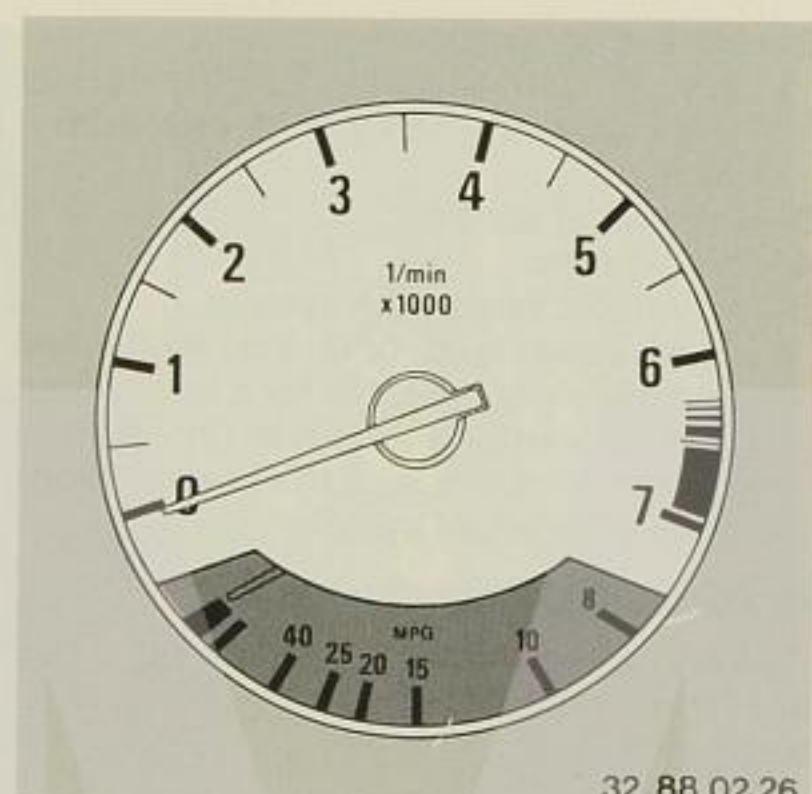
The odometer registers the distance in miles. The **trip odometer** which is used to record trips up to 999.9 miles can be reset to zero by pressing the knob (arrow).

With the ignition key in position 0 or removed, to display the odometer and trip odometer indication for a few seconds, press the reset knob.

Canadian version

In this version the scale of the speedometer is calibrated in kilometers per hour.

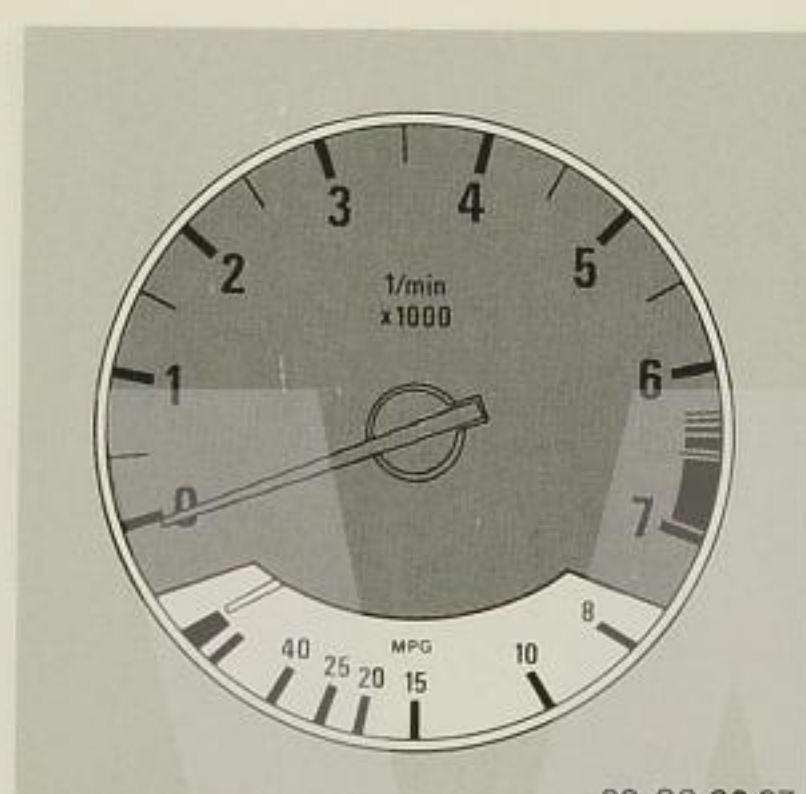
The odometer registers the distance in kilometers.



Tachometer

Avoid excessive engine speeds in any portion of the red warning zone, particularly when driving downhill or in lower gears.

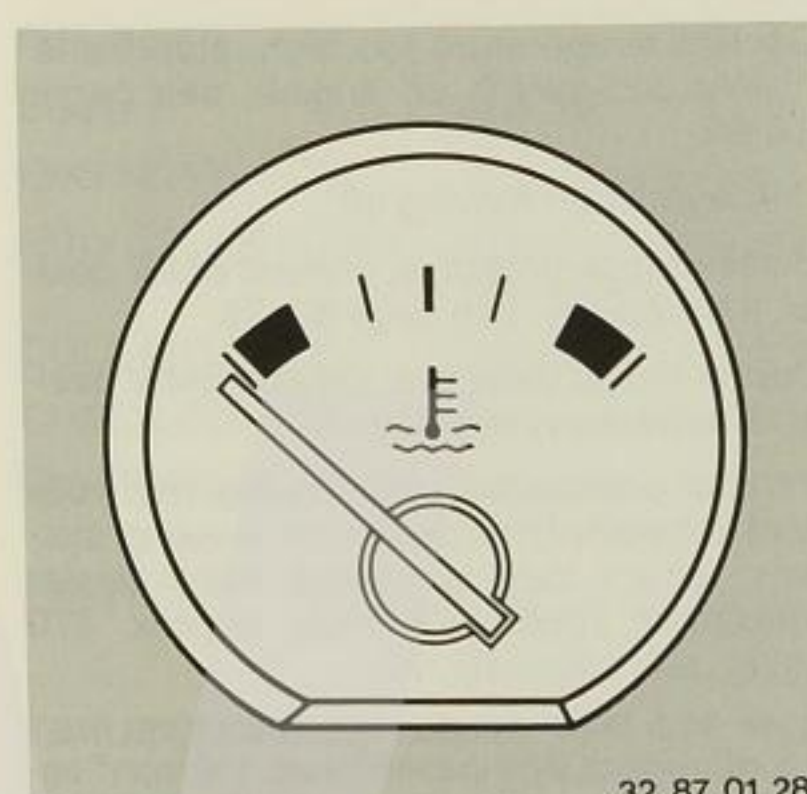
The **fuel injection control unit** incorporates a cutout to limit maximum engine speed. This takes effect when the needle of the tachometer reaches the red warning zone.



Fuel consumption indicator

You can read the fuel consumption corresponding to your style of driving.

The indicator will tend towards the zero (in Canada to the maximum) reading as speed is reduced, and will come to rest there when the car is stopped.



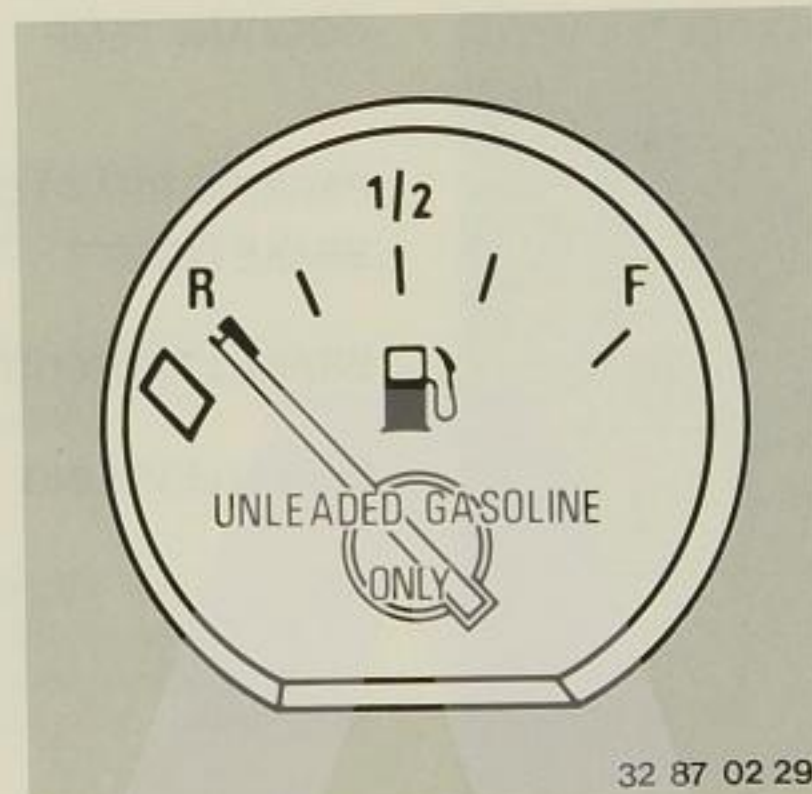
Coolant temperature gauge

Blue: Engine has not reached normal operating temperature. Drive only at moderate road and engine speeds.

Red, indication "COOLANT TEMP" in Check Control: Engine overheated – pull over to a safe area out of the mainstream of traffic and stop engine immediately. Allow system to cool down until temperature gauge indicator is approx. in the middle of the scale.

Normal operating temperature is between the two colored zones. The needle may tend to reach the red zone when the ambient temperature – and/or the engine load is very high.

Check coolant level, see page 65.

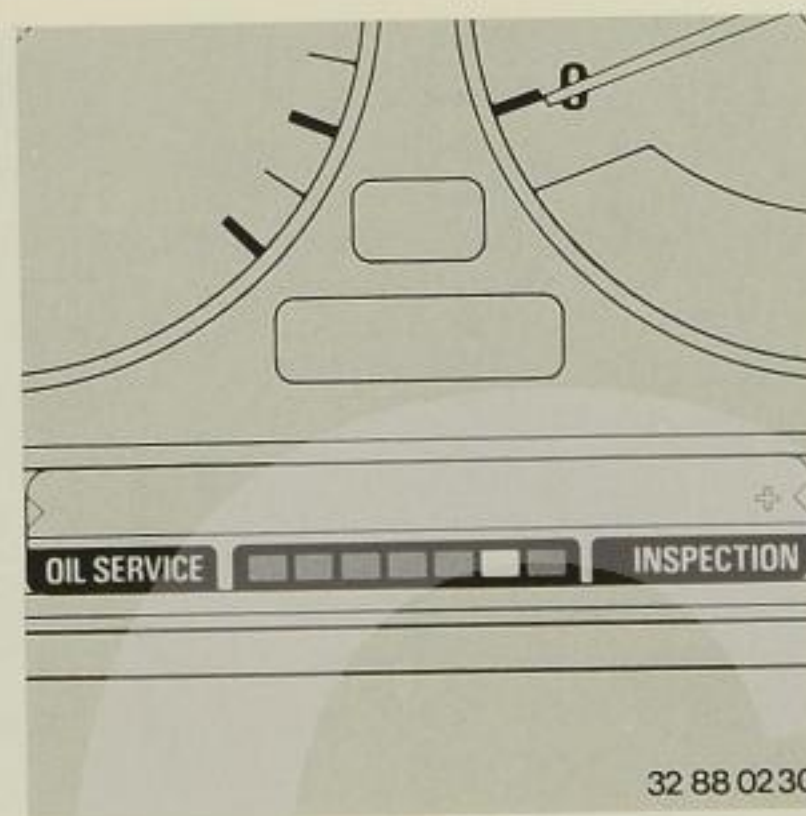


Fuel gauge

If the yellow low fuel warning light comes on, there are approx. 2.2 gal./8 l fuel left in the tank.

For a function test the light comes on briefly when the ignition is switched on.

Fuel tank capacity, see page 105.



Service-Indicator

Green lights

As the number of illuminated green lights becomes less, this is an indication that the next service is due shortly. The green lights go out when the engine is started.

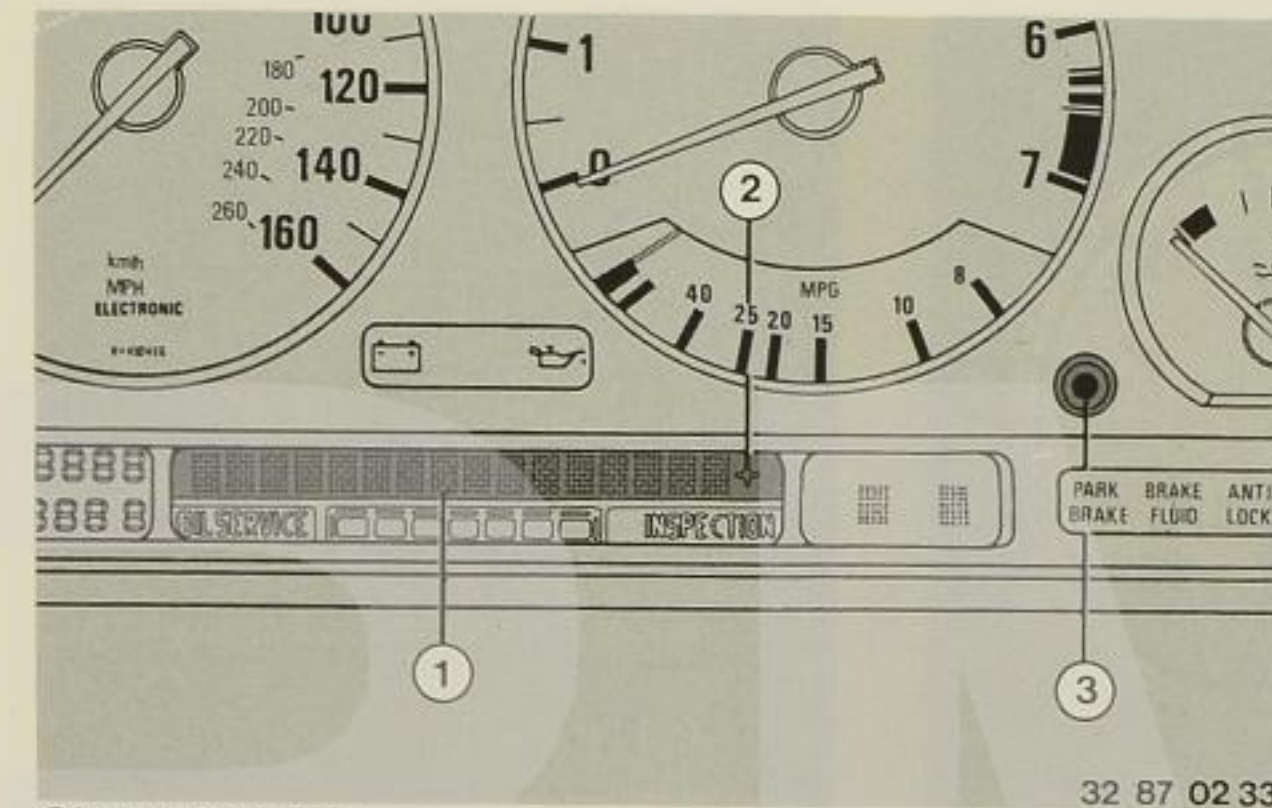
Yellow light

If the **yellow light** and one of the inscriptions OILSERVICE or INSPECTION come on, the next service routine is due.

Red light

When the red light comes on the maintenance interval has been exceeded. For further information refer to your Service Warranty Information booklet*. Resetting is done after maintenance.

* US models only



Check Control

Warnings and malfunctioning systems are shown in the graphic display (1). A chime will sound at the same time.

As soon as the ignition is switched on a reminder FASTEN BELTS is displayed and will extinguish after 6 seconds or when the belt is put on.

The warning KEY IN IGNITION appears in the display to remind you to pull out the ignition key before leaving the car.

The display of the systems checked are set in two priorities:

Priority 1

Display	Advice
BRAKE PRESSURE	Too low, see pages 72.
LOW BRAKE FLUID	Have your brake system checked immediately by your BMW dealer to determine the cause of the problem. Level too low, see pages 65, 72.
ENGINE OIL PRESS	Too low, stop immediately and switch off engine, see pages 30, 64.

COOLANT TEMP

Coolant temperature too high, stop immediately and switch off engine, see pages 27, 65.

PARKING BRAKE ON BRAKE LIGHT

Displayed after moving off

Bulbs or fuse defective, consult BMW dealer, if necessary, see page 67, 76.

BRAKE LT CIRCUIT

Bulb or circuit defective, consult BMW dealer, if necessary, see page 67.

SUSPN LEVELING

Vehicle overloaded (permissible rear axle load exceeded) or defect on leveling system; reduce load or consult BMW dealer (maximum speed 106 mph, approx. 170 km/h); see pages 65, 72.

Note: With the indication "SUSPN LEVELING" the alternating information "max. 110 mph" appears after exceeding the speed. The information is extinguished by reducing the speed distinctly.

TRANS PROGRAM

Automatic transmission: transmission control module has failed, see page 32.

BRAKE LININGS

Worn out, see page 72.

WASHER FLUID LOW

Washer fluid level too low, see pages 62, 63.

DOOR OPEN

Displayed after moving off

TRUNK LID OPEN

Displayed after first moving off

1 BRAKE LIGHT

Bulb,

LOW BEAM

fuse respectively

PARKING LIGHT

circuit defective

TAIL LIGHT

see page 73 or consult

F/FOG LIGHT

BMW dealer

LIC PLATE LIGHT

Note:

These malfunctions are indicated immediately, accompanied by a chime. The indications cannot be extinguished by the Check Control button (3). If the + symbol (2) appears, there are further indications; for display press Check Control button.

Priority 2

Display

ENGINE OIL LOW

Advice

Engine oil level too low, see page 64.

POW STEER FLUID

Power steering fluid level too low, see page 65.

COOLANT LEVEL

Coolant level too low, see page 65.

CHECK CONTROL

Defect in the electronic system

OIL LEVEL SENSOR

Defective, consult BMW dealer

LIGHT ON?

Displayed when headlights are on, after pulling ignition key out and opening the driver's door. The display extinguishes after 20 seconds or when pressing the Check Control button.

Note:

These indications are displayed in ignition key position 0 or after stopping the car (if there are several indications, they will be displayed one after the other). Indications can be called up to three minutes after stopping the car.

Before taking off a display of outstanding indications will take place when the ignition key is inserted and turned to position 2. The display is extinguished a short time afterward, leaving no reminder symbols. The next display won't appear until the ignition key is put in position 0. When the + symbol appears, call further indications by pressing the Check Control button.

General information

If the indication "OWNER'S MANUAL" shows up in the display after an indication this means that further information is given in the columns "Advice".

To delete the indication "OWNER'S MANUAL": Press the Check Control button.

Checking the function of the graphic display: Turn the ignition key to position 2; graphic display shows FASTEN BELTS; no malfunctions should be displayed. A dotted frame appears around the display when pressing the Check Control button.

To display the On-Board Computer functions in the Check Control refer to page 47.

Checking the function of the display (only if there is no fault displayed): With the ignition key in position 2, press the Check Control button.

CHECK CONTROL OK should appear.

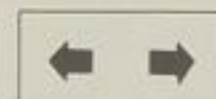
Indicator and warning lights



Indicator for ASC+T¹⁾

Light goes out after engine has started. System is working.

For further information: See page 90.



Turn signals left/right

Comes on simultaneously when operating the turn signals.



Headlight high beam indicator

Light comes on when the high beams are on and when the headlight flasher is operated.



Parking brake indicator

Light goes out after engine has started. The parking brake indicator light in the dash goes out after the engine has started and will come on when the parking brake is applied.



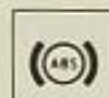
³⁾ Hydraulic brake booster and power steering

Light goes out after the engine has started. If the light comes on while driving the fluid level is too low.

If the light flashes while driving (BMW 750 iL only) pressure has been lost in the Hydraulic brake booster or power steering system. Further hints, see page 65.



Antilock Brake System warning light



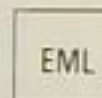
If the ANTILOCK warning light comes on when the car is in motion at normal driving speed, this indicates that the antilock braking system has developed a fault. Although the antilock braking effect is lost, normal brake applications can still be made.



Battery charge indicator

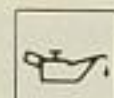
Light goes out after engine has started. If the red battery charge indicator comes on while driving have the car checked to determine the cause of the problem, otherwise the battery will be discharged completely.

Caution: BMW 740i, 740iL: If the V-belt is defective, the coolant pump will be inoperative and overheating could cause engine damage. Contact your BMW dealer. Also a higher effort for steering and on the BMW 750iL a higher effort for braking is needed.



Electronic engine power control

With the ignition key in position 2 the light illuminates shortly and signals a working system. A malfunctioning system is indicated if the light stays on or illuminates while driving. Consult your BMW dealer and drive at low engine speeds.

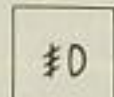


Engine oil pressure warning light

Light goes out after engine has started. If the **red oil pressure warning light** or the description "ENGINE OIL PRESS" in the Check Control comes on while driving, pull off the road to a safe stop and declutch or select neutral immediately and switch off the ignition. Check the oil level and add more oil, if necessary. If the engine oil level is correct consult a BMW dealer.

Operating the vehicle with low or no oil pressure will cause severe engine damage.

If the warning light comes on briefly at idle speed this should cause no alarm provided that it goes off when the accelerator is partially pressed down.



Fog light indicator

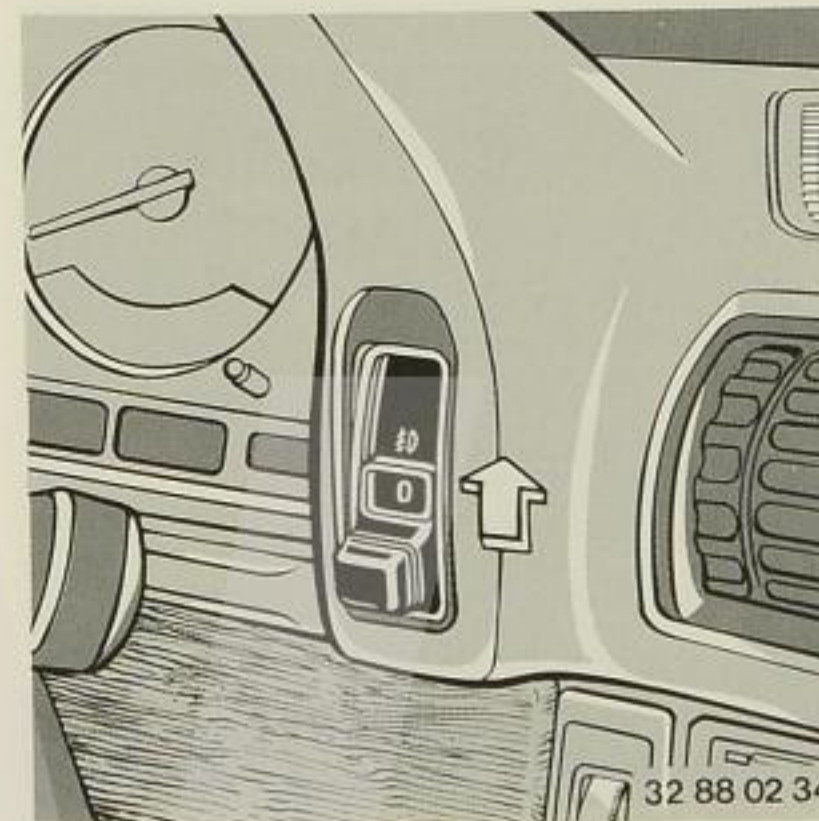
Light comes on if the fog lights are switched on.



Emission-related indicator⁴⁾

Light goes out after engine has started. If the CHECK ENGINE indicator lights up or flashes the engine still can be driven but the emission related electronics should be inspected as soon as possible. Consult a BMW dealer.

⁴⁾ US models only

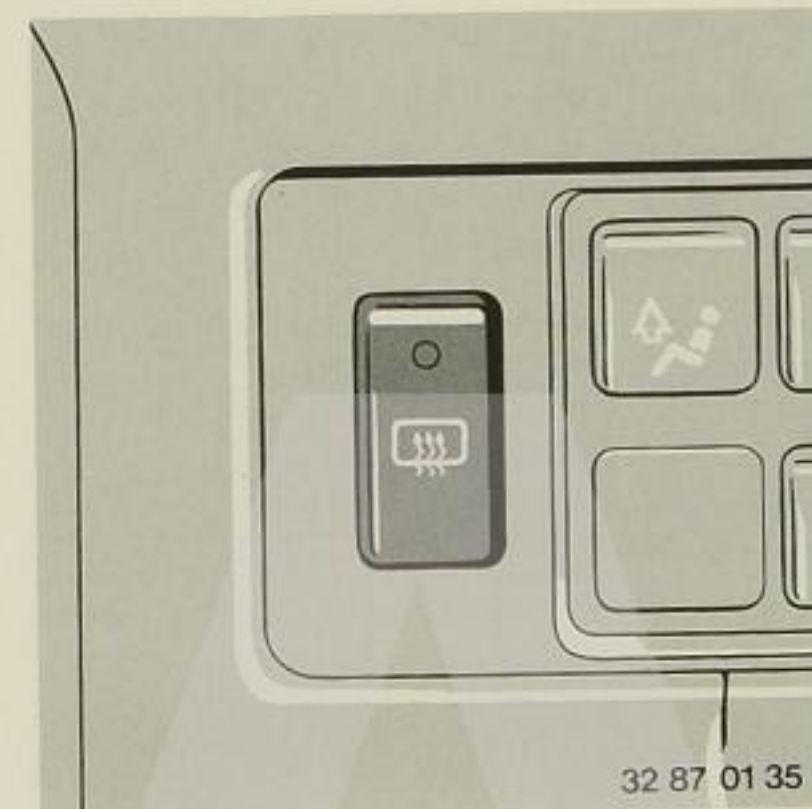


Fog light switch

To switch on the fog lights, slide the switch up.

Whenever the front fog lights are in use, the indicator on the instrument panel comes on.

Please heed local regulations with regard to the use of fog lights.

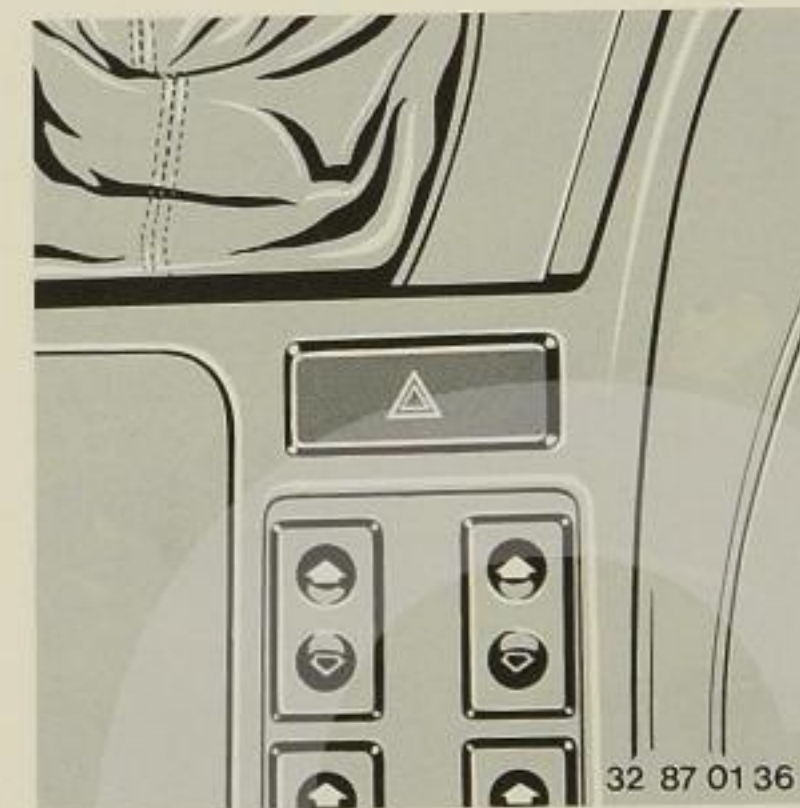


Rear window defogger

After every engine start, to switch on the defogger, press the button. As long as the indicator light is illuminated the window defogger works at the maximum defrost setting. When the indicator goes out the system works at an energy-saving operation for about 36 minutes.

If further defogging is required, press the button again; the maximum defrost setting will work again for a short period. The electric heating elements on the rear window ensure unrestricted vision to the rear and help to prevent or remove fogging or ice build-up in freezing conditions.

To switch off the system, press the button while the indicator is lit.



Hazard warning flasher

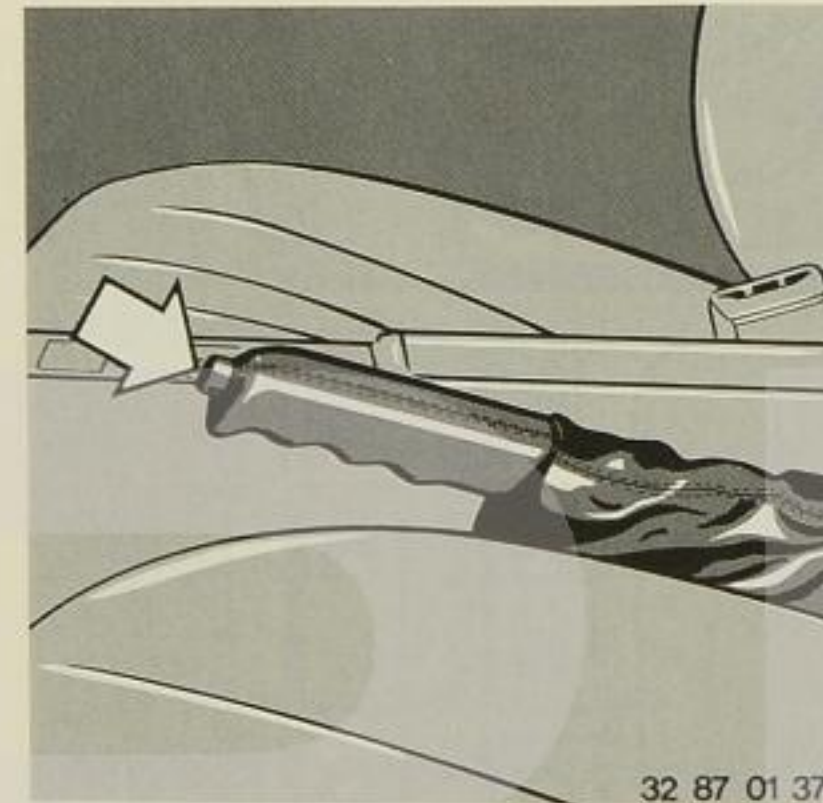
The hazard warning flashers are operated by the pushbutton with the "triangle" symbol; its red warning light flashes when the hazard warning system is in use.

When the car's lights are turned on, the pushbutton is illuminated.

¹⁾ ASC+T/Automatic Stability Control + Traction

²⁾ Pictogram for Canadian models

³⁾ BMW 750 iL only



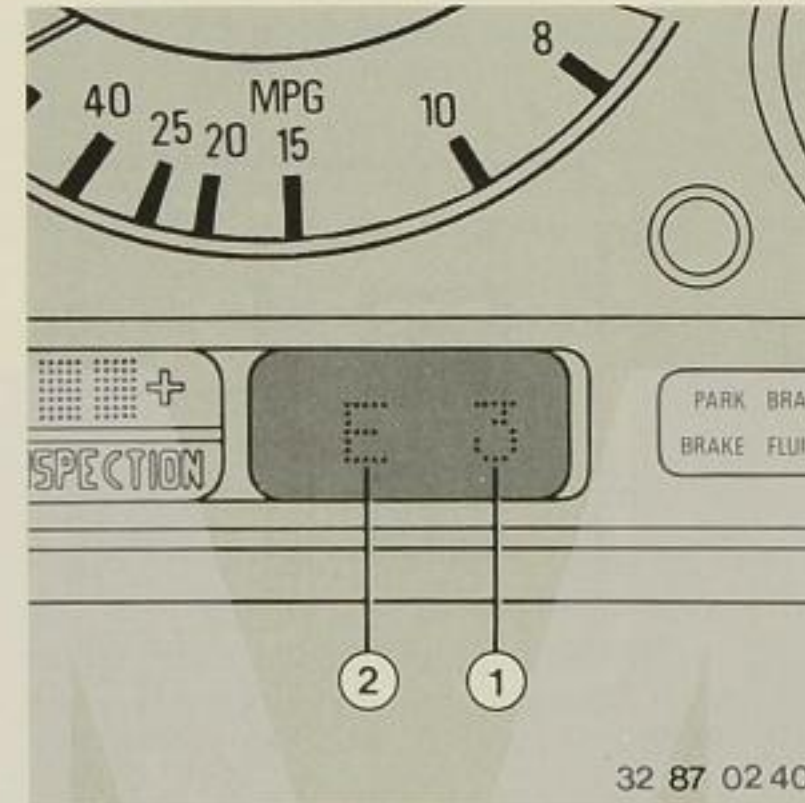
Parking brake

The parking brake operates on the rear wheels. To prevent the vehicle from moving when parked, pull the parking brake lever up. To release the lever, pull it up slightly, press in the knob and push the lever down.

When the parking brake is applied the indicator in the instrument cluster will come on.

Using the parking brake when driving, apply brake lightly to avoid skidding.

Caution: The stop lights will not come on when using the parking brake.



Automatic transmission

The following **selector lever positions** are available and displayed (1) for various traffic conditions.

BMW 740i, 740iL:

P-R-N-D-4-3-2

BMW 750iL:

P-R-N-D-3-2-1

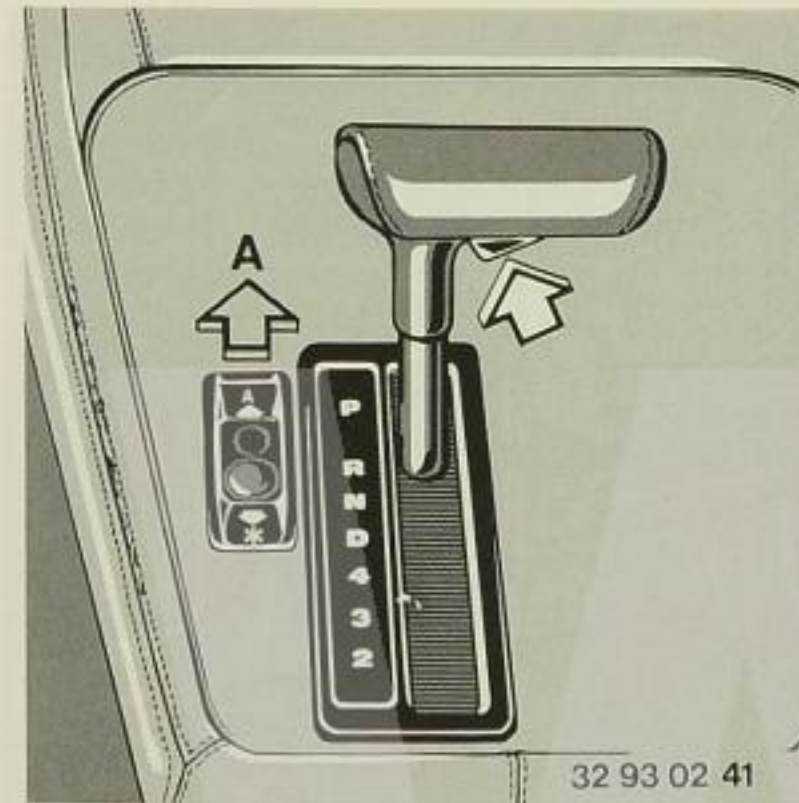
The lever position selected is also shown by symbols on the selector lever gate.

Additionally 3 shift programs (display 2) can be selected.

BMW 740i, 740iL:

A (Automatic/Economy) – push switch to desired direction
* (Winter program)

S (Sports) – shift lever to position 4



BMW 740i, 740iL

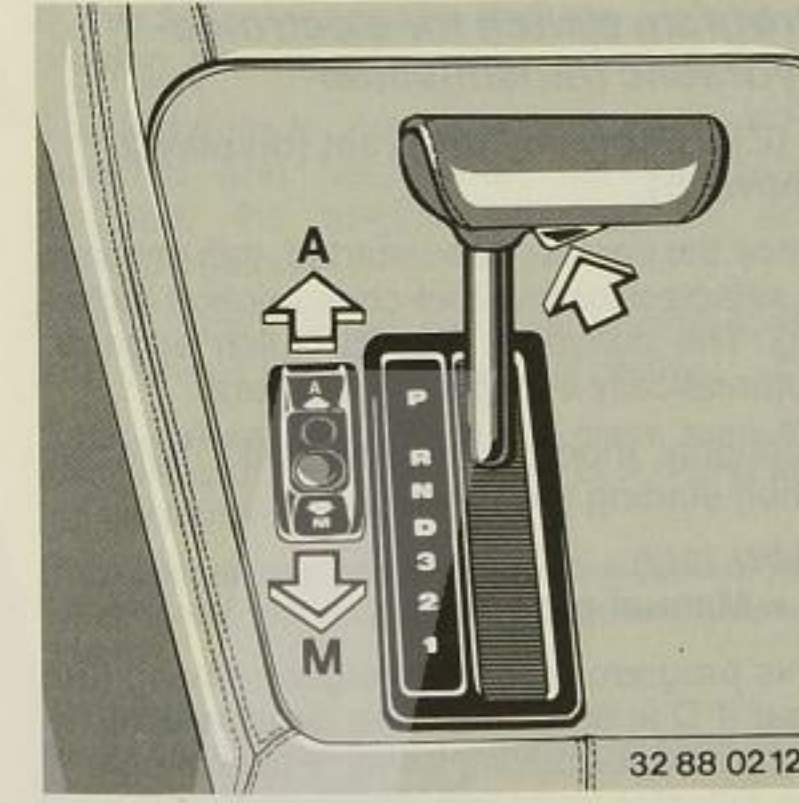
BMW 750iL:

A (Automatic/Economy) – push switch to desired direction
M (Manual) – shift lever to position 3
S (Sports) – shift lever to position 4

Engine starting is only possible in position P or N.

Note: Depending on the model, your vehicle may be equipped with a Shift-Lock. To move the selector lever out of position P or N when the engine is running (road speed below 3 mph/5 kmh) apply the foot brake and make sure that the engine speed is below 2500 rpm.

If immobilized in deep snow or sand, a time delay enables the quick shift between the drive and reverse gear while rocking out the car.



BMW 750iL

Pull up the release catch below the lever handle if necessary.

Important: after selecting any lever position wait for the transmission to engage especially at low temperatures (slight drop in engine speed) before accelerating.

The car tends to creep if the engine is running at idle speed and a drive gear is engaged.

Before leaving the car with the engine running, first select P or N at the selector lever and apply the parking brake.

P = Park

Select only when the car is standing still. The transmission is locked in this position as an additional precaution against rolling away. Press the release catch under the selector lever handle before engaging this position.

R = Reverse

Select only with the car standing still and the engine idling. First pull up the release catch below the lever handle.

N = Neutral

There is no connection between the engine and the transmission. Select this position during prolonged periods of idling (for instance in traffic jams). Apply the foot brake to prevent unintentional rolling of the car.

At short stops, for example, when waiting at traffic signals, the drive position should be left in engagement.

Do not select neutral when driving the car unless absolutely necessary (e. g. to prevent skidding).

If it happens accidentally release the accelerator immediately and select the new position.

D = Drive

(automatic gear selection)

This is the position for all normal driving. The car starts in 1st gear and shifts up automatically.

The shift points are chosen for maximum economy. In the 4th/5th speed range, the converter lockup clutch engages automatically, depending on speed, and thus creates a mechanical link between the engine and transmission.

The 4th/5th speed range is designed as an overdrive, to reduce engine speed, engine noise and fuel consumption once a steady road speed has been achieved.

The 4th/5th gear is not selected when the accelerator pedal is depressed beyond the full throttle position (kick-down).

BMW 750iL:

3 = S program, direct drive position (display 2 shows S)

BMW 740i, 740iL:

4 = S program, direct drive position (display 2 shows S)

This is the program for an enthusiastic driving style. The gear shift points are delayed to make full use of the car's power reserves. The converter lockup clutch engages automatically in 3rd gear.

If under certain city or highway driving conditions repeated gear changing occur, shift to this position.

If increased performance is needed, shift to this range.

BMW 740i, 740iL:

3 and 2* = Hill-climbing and engine braking

BMW 750iL:

2 and 1 = Hill-climbing and engine braking

These positions may suit the driver better on mountain roads or very long uphill and downhill gradients. It makes better use of full engine performance and the engine's braking effect.

Position 3, 2 and 1 can be selected at any speed, after releasing the safety catch under the handle. However, the transmission will not shift down immediately into 3rd, 2nd and 1st as this would cause excessive engine rpm.

BMW 750iL:

Note that once position 2 or 1 has been selected, the transmission will no longer shift up to a higher speed range, even if this means that the engine speed can become excessive.

"Kick-down"

After reaching the normal full-throttle position, the accelerator pedal on automatic transmission cars be depressed further by overcoming the detent.

This will enable maximum acceleration to be obtained immediately by selection of lower gears.

After the kick-down has been operated, the next upward shift will occur only at a much higher engine speed than usual.

Program switch for electronic-hydraulic transmission

A (E) = Economy program (display 2 shows E)

Once the car has been started, this program is selected for low-fuel-consumption motor-ing. The converter lockup clutch engages automatically in 3rd and 4th gears.

Economy mode is automatically selected when starting the engine.

BMW 750iL:

M = Manual program

This program is for single-gear driving (3rd gear if D is selected). The gear selected is also used for pulling away. For example, if the selector lever is in position 1 or driving up steep gradients, no undesirable upward gear shifts will take place. The same applies to driving on icy roads in winter: with the selector lever in position 3, you can pull away smoothly and no gear shifts will occur.

BMW 740i, 740iL:

*** Winter programm**

This programm is for winter driving. In position D the gear shifting 2–5 occurs earlier to avoid skidding. With the selector lever in position 3 or 4 automatic shifting (2–3, 2–4) still occurs.

In selector lever position 2 the gear is held; this is useful for pulling or very long uphill driving.

If the indication "TRANS PROGRAM" in the Check Control display appears, it means: Transmission control module has failed.

* The 1. gear is shifted automatically.

If the failure appears and the vehicle is moving, the 4th gear will be selected.

The 3rd gear for better performance will be selected and held when the vehicle is stopped, the engine switched off and started again.

In this event avoid extreme engine loads and consult the nearest BMW dealer.

Note: Before leaving the car make sure the gear selector lever is engaged in P (Park) and set the parking brake.

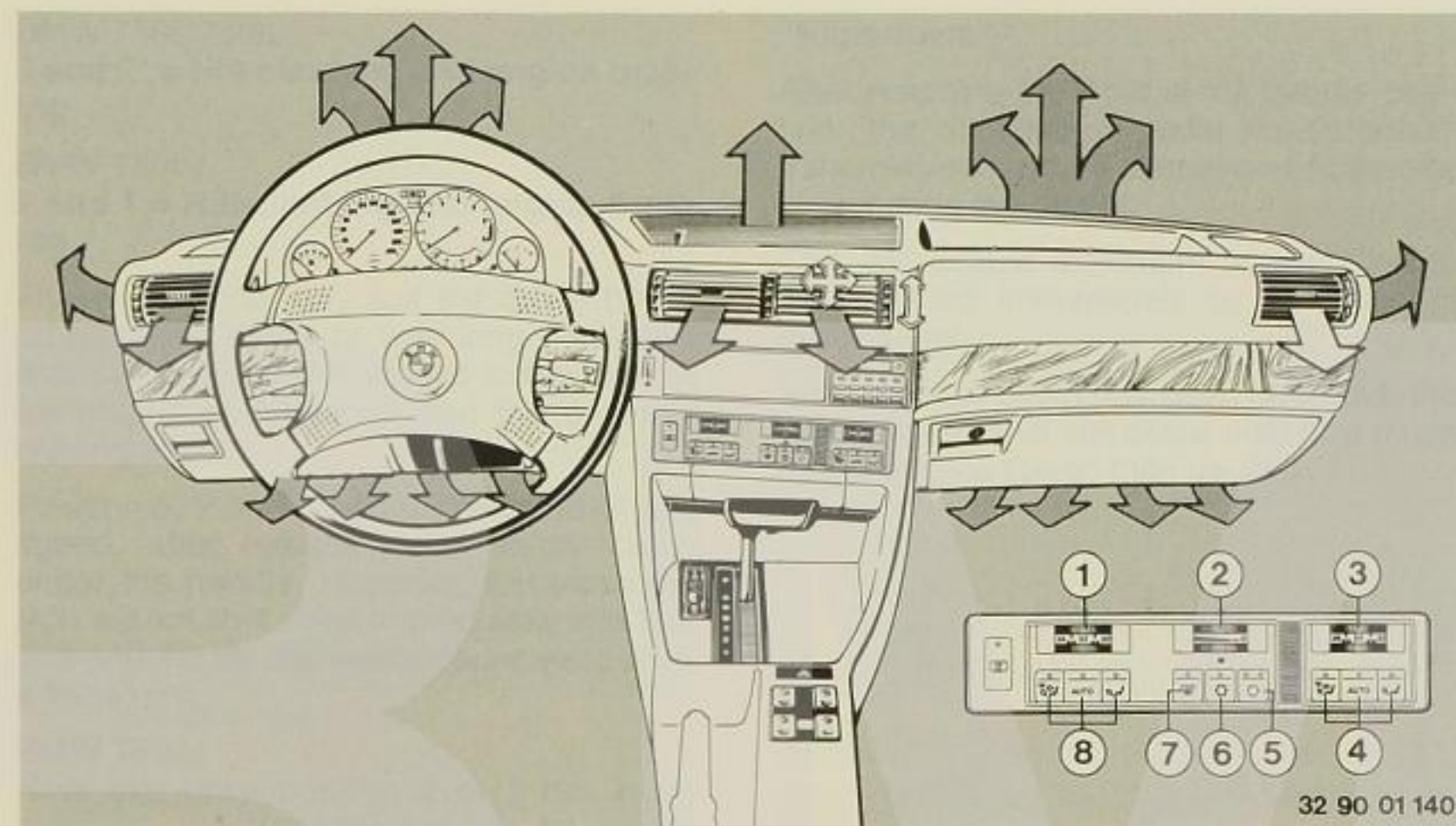
Unexpected and possibly sudden vehicle movement may occur if these precautions are not taken.

Warning:

Never have any driving position engaged when checking under the hood.

Never leave children unattended in the vehicle.

For towing and starting with a dead battery, see pages 64, 66.



Automatic Climate Control

- 1 – Rotary temperature control driver's side
- 2 – Rotary blower control
- 3 – Rotary temperature control passenger's side
- 4 – Program pushbutton for air distribution on the passenger's side
- 5 – Pushbutton for recirculated air
- 6 – Pushbutton for air conditioning
- 7 – Pushbutton for maximum defrost settings front, side windows and rear window
- 8 – Program pushbutton for air distribution driver's side

When pressing a pushbutton its respective LED will come on when the system is switched on with the rotary blower control (2).

1, 3 – Rotary temperature controls, driver's/passenger's sides

With the **driver's side** rotary temperature control the temperature control can be switched on or off:

In the full cold position: no heating, temperature control switched off.

Turn to the right: temperature control switched on.

In the full warm position (detent position): maximum heating, temperature control switched off (in case of an electronic failure, this position provides emergency operation of the temperature control).

The temperature scale acts as a guide when selecting a pleasant interior temperature. The chosen setting will be reached soon after starting a trip and no further adjustments should normally be necessary.

To prevent undesirable fluctuations in temperature, alter the setting in small stages only.

2 – Rotary blower control

Position 0: switched off, no air admission; turn the rotary switch to the detent position for a low blower speed.

Turn to the right to increase the volume of air supplied to the car's interior.

Turn to the right (detent position): maximum air admission (in case of an electronic failure, this position provides emergency operation of the electronic blower control).

4, 8 – Program pushbuttons for air distribution passenger's/driver's side



Automatic air distribution depending on the temperature conditions

Air admission: through defroster outlets to the windshield and front side windows, the outlets in the instrument panel which are variable for direction and intensity and the footwell outlets in front and rear, through the rear outlets at the end of the center console which are variable for direction and intensity.

After a cold start at low outside temperatures and until the heater reaches a temperature of 86°F (30°C), air distribution only takes place through the defroster outlets.

Using this program will satisfy most demands for a pleasant interior temperature. To obtain maximum air distribution do not close all air outlets at the same time.



Air distribution through all outlets without automatic air distribution

This program should be selected if, in hot weather, cooling and ventilation especially of the lower regions of the car is desired.

Note: If under certain circumstances the windshield and side windows start to fog up, but the maximum defrost setting (Pushbutton 7) is not requested, press this button and increase blower speed and reduce the airflow at the outlets.



Air distribution only through front and rear footwell outlets

The defroster outlets are only slightly opened, no air distribution to the outlets at the end of the center console.

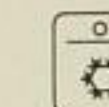
This program should be selected if, in cold weather, no air admission is desired and if you want the footwell area to be heated quickly.



Pushbutton for recirculated air

This program should be selected when outside air is polluted – fresh air flow from outside is cut off, inside air is only recirculated.

Although air conditioning is switched on automatically, this position should not be used too long.



Pushbutton for air conditioning

When pressing the pushbutton the air conditioning operates above a temperature of 33°F (1°C) in all programs.

In exceptional cases, for instance if atmospheric humidity is extremely high, it is best to run the air conditioning without delay (before moisture condensate can reach the evaporator) to dry the air and prevent the windows from fogging over.

To avoid fogging over on the outside, do not direct **cooled** air to the windshield.

When cooling with maximum power the system is switched to recirculated air automatically (with little fresh air admission) and the defroster outlets are closed.

7 – Pushbutton for maximum defrost settings-front, side, and rear window

Press button for automatic defrosting.

If the windows fog over, this is caused by temperature difference (condensation) or by high atmospheric humidity. The only cure is to dry the glass by increasing the flow of air and its temperature.

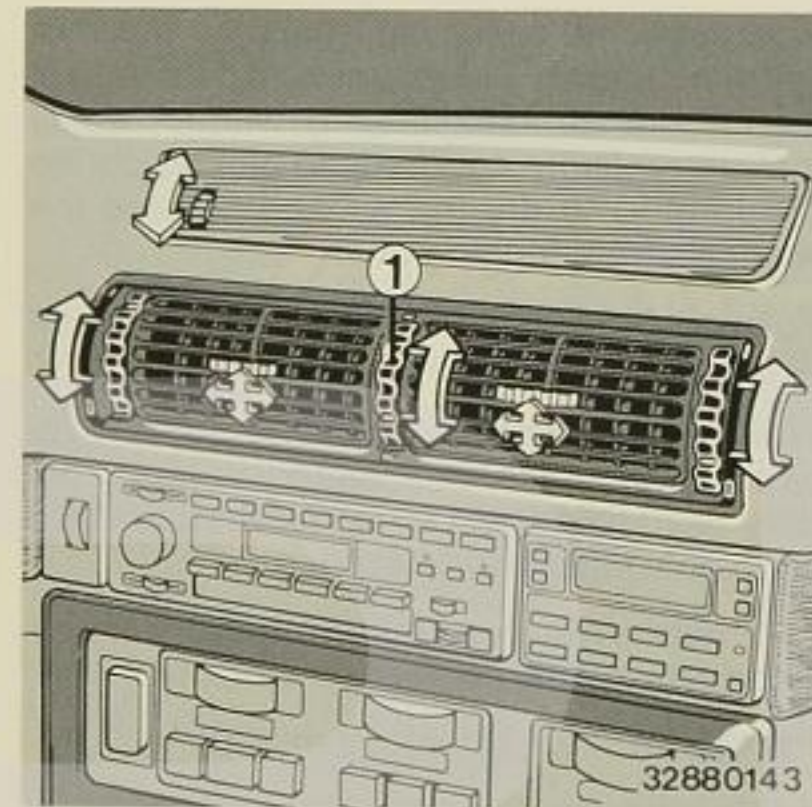
After pressing this pushbutton maximum defrost of the windshield and side windows is obtained. i.e. no further adjustments should be necessary.

Maximum effect is not obtained until the engine has reached its normal operating temperature.

When unlocking this pushbutton the preceding setting will be reestablished.

Note: When this pushbutton is first pressed after the engine has been started, the rear window defogger is also in operation.

When switching off the engine, the electrical controlled air inlet flaps are repositioned which causes a light noise.



Stratified temperature pattern conducive to fatigue-free driving

Driver's and passenger's sides:

Air entering through the outlets at the instrument panel can be varied by the knurled wheel (1) (not when air conditioning is operating at maximum):

up – warmer
down – cooler

Rear passengers:

The outlets at the end of the center console can be opened and directed as desired for fresh air admission only (respectively cooled air when the air conditioning is in operation).

Air distribution to the rear compartment is automatically stopped when pushing the driver's side button:

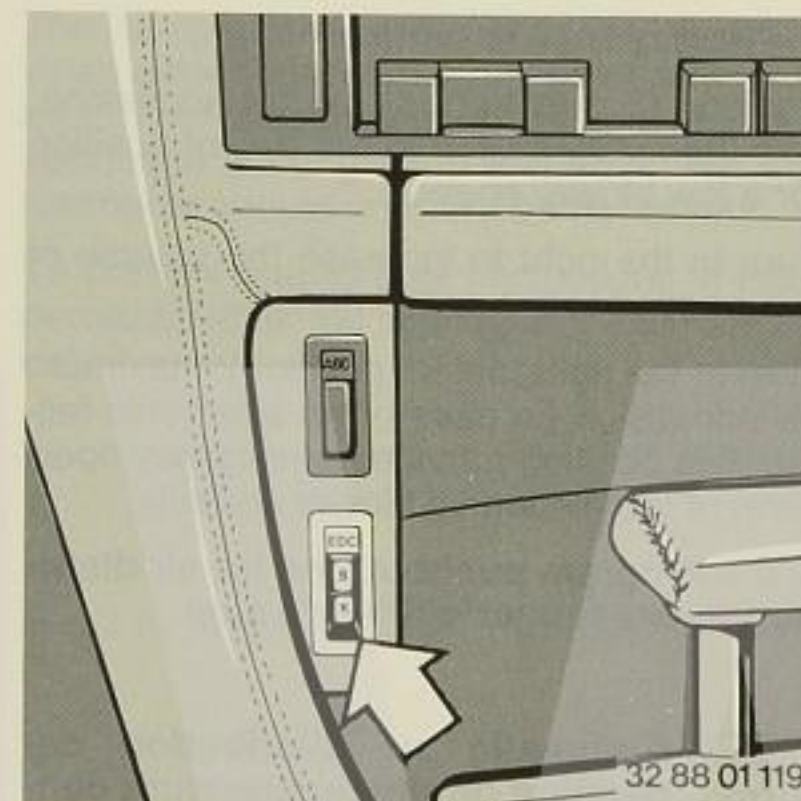
- AUTO (only in cold weather).
- Air distribution through footwells front and rear.

Important notes:

- The air conditioning system operates only when the engine is running.
- When the air conditioning is switched on, at least one air outlet must be open, or else the evaporator may ice up.
- The air conditioning should be run briefly at least once a month. This is particularly important during the cold season of the year, to prevent the compressor shaft seals from drying out and allowing refrigerant to escape.
- If any malfunction of the air conditioning is noted – for instance air conditioning rotary temperature control on the driver's side is in maximum position for cooling and still no cooled air is supplied – the system should be switched off at once and the car taken without delay to a BMW dealer.

Microfilter

Outside air is drawn through a microfilter. Pollen is filtered out 100%, dust particles up to 60%. Filter changing is part of the BMW Maintenance System. A reduced airflow indicates an earlier than normal filter change.



Electronic Damping Control (EDC) *

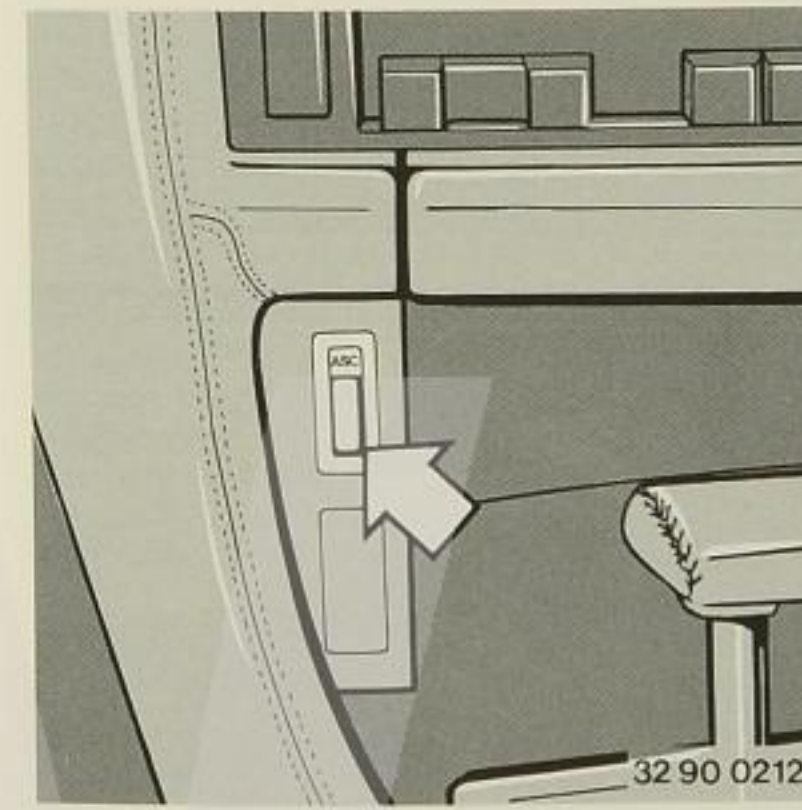
The system ensures automatically the desired degree of suspension damping and thus enhances both safety and ride comfort.

Switch positions:

K – Comfort program
S – Sport program

Changing the program is possible at any time. In ignition key position 2, the selected position is illuminated.

The selected program can be retained throughout the car's speed range and with any load on the car. If the influencing factors vary (road surface quality or operating conditions such as steering, braking etc.), the damping force is adjusted in a few fractions of a second to suit the new situation.



Automatic Stability Control + Traction (ASC+T) *

The system increases the car's stability particularly when accelerating or when cornering.

It avoids rear wheel slipping and ensures optimum traction of the driven wheels, even if driving and road conditions are unfavorable.

The system is ready for operation automatically whenever the engine is started.

The indicator light in the instrument panel goes out.

To switch off: press button, the indicator light comes on.

To re-activate:

Press button again, the indicator light goes out.

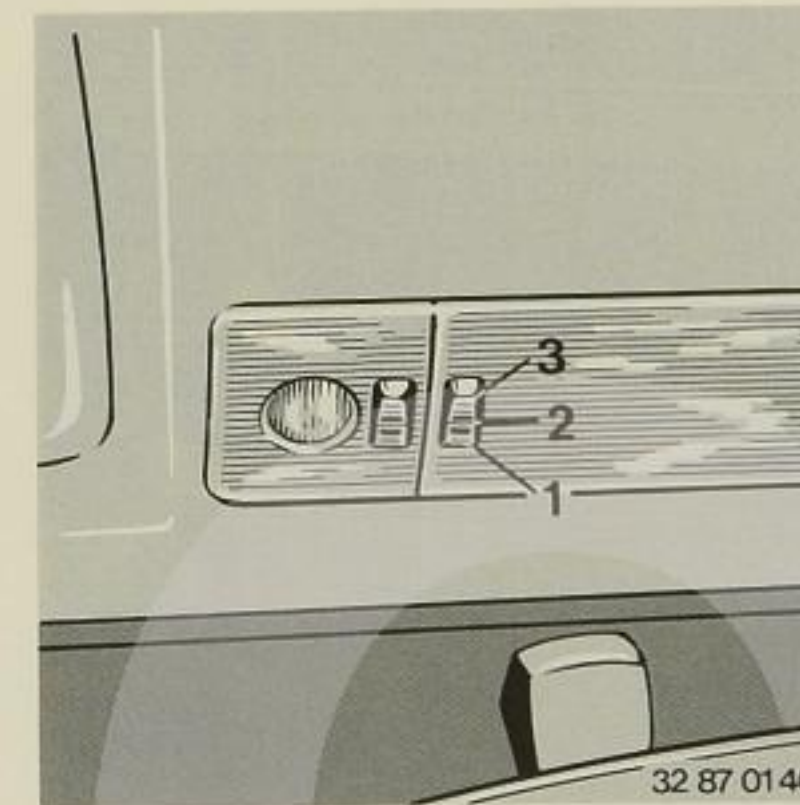
Indicator light flashes:

The system is active, slipping wheels trigger the device to influence the amount of power transmitted to the driving wheels.

Indicator light stays on after the engine has started or comes on while driving: System has developed a fault, the vehicle can still be driven normally. Consult a BMW dealer.

Interior light switch

Position 1: light is on when a door is opened and until the ignition is switched on and remains on until the ignition is switched on; after the ignition is switched off and the doors are closed it goes out with a delay, or after an accident or hard bump.



Position 2: light permanently off.

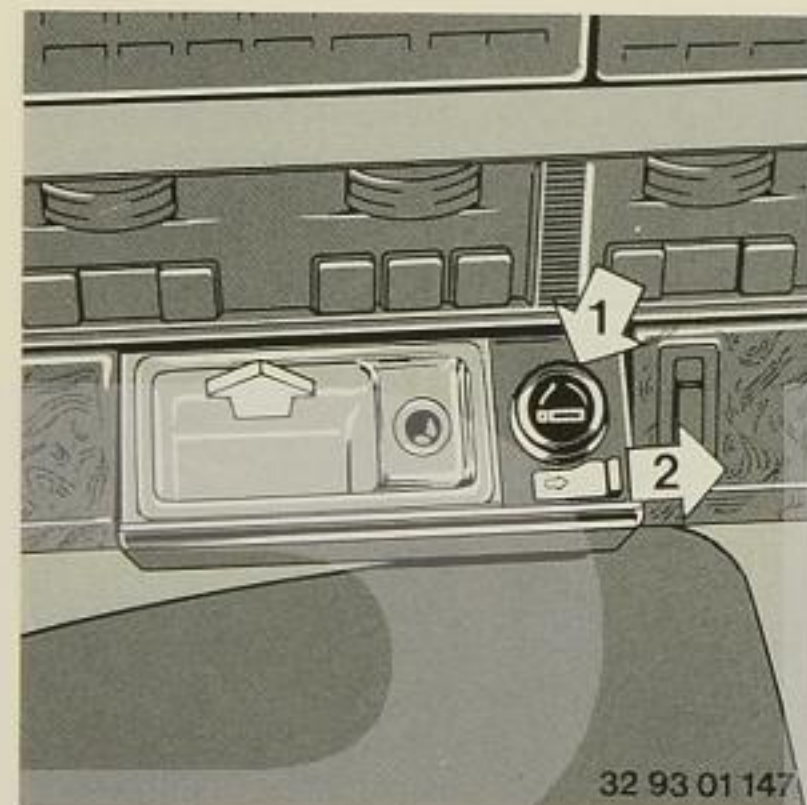
Position 3: light permanently on.

The map-reading lights beside the front interior light are operated equally.

The **map-reading lights** for the passengers in the rear can be lit with the appropriate switch when the ignition key is in position 1.

The **interior light** is automatically switched on by lifting the driver's door handle (after the third operation there will be an extended delay).

When switching off the ignition and the car's lights having been on, the interior light comes on.



Cigarette lighter

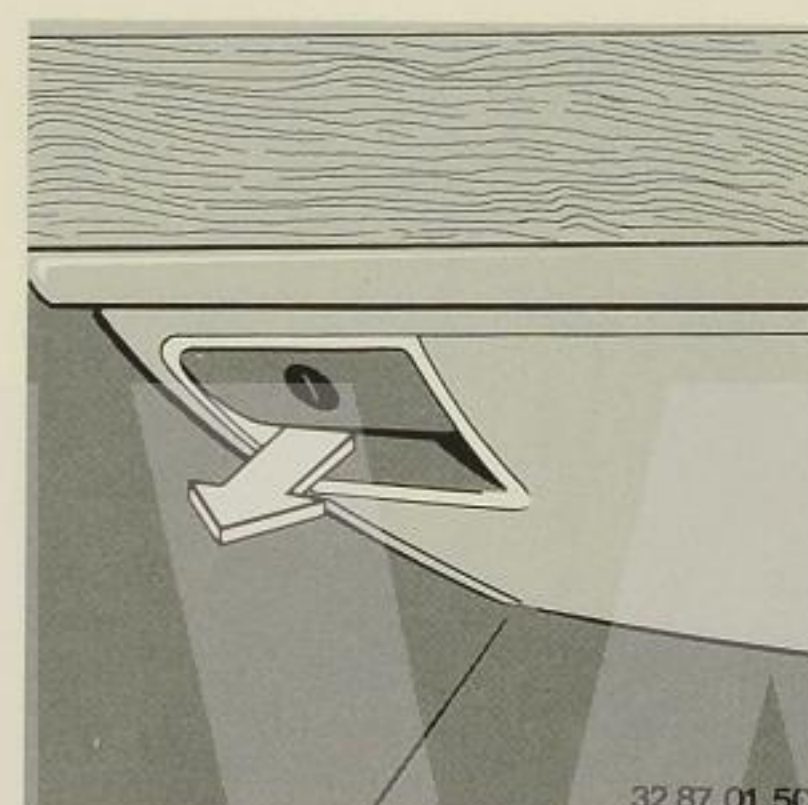
To use the **cigarette lighter**, press in the knob (1). When the heating element has become sufficiently hot, the knob will pop out and the lighter can then be removed from its socket.

Warning:
Never touch the heating element or the side of the lighter, hold the knob only.

To extinguish the cigarette use the funnel in the ashtray.

To clean the front ashtray:

Push lever in shown direction (arrow 2). Remove the ashtray.



Glove box

To limit the access to the glove box, when leaving the vehicle with a valet parking service, lock it with the master key.

With the key for doors and ignition the glove box can not be re-opened.

Open the glove box by pulling the recessed handle and close by pushing the lid up firmly.

When opened, the glove box can be pulled out for easy driver access. With the ignition key in position 1 the glove box lamp lights up.

Changing the bulb:
Press the clip at the lamp with a screwdriver, pull out the lamp and change the bulb (5 Watt).

To clean the rear ashtray:

Open the flap and pull the whole assembly up.

Cigarette lighter for rear passengers: at the end of the center console.

Warning:
Never use ashtrays as litter bins. Fire hazard!

Cigarette lighter and socket remain functional after the ignition key is removed. Therefore, never leave children inside the vehicle unattended.

The **socket** can also be used to plug in accessories such as a hand lamp, electric shaver or similar appliance rated at not more than 200 Watt, 12 Volt. Make sure that the socket is not damaged by attempting to insert plugs of the wrong pattern.

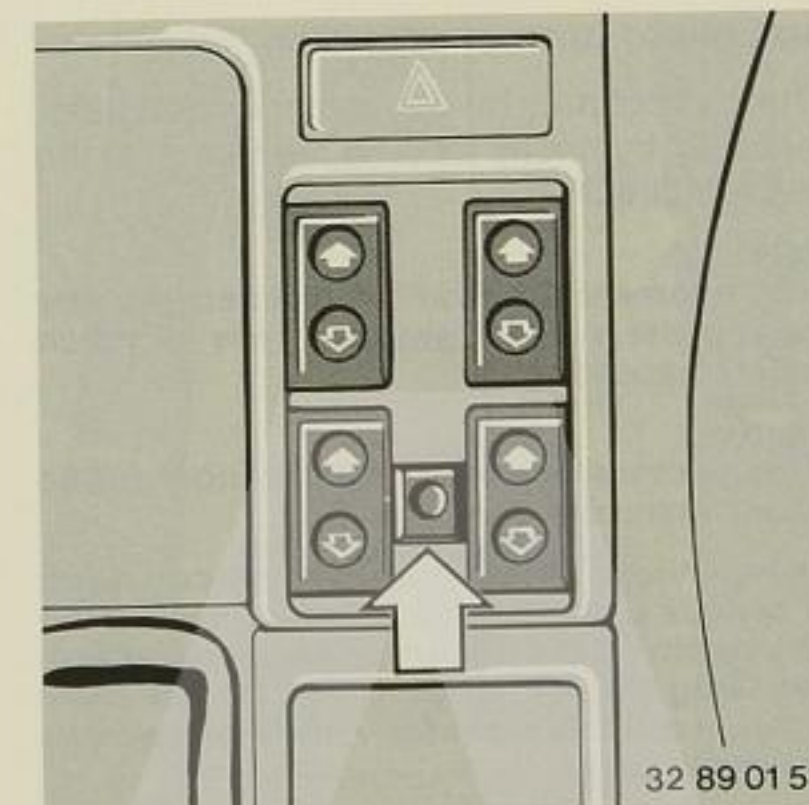
When the glove box lid is open, the glove box light will come on with the ignition key in position 1 and the **flashlight** plug can be reached. The flashlight has a built-in-overload device and can thus remain plugged in at all times so that it is fully charged whenever needed.

Caution:
Do not plug the flashlight in while it is still switched on.
To reduce the risk of personal injury in an accident or sudden stop, keep glove box closed while driving.

Coin box (only on vehicles without Airbag):

Press latch to open the flap at the left side of the steering column.

Further storage possibilities are in the armrests and behind the front backrests.



Electric window lifts

All windows are operated from the pushbuttons on the center console when the ignition key is in position 2.

The rear windows can be operated separately with the switches below the windows.

Toll Circuit

As an additional convenience, the driver's front window can be fully opened or closed automatically by briefly tapping its pushbutton. To stop the movement while in tapping function: tap again or interrupt the automatic function by pressing any of the pushbuttons.

Additionally, opening or closing is still possible if the ignition has been switched off and the key has been removed or until one of the front doors have been opened.

After the doors have been closed, hold the key in the door in either locking position. The windows will close.

Warning:
The electric window lift features high pressure sealing to prevent wind noise and therefore requires powerful motors to achieve efficient closing in all conditions. Care must be taken when closing the windows to ensure that they are not obstructed.

In particular, the **safety pushbutton** (arrow) which prevents the function of the rear window switches should always be engaged when children are carried in the rear of the car to avoid inadvertently trapping their fingers in the windows.

Unsupervised use of these systems can result in serious personal injury. Before leaving the car, switch off the electric sunroof mechanism by taking out the ignition key. Do not leave children unattended in the vehicle with access to vehicle keys.

Do not put anything on or near the windows that may interfere with the driver's vision.

An automatic **circuit breaker** protects the systems in the event of a fault or overload.



Sunroof

Raising the rear: Press the switch.

To open: Push the switch to the rear.

To close: Push the switch to the front.

Convenience closing function after the doors have been closed: hold the key in the door in locking position to close the sunroof.

To avoid unpleasant drafts or vacuum when driving with an opened or raised sunroof do not close airflow outlets. If necessary increase the amount.

Automatic sunroof operation

The sunroof may be opened or closed automatically by briefly tapping the switch in the desired direction.

Note:

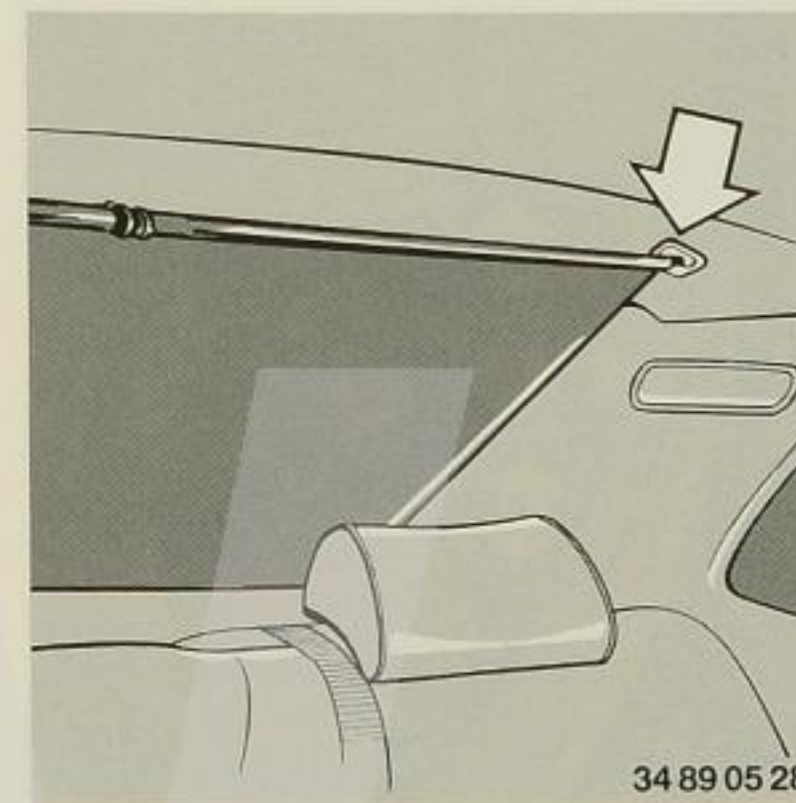
This automatic function can be interrupted by tapping the sunroof switch in any direction (safety feature).

Warning:

If the electrical system fails the sunroof can be closed manually. See page 71.

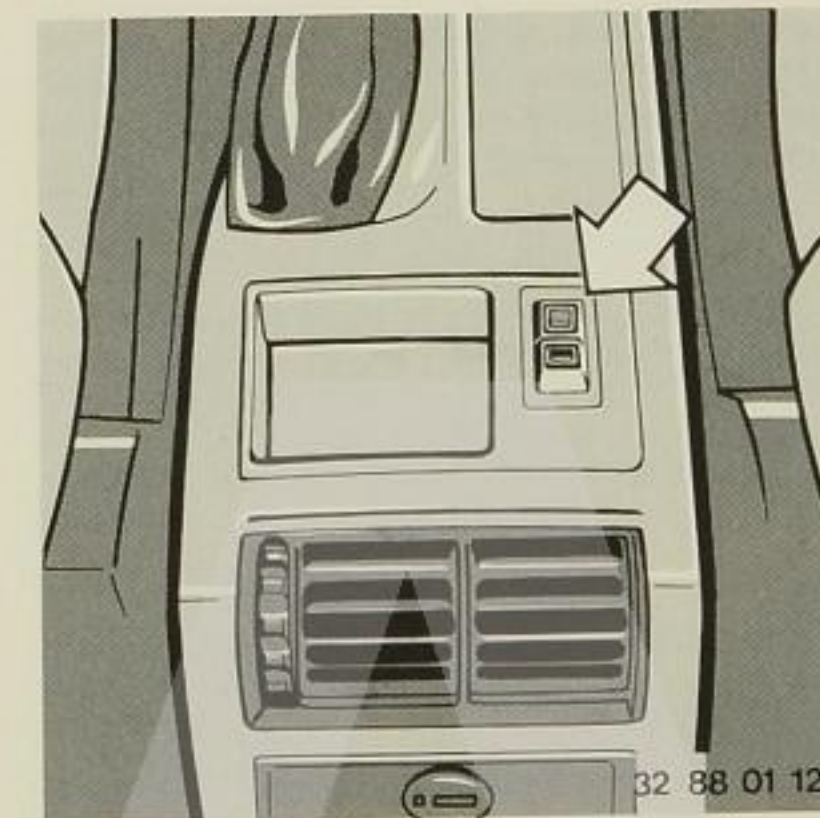
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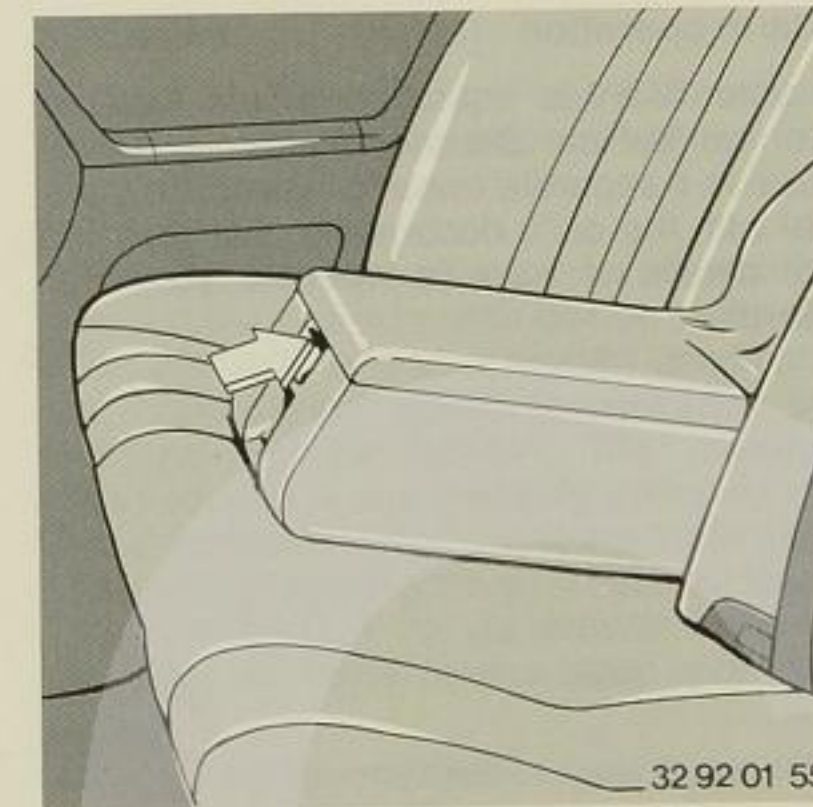
Sun shade * for rear window (manually operated)

Pull out the sun roller and secure in the catch.



Sun shade * for rear window (electrically operated)

Press the rocker switch briefly to operate the sun shade.



Rear center armrest

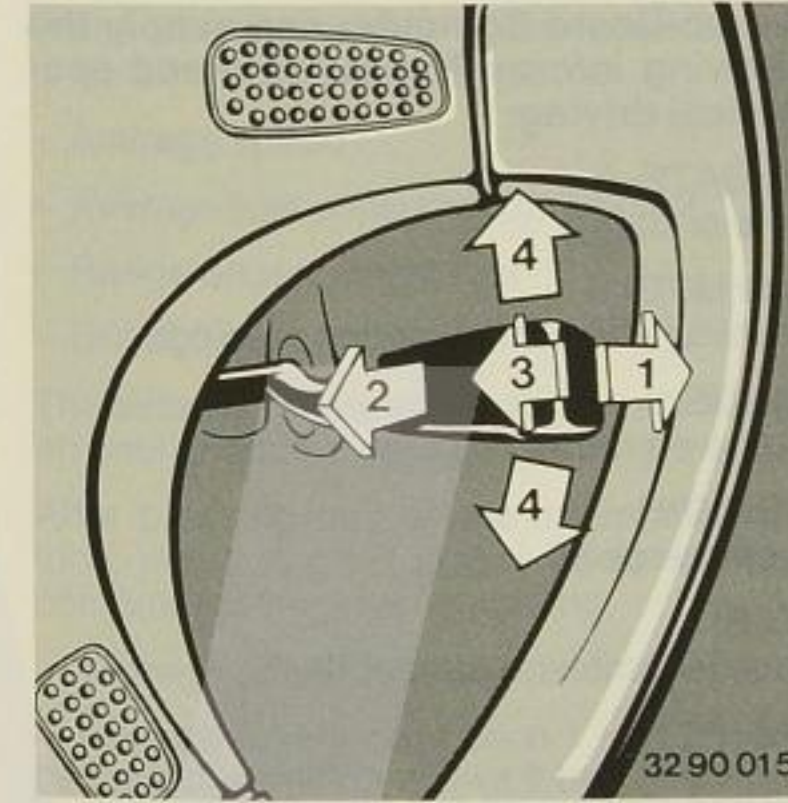
To open the shelf press the button.

Front armrests

Press button at the front to unlock.

Alarm operation

If your BMW is equipped with a Remote Control Vehicle Security System, you will receive a separate owner's instruction manual with the car's documents; this contains full details of **how to operate your car alarm**.



Automatic Cruise Control

This system allows adjustment for a constant cruising speed in the speed range above 25 mph (40 km/h).

1 ACCELERATE

Tapping the lever: Speed will be held and memorized. With each tap the speed increases approx. 0.7 mph (1 km/h).

Holding the lever in this position: Your vehicle accelerates without using the accelera-

tor pedal. After releasing the lever the achieved speed will be maintained and memorized. The controlled speed will be interrupted and has to be resumed if the memorized speed has exceeded 7 mph (10 km/h) for longer than one minute.

Note: If your vehicle is equipped with an electronic engine power control (EML) and you have exceeded the cruising speed by about 10 mph (16 km/h) resp. reduced by about 5 mph (8 km/h) the achieved speed has to be resumed.

2 DECELERATE

Holding the lever in this position: Your vehicle decelerates automatically if cruising with controlled speed. After releasing the lever the achieved speed will be maintained and memorized.

Note: With electronic engine power control (EML) your vehicle decelerates automatically.

After releasing the lever the achieved speed will be maintained and memorized. Tapping the lever: Decelerating for approx. 0.7 mph (1 km/h) when cruising with controlled speed.

Note: With electronic engine power control (EML) speed will be held and memorized. With each tap the speed is decreasing or approx. 0.7 mph (1 km/h).

3 RESUME

Tapping the lever: The last memorized speed will be achieved and maintained.

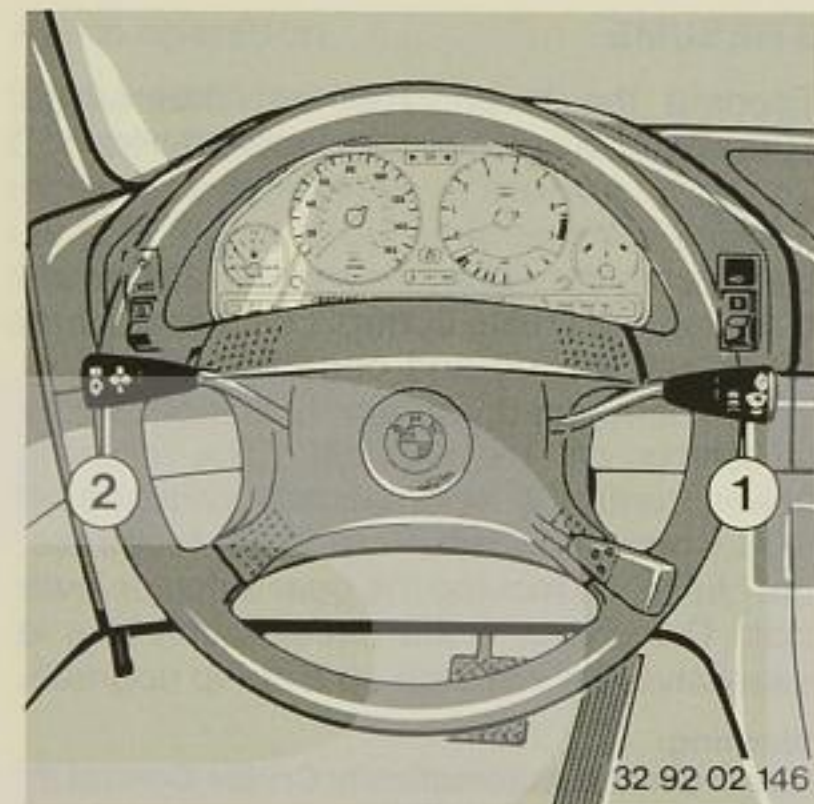
4 OFF

By tapping the control lever in a downward direction the cruise control can be switched off in any driving and operation condition. The "memorized" speed is cancelled by switching off the ignition. The cruising speed control is automatically switched off in any operation when using the footbrake, the clutch, by moving the gear selector lever from D to N, or if the deceleration rate is excessive, for instance on a steep upgrade.

Warning:

Never use the Automatically Cruise Control if:

- you are in heavy traffic;
- the road is winding and where a constant speed cannot be maintained;
- the road surface is slippery - rain, snow, ice;
- the road surface consists of a loose driving surface - gravel, dirt, sand.



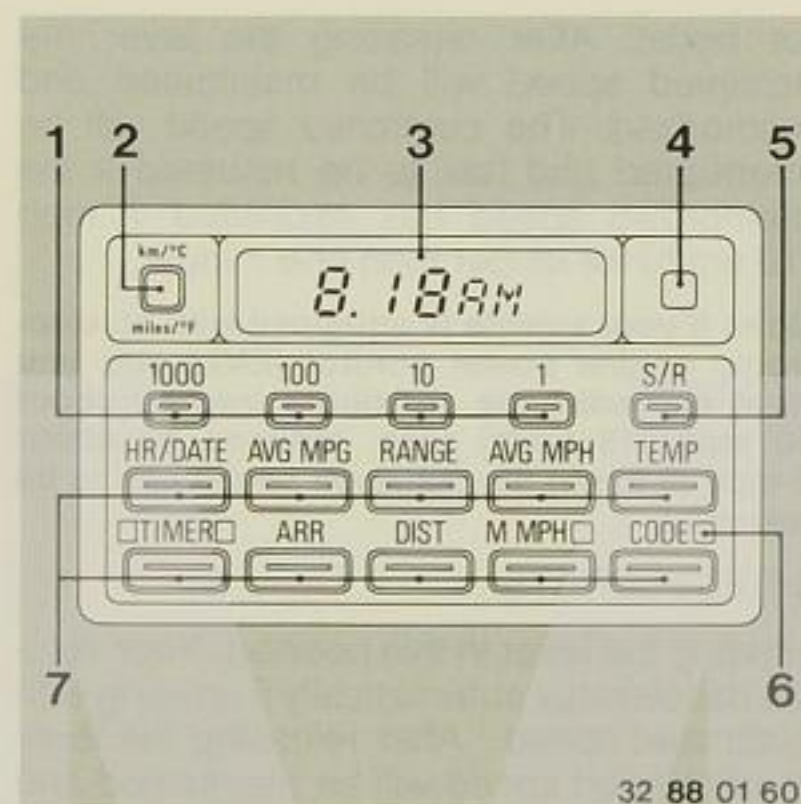
Remote control Cellular Mobile Telephone *

With the help of the windshield wiper/washer- and turn signal lever you can call up your telephone memory address in the graphic display of the instrument panel and place a telephone call.

- 1 Press lever to:
 - start displaying the memory address
 - place a telephone call of the appropriate displayed address
 - cancel the display
- 2 Press lever to:
 - scroll the memory address.

In order to take maximum advantage of the many features of your Cellular Mobile Telephone, refer to the separate Owner's Manual.

Servicing can be performed by your BMW dealer.



On-Board Computer

- 1 – Four numerical input buttons
- 2 – Changeover switch for unit of measure
- 3 – Digital display
- 4 – Photo-transistor for display brightness
- 5 – Set/Reset button
- 6 – Light-Emitting Diodes (LEDs)
- 7 – Information buttons

The On-Board Computer can supply the following information for safe and economical driving:

HR-DATE
Time or date

AVG MPG
2 average fuel consumption readings

RANGE
Range on remaining fuel

AVG MPH
Average speed

TEMP
Outside (ambient) temperature

TIMER
Stopwatch and 2 switch-on times for parked car ventilation

ARR
Estimated time of arrival

DIST
Distance from destination

M MPH
Speed limit warning

CODE
Vehicle immobilization for anti-theft protection

The computer is ready for use at ignition key position "1" and beyond.

For safety reasons, always **input information before** beginning a trip with the vehicle at a standstill.

Press the appropriate "information button" to obtain the following displays:

- Average speed
- Average fuel consumption 1 and 2
- Range on remaining fuel
- Outside temperature

The selected information display will remain on until another display button is pressed.

After pressing one of the information buttons, press the S/R button (5) to reset the computer to begin recomputing:

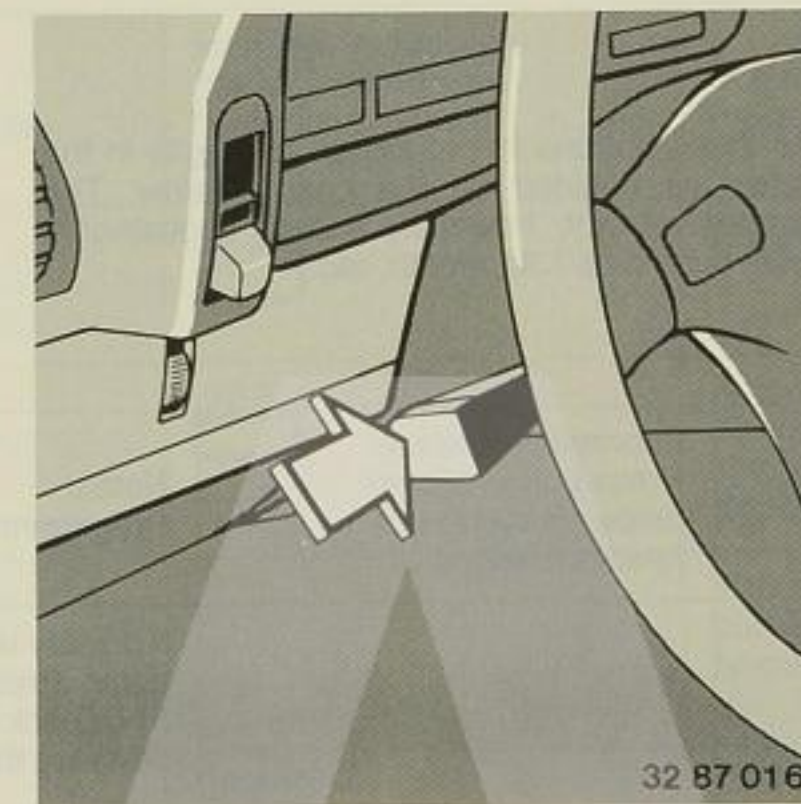
- Average speed
- Average fuel consumption 1 and 2
- To start and stop the stopwatch function and in function HR-DATE an hourly signal can be activated and deactivated.

The entering of numerical inputs for:

- Time/date
- Speed limit warning
- Switch-on times 1 and 2
- Distance from destination (used to estimate the time of arrival)
- Vehicle immobilization for anti-theft protection

are described on the following pages.

After selecting the appropriate information key, the unit of measurement changeover switch (2) can be used to display the information (not applicable to CODE) in either metric or U.S. units.



Remote control

By pressing the turn signal lever in the direction shown in the figure, the display will appear in the Check Control.

Press the turn signal lever consecutively until the desired function is displayed. The On-Board Computer display remains unchanged when other items are shown on the instrument panel.

To extinguish the display on the instrument panel, press the Check Control button on the instrument panel or the CODE key.

Note: The display of Check Control warnings takes priority over information from the On-Board Computer.

If only a limited amount of information on the instrument panel display is required program as follows:

- Press the turn signal lever in for 3 seconds, until the PROG 1 display appears (on the On-Board Computer: P 1).
- Press the desired information button (if only average fuel consumption 2 but not average fuel consumption 1 is required, press the units of measurement changeover switch after the AVG MPG button. Each time the changeover button is pressed again, fuel consumption readings 1 and 2 will alternate. The same procedure applies to the date and switch-on time 2 inputs).
- Press the S/R key.

To cancel the programmed informations on the instrument panel display:

- Press the turn signal lever in for 3 seconds, until the PROG 1 display appears (on the On-Board Computer: P 1).
- Press the S/R key.

If the power supply to the On-Board Computer is interrupted, e. g. when changing the battery, all stored data are erased.

Once the power supply is reconnected, the required information data (time, date, speed limit warning, distance and switch-on times if required) must be input again.

Contact a BMW service station if the fault display PPPP appears.

Input and information displays

1000 100 10 1





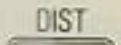
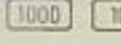
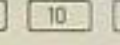



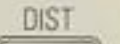
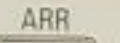
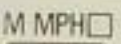
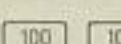


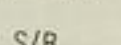
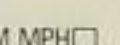
Use these buttons to program the digits in the display as outlined on the charts below. The memory will not, however, accept unattainable inputs such as a 13th month, etc.


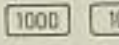
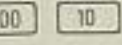
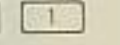


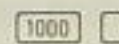

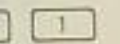

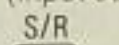
When a digit is entered, the previous digit stored in the memory is erased. Digits can be changed individually and in any order.

When a button is pressed (or after each half second if the button is held in), the corresponding display digit increases by one digit.

Function	Input: Press buttons in the sequence shown below	Information display: Press button shown below for display of function desired	Notes: Programming information and display description
Time (Date)	<p>HR/DATE</p> <p>Hour (Month) Min. (Day)</p> <p>S/R</p>	<p>HR/DATE</p>	<p>If display is — — — — HOUR (after power failure); input time again. Press the 1000 button twice to alter display from AM to PM. Clock can be started after input to the nearest second by pressing the S/R button (e. g. when a radio time signal is heard).</p> <p>Date input as for time. After pressing the S/R button the year is displayed. Input the correct year if necessary and press the S/R button again.</p> <p>To update the hour/date: press button to display appropriate information. Change inputs and press S/R.</p> <p>To obtain date display from other information: press HR/DATE button twice.</p> <p>Hourly signal: select HR (HOUR) function, then press S/R button; a sound symbol is displayed. Three pips are heard just before each full hour. The time is displayed briefly on the instrument panel strip.</p> <p>To switch off reminder signal: in the HOUR function; press S/R again. To obtain time and date display in ignition key position 0: press the HR/DATE button.</p>
Average consumptions 1 and 2	<p>AVG MPG</p> <p>S/R</p>	<p>AVG MPG</p>	<p>Recalculated since start of trip when S/R button is pressed. Repeated use of the AVG MPG button selects average consumption values 1 and 2 alternately; an indication of which value has been selected appears on the digital display for a short time.</p>
Range	—	<p>RANGE</p>	<p>Plus sign (+) in front of display indicates "full tank".</p>

Function	Input: Press buttons in the sequence shown below	Information display: Press button shown below for display of function desired	Notes: Programming information and display description
Average speed	<p>AVG MPH</p> <p>S/R</p>	<p>AVG MPH</p>	<p>Recalculated from start of trip when S/R button is pressed.</p>
Ambient temperature	—	<p>TEMP</p>	<p>Automatic temperature display below +37.5° F (3° C). Chime sounds and unit of measurements flashes for 8 seconds. The temperature value is displayed briefly in the instrument display.</p>
Stopwatch — Start	<p>TIMER</p> <p>S/R</p>		<p>There is no stopwatch function in cars with an independent fuel-burning heater/ventilation system. When the stopwatch functions is running, the LED lights up.</p>
— Intermediate time	—	<p>TIMER</p>	<p>LED flashes, stopwatch continues to run. Press the TIMER button again: the running stopwatch display will reappear.</p>
— Stop	<p>TIMER</p> <p>S/R</p>	—	<p>To stop the stopwatch when another display is shown. Otherwise, simply press S/R. Press S/R again to restart the stopwatch.</p>
Parked car ventilation — Preselecting switch-on times 1 and 2	<p>TIMER</p> <p>TIMER</p> <p>1000 100 10 1</p> <p>S/R</p>	<p>TIMER</p> <p>TIMER</p>	<p>Input is possible only when the clock is in operation. With the TIMER function selected, press the button once only; for switch-on time 2, press it again (confirmed on display). When the LED comes on, the ventilation system will run for 30 minutes from the selected switch-on time. During the actual period of operation, the LED flashes. It goes out when the system is switched off. To correct the switch-on time, follow the same procedure as for initial inputs.</p> <p>After selecting the switch-on time 1 or 2 inputs; activate or deactivate the timer by pressing the S/R button. When activated, the appropriate LED comes on.</p>

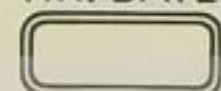
Function	Input: Press buttons in the sequence shown below	Information display: Press button shown below for display of function desired	Notes: Programming information and display description
Parked car ventilation system – Immediate switch-on	 → 	–	When the TIMER key is pressed, the current inputs to the independent heater/ventilation system are displayed. Direct heater operation in ignition key position 1.
– Immediate switch-off	 → 	–	Switching off also possible in key position 0. In the TIMER function, press S/R key only.
Distance to destination	     		If the preset distance is exceeded, the additional distance is still counted, but preceded by a minus sign.
Estimated time of arrival	–		The probable arrival time on the basis of the distance input is continuously recalculated according to driving style at any given moment. This information is only available after a distance has previously been input. If the distance has already been completed, the DIST function appears instead of the ARR function. If selected from another function, – – – – ARR is displayed.
Speed limit warning	    		If the input speed limit is exceeded, the LED flashes and a chime sounds. The limit value appears briefly on the instrument panel display. Press the information button again to switch off the speed limit warning: the LED will go out, but the speed value in the memory is retained. To store the speed at any given moment in the memory: in the M MPH function, press the S/R button.

Function	Input: Press buttons in the sequence shown below	Information display: Press button shown below for display of function desired	Notes: Programming information and display description
Anti-theft protection – to activate and immobilize car	Ignition key in position 1      	–	Code numbers from 0000 to 9999 can be input. Important: memorize the code number! Ignition key turned to 0 : LED comes on for up to 36 hours.
– to cancel	Ignition key at 1 or 2     (Input code)  or start engine	–	Warning: If 3 incorrect inputs are made consecutively, or 3 attempts are made to start the engine, an alarm sounds for 30 seconds.

Further information on the On-Board Computer

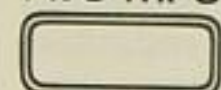
(Changes in information programs are only possible after pressing the relevant information button.)

HR/DATE



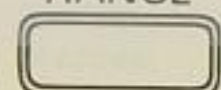
The Time and date are displayed alternately by pressing the button. The date display disregards leap years and must be corrected manually as appropriate.

AVG MPG



By giving the instruction to restart calculation at a carefully selected moment, average consumption for the entire trip and part of it can for instance be calculated at the same time.

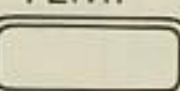
RANGE



By pressing this button, the estimated distance which can still be covered with the fuel remaining in the tank is computed continuously according to driving style and displayed when selected. Below a range of 9.3 miles (15 km), a flashing four-segment display indicates that more fuel is urgently required.

The On-Board Computer only registers the addition of fuel in ignition key positions 1 and 0, and when at least 5 liters of fuel are added. A plus sign (+) before the display indicates that the car has a greater range than indicated, as a result of limits in recording fuel level in the tank.

TEMP

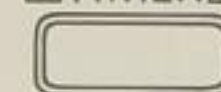


The warning chime sounds again if the temperature has increased to 43°F (+6°C) at least once since the last warning signal, then dropped below 37.5°F (+3°C) again.

Warning:

The outside temperature display is no indicator for possible ice on the road. Ice can form or remain even at temperatures above freezing.

TIMER



The maximum time which can be measured is 88 hours 59 minutes. The time display shows seconds and tenths of a second for the first minute, then minutes and seconds, and hours and minutes after the first hour. The stopwatch is halted when the ignition key is turned to position 0, and restarts when it is turned to position 1 or beyond.

Parked car ventilation system:

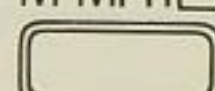
Above an outside temperature of 16°C, the independent ventilation system can be run to ventilate the car's interior and lower its temperature.

If the button is pressed again when other information is being displayed, the following information can be obtained in succession: current situation, switch-on time 1, switch-on time 2, current situation again etc.

Air emerges through the controlled-flow, directional grilles on the fascia. For efficient operation of the independent ventilation system, these grilles must therefore be fully open.

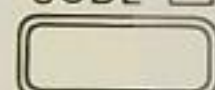
The independent ventilation system is out of action in ignition key position 2.

M MPH



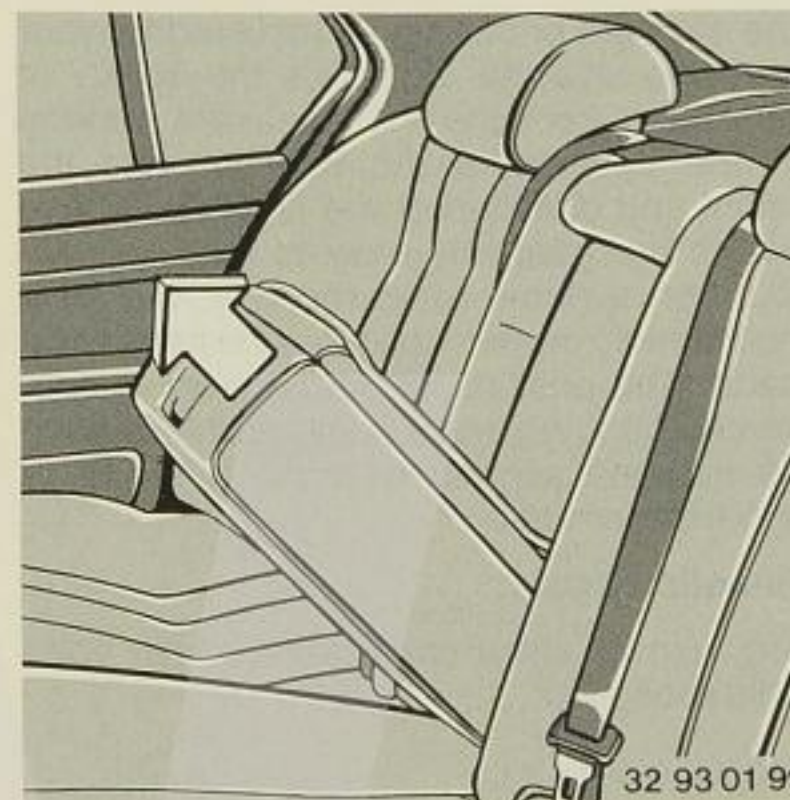
A new speed limit value can be input or displayed. The chime will sound again if the car has slowed down by 3.1 miles/5 km/h or more at least once since the chime first sounded and then been accelerated up to the input speed limit again.

CODE



When the system has been activated, the engine compartment lid, radio and any attempts to start the engine are monitored. If the engine compartment is not properly closed or the radio is removed, the LED flashes for 10 seconds when the ignition key is turned to 0.

If the ignition key is turned to 1 or 2 with the system activated, the gong will sound and a ---display will appear. This requires the code to be input. If the engine is started without a code input having been made, the alarm sounds for 30 seconds and the engine will not start.



Removing and installing rear center armrest

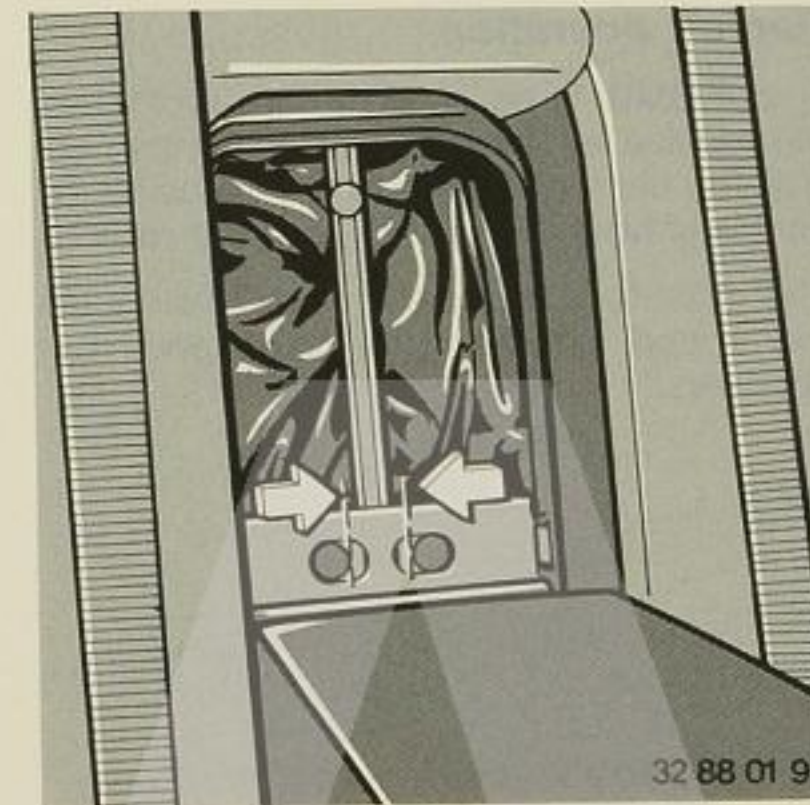
Removal

Fold down armrest half-way and pull sharply forwards with both hands.

Installation

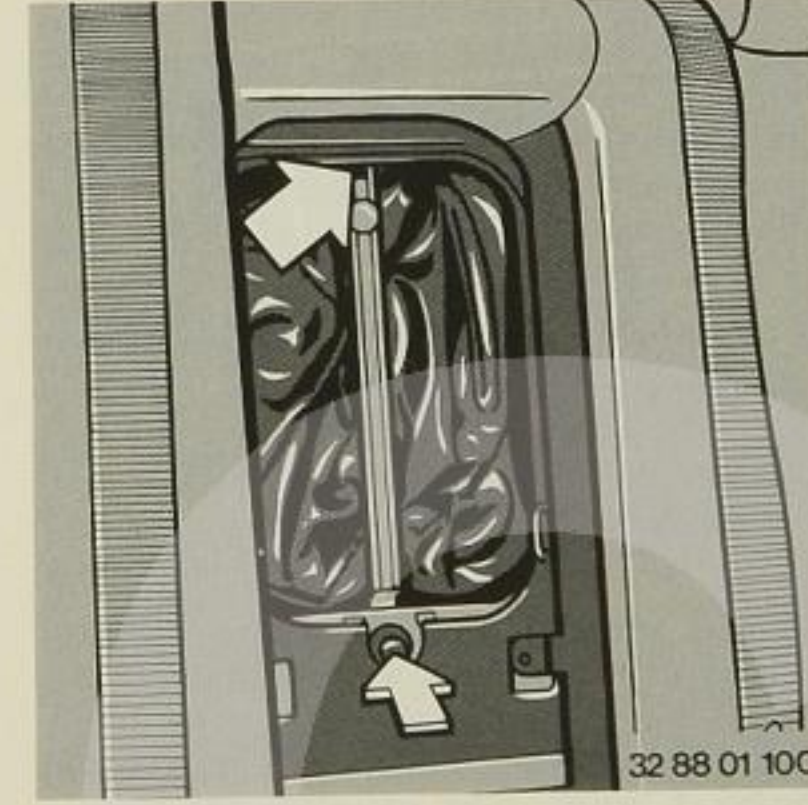
Insert the armrest in the bracket in the same position as when removing it and push down sharply to engage.

When removing and installing the armrest, watch the pivot in order to avoid damaging the seat covers.



Ski bag

Up to 3 or possibly 4 pairs of skis can be carried safely and neatly in the ski bag. The bag itself is 4 ft. (1.20 m) long. Using the space available inside the car's trunk, skis measuring up to 7 ft. (2.10 m) long can be carried. If several skis are inserted, the narrower front section of the ski bag reduces the available space, so that only 2 pairs of 7 ft. (2.10 m) skis can be carried together.



Loading the ski bag

Fold down the center armrest and detach the cover panel at the top; it has a VELCRO® fastener.

Press together the two locking levers and at the same time lift out the center armrest. This will expose the full opening for the ski bag.

To release the loading flap in the trunk, press the round knob. After this, detach the retaining loop at the upper hook and swing it down.

Lay out the ski bag between the front seats.

Working from the trunk, secure the loading flap to the underside of the rear window shelf with the magnetic retainer.



32 88 01 101

Make sure that the skis are clean before they are placed in the ski bag, and prevent sharp edges from damaging the bag.

If the ski bag is not used for a lengthy period, store it in a dry condition.

It is advisable to remove water caused by moisture or melted ice from the ski bag at intervals after use, since the bag is waterproof and the water cannot otherwise escape.

Radio * operation

If your BMW is equipped with a radio, you will receive an owner's instruction manual with the car's documents; this contains full details of **how to operate your car radio**.

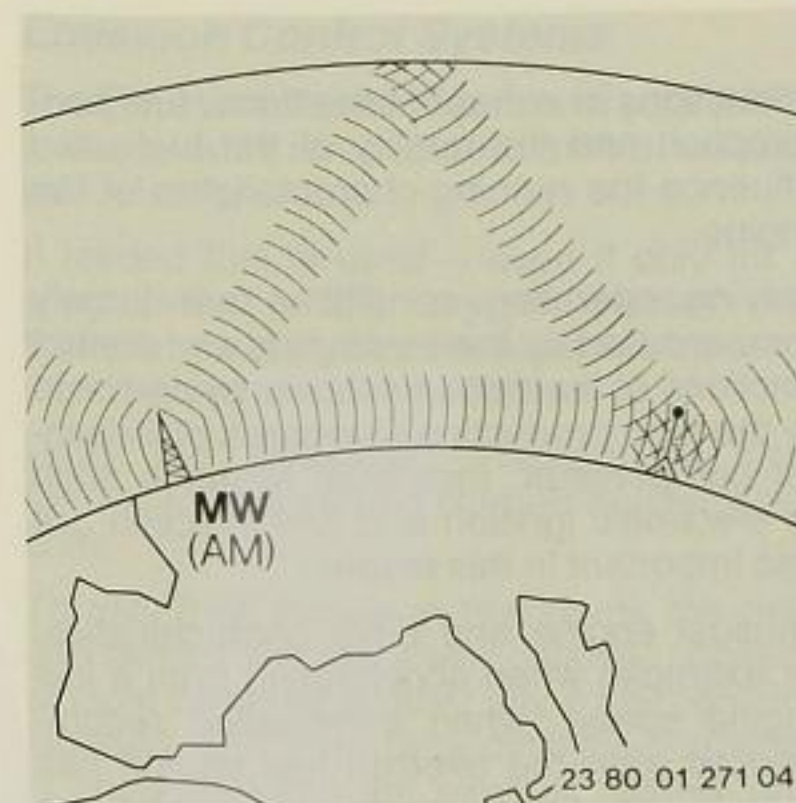
The front-to-rear fader control distributes the sound between the front and rear speakers.

The strength of the signal received by your car radio antenna, and thus the quality of the sound from the loudspeakers depend on the position of the receiver and the height and direction of the antenna. These factors are relatively easy to take into account on a home radio receiver, but for a mobile radio certain concessions have to be made. The position of the receiver is constantly changing and it is impossible to keep the antenna aligned with the direction of signal transmission.

Climatic effects:

Fog, rain or snow can interfere with good radio reception.

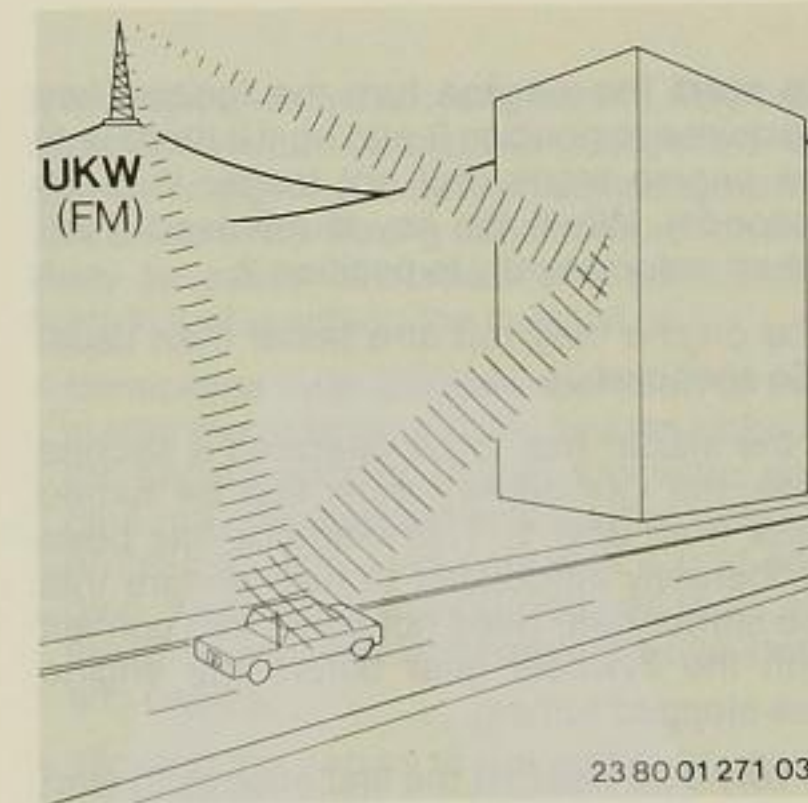
As the **strength of sunlight** increases, long, medium and short wave reception is adversely affected. These wavebands can be best heard after dark, when the ionosphere reflects more of the transmitted signal back to earth.



23 80 01 271 04

AM provides a larger or, in some cases, exceptionally wide reception range, since the signals are not only dispersed as **ground waves**, which cling to the curvature of the earth, but also as **space waves**, which are reflected off a layer in the ionosphere and bounce back to earth.

There are physical reasons why the quality of AM reception is not as good as on FM. However, long distance reception is good, particularly at night, so that a large number of stations can be received, though the station density is such that mutual interference often occurs.



23 80 01 271 03

The **FM** transmission system offers far better sound quality than AM. However, reception is limited to only a few stations at a time, since the radio waves are emitted in a **straight line** from the transmitter tower and thus cover an area not more than about 50 miles (80 km) in radius.

As the distance from the transmitter to the receiver increases, background noise becomes more of a problem, and finally the station can no longer be heard and is displaced by a more powerful one which the car is approaching. These too are natural factors which can only be avoided by retuning to a stronger signal.

Stereo, if transmitted in your area, can only be received on FM. As you move away from the transmitter, interference becomes noticeable more rapidly than on mono transmissions. In this case, switch to mono reception or tune to another station giving reliable stereo reception.

Fluttering noise is caused by signal fade, when the line-of-sight link between transmitter and receiver is blocked by large buildings or geographical features. A similar effect is sometimes heard when driving along a free-lined road.

Hissing, sizzling and splashing noises: disturbance in this category occurs when reflected signals are picked up by the car radio a fraction of a second after the main signal, for instance from large buildings nearby. The sound level also fluctuates repeatedly.

Continuous high level of background noise: this normally indicates that the edge of the transmitter's zone has been reached, or the car has been driven into a "shadow" where no direct signals are received. The only alternative is to retune to a more powerful station.

Severe fade: this is a phenomenon more often encountered on AM, and accompanied by distortion. It is caused by the superimposing of ground waves and airborne signals at the reception point.

Before and after starting

- Pull parking brake
- Always check first that the gear lever is in neutral before operating the starter. Automatic transmission cars can only be started with the selector lever at **P** or **N**.
- Turn off as many items of electrical equipment as possible to reduce the load on the battery
- At low outside temperature, on manual transmission cars, depress the clutch pedal.
- Start the engine.

Usually it is not necessary to depress the accelerator pedal. However, at high altitudes, very hot or very cold weather, depress the pedal halfway down when starting the engine.

To start the engine turn the ignition key clockwise to position **3** and hold it there until the engine starts (but not longer than 20 seconds). When the key is released it will return automatically to position **2**.

The engine may run at a faster than usual idle speed while warming up.

If the starter has to be operated a second time, the ignition key must first be turned back from **2** to **1**. This interlock has been deliberately introduced to help ensure that the starter gear does not come into contact with the flywheel gear before the engine has stopped turning.

In very cold weather the first attempt to start engine should not last too long (max. approx. 20 seconds) in order to limit battery discharge; if a second attempt is necessary, wait a short while (about 20 to 30 seconds), and then operate the starter again for a similar period.

The **fuel injection engine of your BMW** is equipped with automatic cold-starting and warming-up systems.

To stop the engine, turn the ignition key back to position **1**.

Reductions in exhaust emissions, fuel consumption and the quality of the fuel used influence the running characteristics of the engine.

Varying operating conditions are largely compensated by the measuring and control functions of the car's electronic system and by the high production standards of individual components. Individual systems such as electronic ignition and fuel injection are also important in this respect.

Unusual engine and drive characteristics, for example, when accelerating from a low engine speed, when combustion recommences after the overrun fuel shutoff has operated or at a low engine idle speed, are design features resulting from the compromise between demands for lower fuel consumption, ecologically more acceptable motoring and greater ride comfort, and not a sign that the vehicle needs attention.

BMW cannot be responsible for mechanical damage that could result of inadequate fuel, service or parts availability.

Emission Control Systems

The Emission Control System of your BMW is designed to remove pollutants of unleaded fuel only.

If leaded fuel is used – even if only for a short period – the **oxygen sensor** and **three way catalytic converter** will be damaged and rendered inoperative.

Have the scheduled maintenance performed to ensure undisturbed engine functions.

To fulfil EPA Emission Standards the oxygen sensor and three way catalytic converter must be replaced after using fuel containing lead. The three way catalytic converter is integrated into the exhaust system and installed below the vehicle's floor in the area of the front seats.

After 60,000 miles (or 97 000 km) the oxygen sensor must be replaced.

If unburned fuel reaches the three way catalytic converter excessive temperatures and damage may result. You should therefore avoid all operating conditions which are likely to cause unburned or insufficiently burned fuel reaching the catalyst, e. g.:

- unnecessarily prolonged operation of the starter motor or repeated cranking without the engine starting. (A fully functional engine may be stopped and started without problems). Tow start only with a cold engine, as otherwise unburned fuel reaches the three way catalytic converter-use starting cables.
- allowing the engine to run with spark plug wires disconnected.
- Never run out of fuel to avoid misfiring of engine.

If the ignition should misfire, please drive to the nearest BMW dealer, using low engine speeds only.

Warning:
Never leave engine idling unattended. An unattended vehicle with a running engine is potentially hazardous.

Do not park or operate the vehicle in area where the hot exhaust system may come in contact with dry grass, or other material which can cause a fire.

Evaporative Emission Control System

This is a purge system consisting of a liquid-vapor separator, charcoal canister and purge lines to prevent gasoline vapors from escaping to the atmosphere.

Break-in hints

The engine of your BMW has not been governed in any way, so that there is no restriction on its performance even when new. It is therefore up to you to ensure that the full operating life and potential economy are later achieved, and this is best done by adhering closely to the following break-in rules.

Caution: 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.

For the first 620 miles (approx. 1000 km), drive at varying road and engine speeds. Do not exceed 4,000 rpm.

Note: Do not exceed two-thirds of the vehicle's maximum speed in 5th gear.

Do not use full throttle or the kick-down position of the accelerator pedal at all during this period.

Remember that the break-in rules apply to other mechanical assemblies such as the transmission or rear axle, and not just to the engine.

Should any such assembly be replaced at a later stage in the car's life, the break-in procedure must be repeated.

During the break-in period, a degree of **stiffness** may be noticed at the gear shift, in the steering and other controls and mechanical assemblies. This will disappear after a short period of use and should be regarded as part of the normal break-in process.

After 620 miles (approx. 1000 km) have been covered, you can gradually increase your road speeds to the specified cruising and top speeds of your car, assuming that general road and traffic conditions make such speeds possible.

Hints on breaking-in brake pads:

As a means of achieving uniform wear patterns and a good friction coefficient on new pads, avoid repeated heavy brake applications, especially from high speeds, during the first 300 miles (approx. 500 km), and also prolonged severe loads such as may occur when descending long mountain passes. During the break-in period, refrain from subjecting the brakes to any form of endurance testing.

Brake pads and discs require the distance stated above and the quoted operating conditions in order to seat properly and give smooth results and maximum wear during the car's life.

Since the parking brake operates on an entirely separate brake system with its own drums, it must also be seated correctly.

You can perform the process of seating the parking brake linings yourself provided that due care is exercised, at threemonth intervals or whenever parking brake action becomes less effective.

If road surface, weather and traffic conditions permit, it is possible to achieve the desired effect by applying the parking brake lightly at about 25 mph (40 km/h), until definite resistance is felt. The lever should then be pulled up to the next notch and the car driven for about another 1,300 ft (400 m) before the parking brake is completely released.

Warning:
The brake booster on your BMW is charged up only when the engine is running. When the car is moved with the engine stopped, for instance when being towed, a much higher pedal pressure than usual will be needed to produce the anticipated braking effect.

Break-in procedure for tires:

The production methods used in the tire industry result in brand-new tires having less than their designed adhesion at the road surface. Until full grip is available, and as a means of obtaining a good wear pattern we recommend you drive with restraint for the first 200 miles (approx. 300 km).

Note: Obey your local and state maximum speed limits.

Warning:
When driving on wet or slushy roads, a wedge of water may build up between the tires and the road. This phenomenon is known as aquaplaning and may cause partial or complete loss of traction, vehicle control or stopping ability. Reduce speed on wet roads.

Required fuel quality:

Your BMW is designed to operate with **unleaded premium fuel with an Anti-Knock Index of 90 AKI**. This designation is comparable to Research Octane Number 95 RON (resp. 87 AKI or 91 RON on the BMW 750iL).

Warning:
Never carry additional fuel containers in your vehicle. Such containers, full or empty, may leak, cause an explosion, or result in fire in case of a collision.

Only use fuels advertised to have adequate detergency and low alcohol content. Use of fuels with insufficient detergent and/or excess alcohol can cause driveability problems that necessitate cleaning intake valves and fuel injectors.

Traveling in foreign countries

Prior to using your BMW in a foreign country, check to ascertain if fuel of the required octane level is available to avoid engine damage.

Should unleaded fuel not be available in the foreign country in which you are traveling or intend to travel be aware that the use of leaded gasoline will render the oxygen sensor and three way catalytic converter of your BMW inoperative. As a result, the vehicle will not meet the emission requirements of the US and Canada and maximum fuel economy will not be obtained. It will, therefore, be necessary upon your return to the US or Canada for the fuel system to be purged of the leaded fuel and both the oxygen sensor and three way catalytic convert-

er to be replaced in order for the vehicle to be legally operated in the US and Canada.

Your car's **fuel economy** is mainly dependent on your style of driving. Highspeed driving, acceleration to the limit in all gears, violent cornering and sudden braking all take their toll, not only in terms of heavy fuel and oil consumption, but also faster wear of brakes, tires and all the engine parts.

After driving for a while in dense city traffic or bumper to bumper, we recommend letting your engine "**take a deep breath**" by covering the next mile or two at engine speeds of 3,000 rpm. This will help eliminate any carbon build-up in the cylinders.

It is not recommended to allow the engine to warm up at idling speed. Drive away at moderate engine speeds immediately after starting. However, if the outside temperature is exceptionally low the engine should be allowed to run at increased idle speed for about half a minute, to ensure proper circulation of the engine oil. Never run a cold engine at high speeds or its useful working life will be seriously reduced.

When **declutching**, always push the clutch pedal down fully; never drive with the foot resting on the pedal.

The **brake booster servo** on your BMW is charged up only when the engine is running. When the car is moved with the engine stopped, for instance when being towed, a much higher pedal pressure than usual will be needed to produce the anticipated braking effect.

Caution: Do not drive with your foot resting on the brake pedal. "Riding" the brakes may result in abnormally high temperatures, lining wear and possible brake failure.

The economy of your BMW depends to a large extent on your driving style. Driving economically means watching the traffic well ahead and adapting to the conditions. Driving economically does not necessarily mean driving slowly.

Warning:

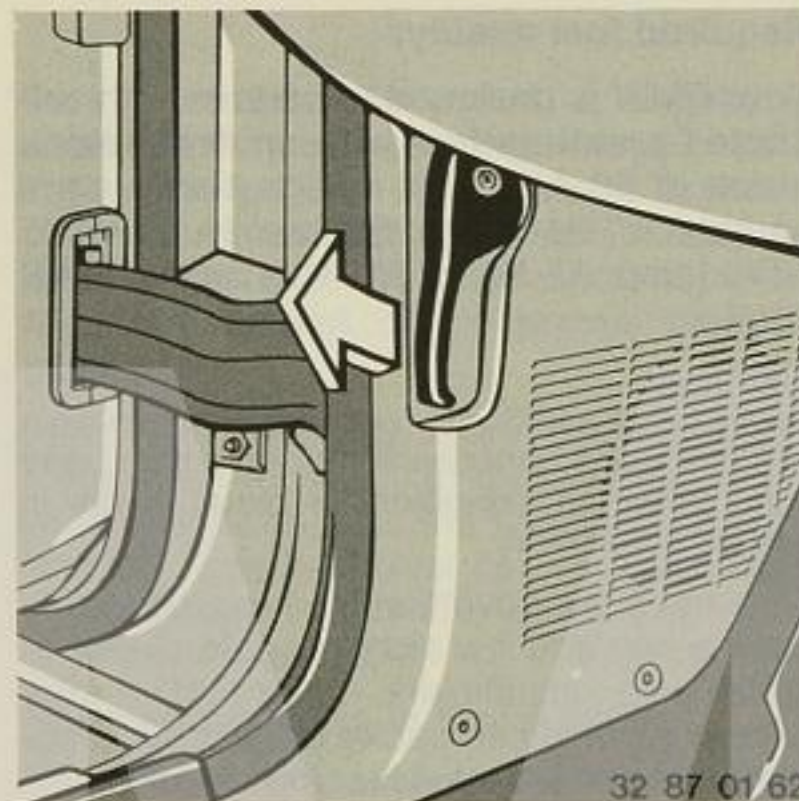
Always keep the trunk lid closed when on the move. This will prevent toxic exhaust gas from being drawn back into the car's interior. If you are carrying bulky items and cannot close the lid, it is a good precaution to close all the windows including the sliding roof if equipped and run the fresh air or heater blower at medium to high speed.

Do not put packages on the flat area behind the rear seat, as they may obscure vision and may become dangerous projectiles in the event of a sudden stop.

Hang clothes in such a way that they do not impair the driver's vision.

Do not hang heavy objects on the coat hooks. They could cause personal injury in the event of a sudden stop.

Drinking and driving is dangerous. Even a small amount of alcohol or drugs can affect your reflexes, perceptions and judgement. The possibility of a serious or even fatal accident is increased when you drink and drive.



Hood

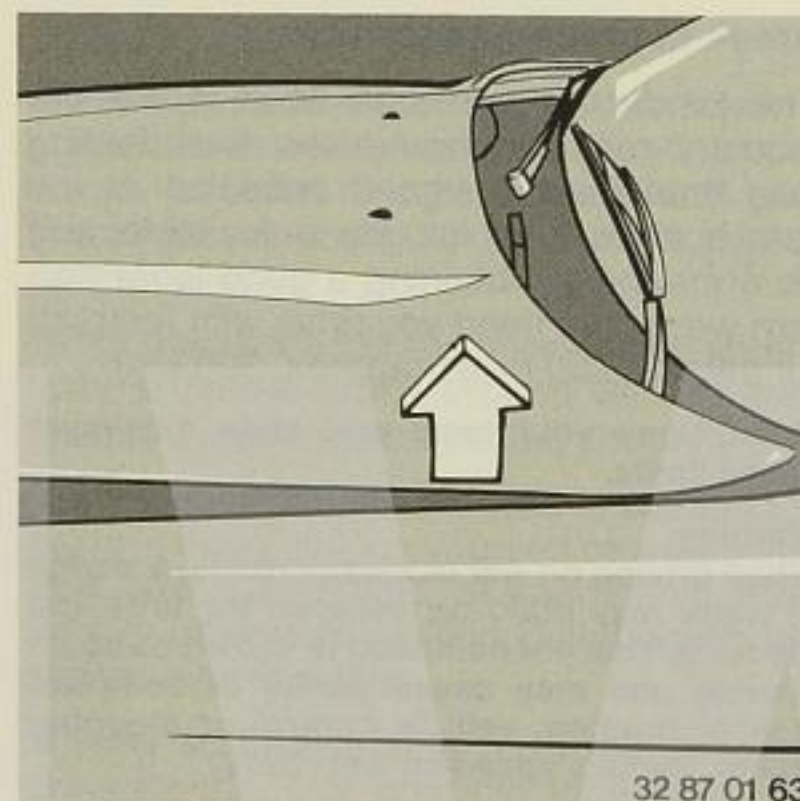
The hood is opened from inside the car by pulling the lever on the left side panel of the footwell.

Warning:

Should you notice at any time while driving that the hood is not secured properly, please stop at once and close it. Before you check anything in the engine compartment, stop the engine and let it cool down. Hot components can burn skin on contact. Never touch the radiator fan blades.

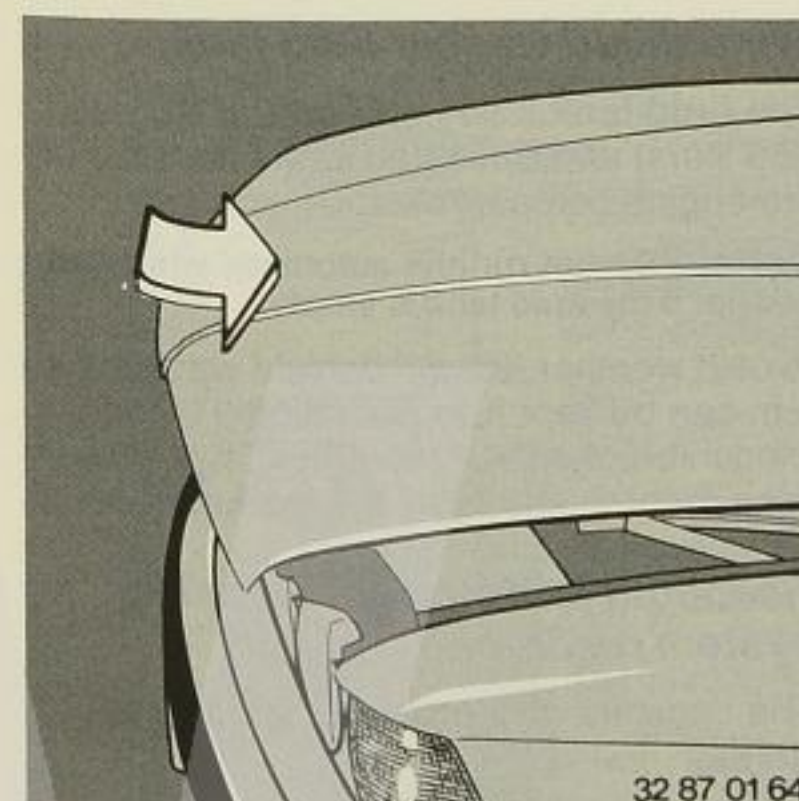
When there is danger of coming in contact with electrical cables, when doing repair and maintenance work, especially in the engine compartment, always disconnect the battery.

Several parts of the car's equipment are made of asbestos. Asbestos fibers may be present in the form of dust and could cause cancer and lung disease. Please note warnings marked on the spare parts.



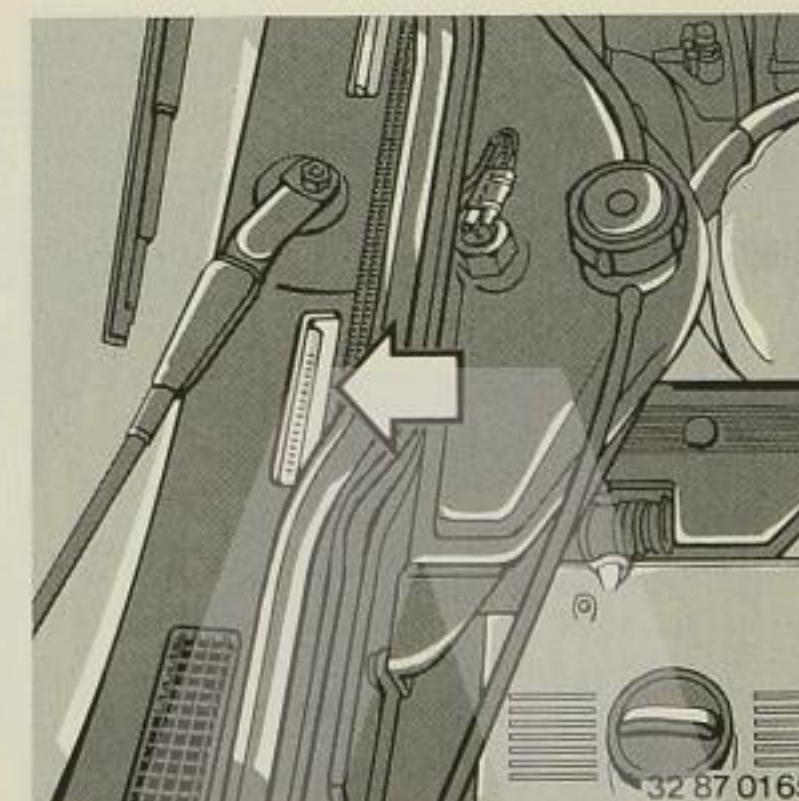
Improper handling of parts installed and materials used in the vehicle can endanger your personal safety. Always pay attention to manuals and instructions. If you are not familiar with the pertinent safety rules, ask your BMW dealer to perform the necessary work. Any contact with ignition components when the engine is running is highly dangerous.

A built-in mechanism makes it easy to open and raise the hood from the outside after release.



The engine compartment light goes on when the hood is open and the parking light is switched on.

To close the hood, move it down and press slightly to the rear at the middle of the hood front section.



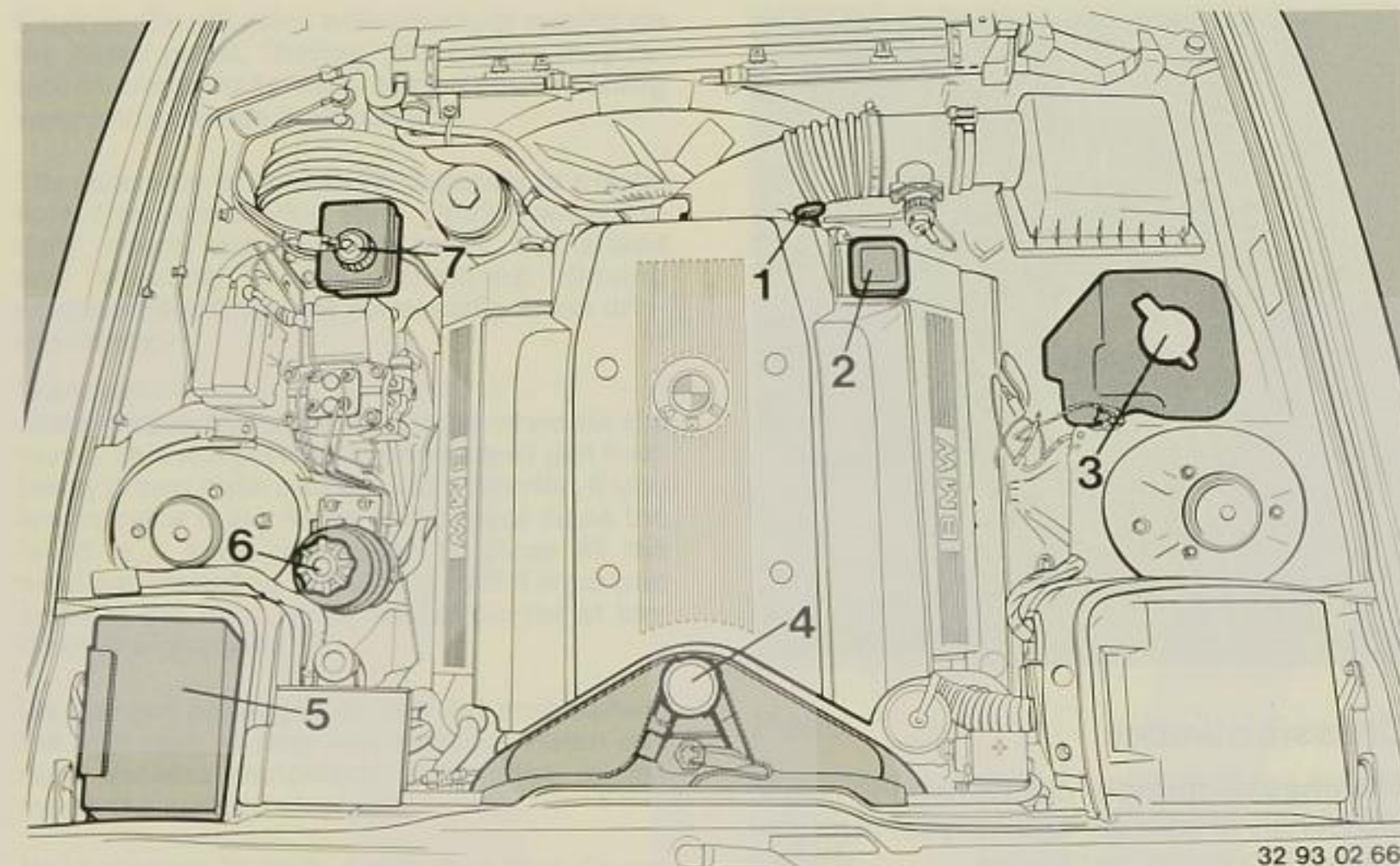
Chassis number

The chassis number can be used to check the identity of your car against your registration and licensing certificates.

The chassis number is in the engine compartment beside the right wiper arm (arrow) and on a label located inside the left front door opening.

The number is also stamped on a metal strip that is fastened to the dash adjacent to the middle of the windshield.

In an effort to deter theft the number is also stamped on body components, engine and transmission.



BMW 740i, 740iL engine compartment

- | | |
|--|--|
| 1 – Dipstick for engine oil | 5 – Fuse box |
| 2 – Engine oil filler | 6 – Fluid tank for power steering and self leveling suspension |
| 3 – Fluid tank for windshield, head- and foglight washer | 7 – Fluid tank for brake hydraulic systems |
| 4 – Coolant tank | |

Windshield washer fluid tank

The **fluid tank** holds approx. 2.6 US quarts (2.5 liters) and is located at the front right of the engine compartment.

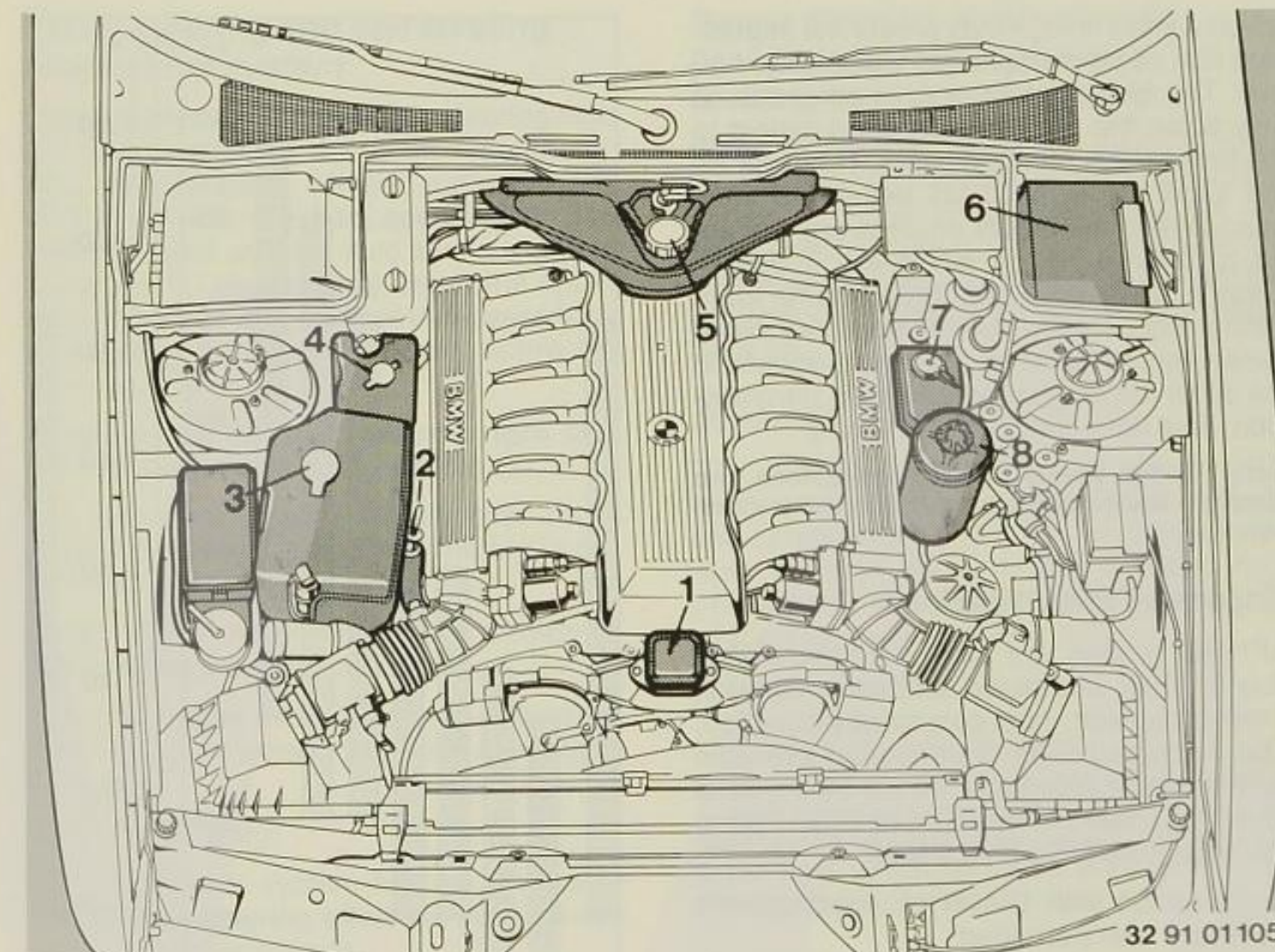
Caution: Do not run the automatic windshield washer if the fluid tank is empty.

In cold weather, the windshield washer system can be kept fully operational by adding windshield washer solvent in the proportions recommended by the manufacturer.

Headlight and foglight cleaning system reservoirs

The capacity is approx. 7.9 US quarts (7.5 liters).

Filling as windshield cleaning system.



BMW 750iL engine compartment

- | | |
|---|---|
| 1 – Engine oil filler | 5 – Coolant tank |
| 2 – Dipstick for engine oil | 6 – Fuse box |
| 3 – Fluid tank for windshield, head and foglight washer | 7 – Fluid tank for brake system |
| 4 – Fluid tank for intensive cleaner (only to be filled if the special equipment is fully fitted) | 8 – Fluid tank for hydraulic brake booster, power steering and self leveling suspension |

Windshield washer, headlight and foglight cleaning system reservoirs

Capacity approx. 9.5 US quarts (9.0 liters).

Washer jets for headlight respectively foglight cleaning system:

Have it adjusted by a BMW dealer, if necessary.

Windshield washer jets:

If the stream of water fails to strike the center of the area covered by the wiper on that side, the jet can be carefully repositioned with a fine needle to redirect the water stream.

Engine oil consumption

Engine oil consumption, like fuel consumption, depends on the way in which the car is driven and the operating conditions.

Engine oil level check

We recommend that you check engine oil level regularly, for instance whenever you buy fuel. If necessary, add fresh oil to the filler on the engine's rocker cover. Do not fill beyond the upper mark on the dipstick.

The most accurate oil level reading will be obtained with the car standing on a level surface and the oil cold (before the engine is started), or if the engine has already been run, allow the oil to drain back into the oil pan for a short period.

Make sure that the dipstick is inserted fully into the tube on the engine block.

Caution: For disposal of used engine oil obey local regulations or environmental rules. We suggest you have the oil changed at your BMW dealer.

Continuous contact with used engine oil has caused cancer in laboratory tests. Wash skin thoroughly with soap and water after handling. Always keep oils, greases etc. out of reach of children! Please note precautions on containers.

Adding fresh engine oil

The quantity of oil represented by the space between the two marks on the dipstick is approx. 1.1 US quarts (1 liter).

Adding too much oil serves no useful purpose and may even harm the engine. Since this excess oil will tend to be burned off

within a short time, it may create the impression that oil consumption is higher than normal. The best procedure is to add fresh oil only when the level has dropped almost to the lower mark on the dipstick. However do not allow the level to fall below the minimum-level mark. BMW engines are designed to require no **oil additives** if one of today's highly advanced brand-name lubricating oils is used. Using additives could cause engine damage. The same applies to the oil for the manual or automatic transmission, final drive and power steering.

Note: Under severe driving conditions, we strongly advise increasing the number of oil services.

Engine oil specifications

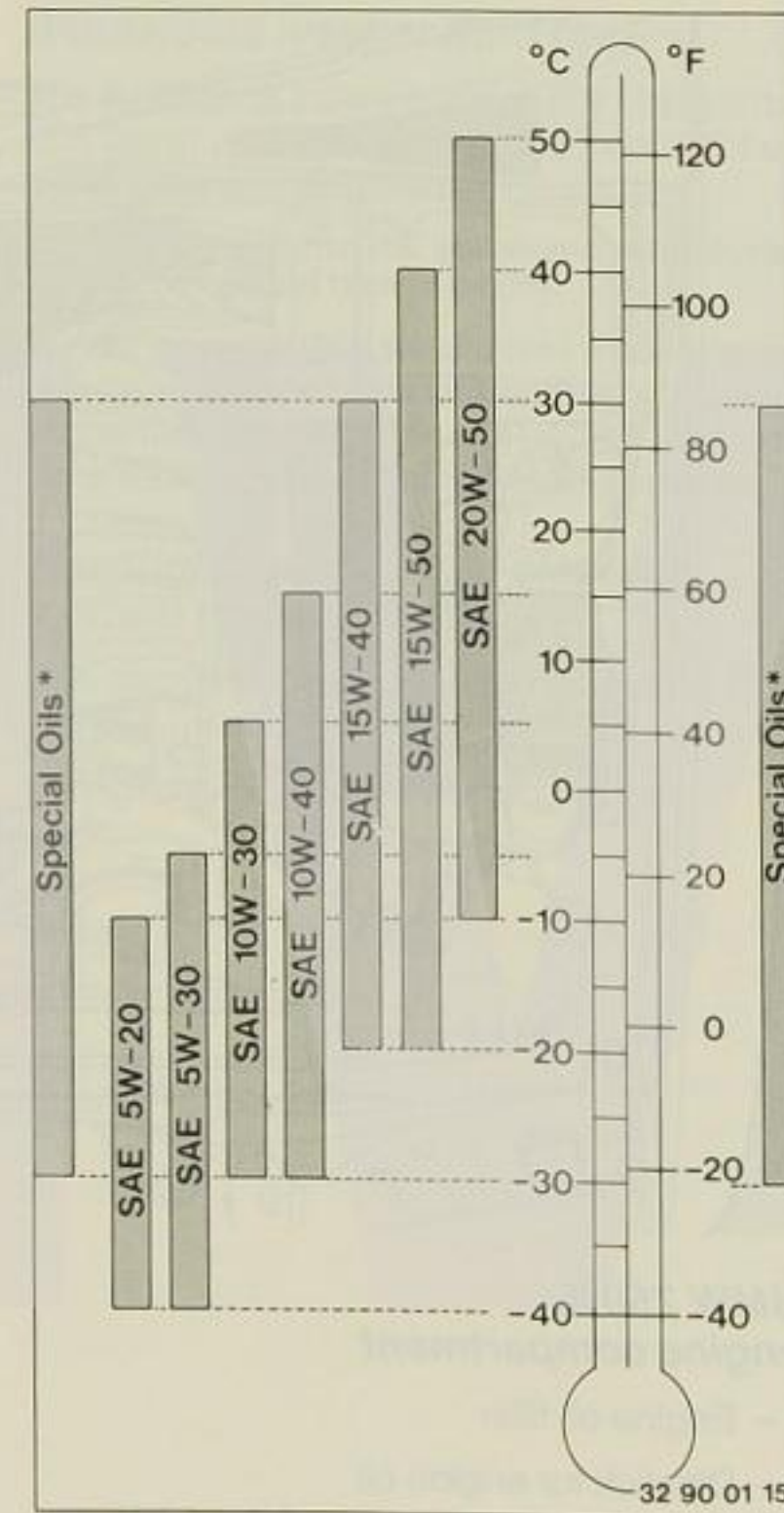
API SG grades are highly recommended due to their increased oxidation stability, wear protection, and detergent properties. The increased level of protection available by the use of SG grade oil will help you to attain the maximum amount of engine service engineered into your BMW.

Combination with Diesel oil specifications CDIE are also permitted.

The chart indicates the SAE grades to be used depending on the predominant air temperature.

The temperature set by the SAE grades may remain under or exceed the limit for a short period.

Heavy duty engine oil may be used in the manual transmission if the car is driven in extremely cold climates. Contact your BMW dealer for details.



* Special engine oils individually approved by BMW (low friction lubricants). Contact your BMW dealer for details.

Power steering and self leveling suspension system

Check fluid level in the power steering with the engine stopped or, in an emergency, with an unloaded vehicle, unscrew the cover and refill the fluid specified on the reservoir label until the fluid level ceases to rise approx. 1 in. (25 mm) below the upper rim of the reservoir. Correct if necessary by adding fluid of the correct grade. Screw the cover back on.

Steering stiff to turn towards right and left lock; whining noise audible:

Too little oil in system. Check level and if necessary inspect the power steering circuit for leaks or damage.

Loose V-belt: Adjust to correct tension. If belt is damaged, replace it.

A slightly higher effort is needed to turn the steering wheel when the power steering is defective.

Servotronic only:

If the electronic system fails, a noticeable decrease in steering effort will become apparent at higher speeds.

Power steering and hydraulic brake booster inclusive self leveling suspension system

When "POW STEER FLUID" appears in the Check Control display consult an BMW dealer or, in an emergency, stop the engine, unscrew the cover and refill with the fluid specified on the reservoir label until the inscription disappears. Screw the cover back on.

Brake fluid level check

The fluid is hygroscopic by nature, that means it will tend to absorb moisture from the atmosphere over time. In order to ensure that the brake system remains fully operational, **the brake fluid must be replaced every two years.**

Top up to the "MAX" mark.

Use only DOT 4 brake fluid.

Caution: Brake fluid is poisonous. Brake fluid is also harmful to the paint of your vehicle. An overheated engine may cause fluids (e.g. brake fluid, gasoline) which have leaked into the engine compartment to ignite!

Coolant level check

The transparent coolant tank permits coolant level to be checked without removing the cap.

Warning:

Open the radiator cap only when the engine has cooled down and the coolant needle is on the lower third of the scale, or else hot water or steam may escape and scald you.

Leaked antifreeze may ignite on overheated engines.

Turn the cap slightly counterclockwise to allow excess pressure to escape, then remove completely.

Overfilling will dilute the additives in the coolant, which will escape through the overflow pipe and no longer possess the correct antifreeze and corrosion inhibitor concentration.

Never add water if the cooling system is still hot and coolant has been lost: allow the engine to cool down.

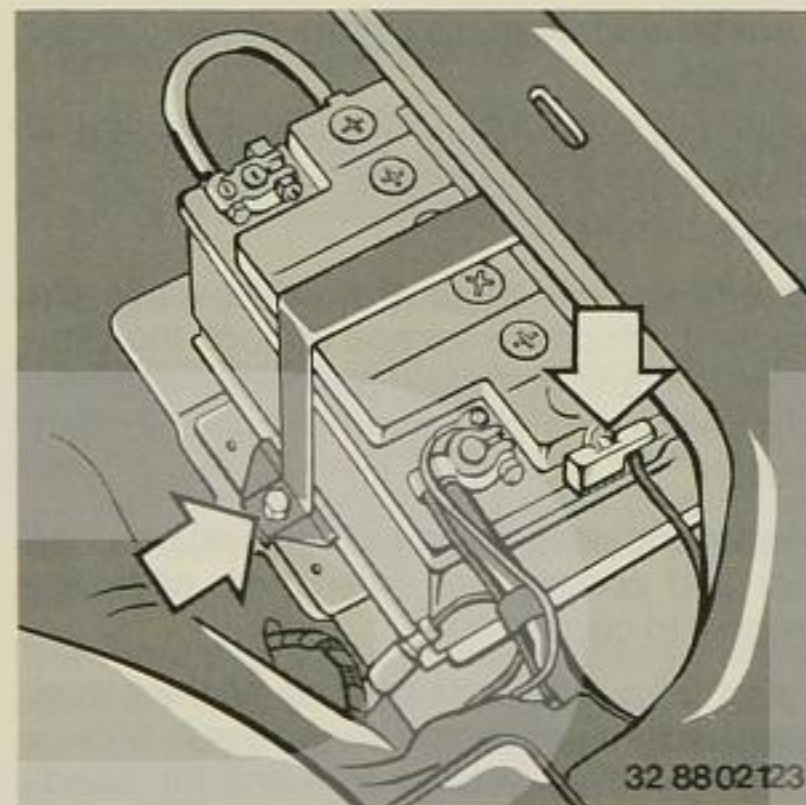
Apart from regular checks on coolant level, antifreeze concentration (at least 50% = -35°F = -37°C year round) and the condition of hoses and hose clamps, we recommend that the cooling system be drained and refilled every two years. At the same time, check that the filler cap seals properly and that the pressure relief and vacuum equalizing valves are in good working condition.

The fluid of the cooling system needs no further additives. Use only factory approved fluid nitrite and amino free to prevent damage.

Increasing the antifreeze in the coolant is not only uneconomical, it is also detrimental to engine cooling.

Antifreeze other than specified by BMW for aluminium radiators may cause corrosion of the cooling system, leading to engine overheating and damage.

Caution: Antifreeze is poisonous! Store in original fluid container only and always keep out of reach of children.



Battery

The location of the battery is under the rear seat cushion. A positive terminal for jump starting is in the engine compartment, see page 68.

Your BMW's battery is maintenance free. The electrolyte added initially should normally last for the life of the battery. **If the level is too low in any of the cells, for instance after spending long periods in a hot climate, top up with distilled water (do not use acid).**

The level should be about 0.2 in. (5 mm) above the upper edges of the plates or at the mark visible in the filler opening, depending on battery type.

Keep the upper part of the battery clean and dry.

Note: If you are not familiar to carry out the necessary work, contact your BMW dealer.



Before working on batteries read this important notes:



Shield your eyes. Acid or lead oxide from the battery terminals must never be allowed to contact the eyes, skin or clothing.



Acid can cause severe burns, wear gloves. Do not tip, keep the vent caps tight and level.



Keep children out of the reach of acid and batteries.



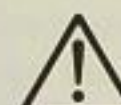
Never bring an open flame near the battery or cause any sparks in the vicinity. This could lead to an explosion. Never short-circuit the battery posts; this will cause severe overheating and could lead to the battery case bursting.



Batteries produce explosive gas, especially when recharging.



Flush eyes immediately with clean water. Rinse the place that had contact with acid and consult a physician, if necessary.



Protect the battery case against ultraviolet rays from the sunlight.

Never detach the battery leads when the engine is running; otherwise an overvoltage will occur and damage the car's electronic equipment beyond repair.

First disconnect the negative leads, then the positive leads and remove the vent system. Unscrew the battery.

When installing, tighten the original BMW battery and connect first the positive lead, then the negative lead. Check tightness of plugs and the venting system.

Avoid crimping or blocking the vent tube when reinstalling.

Caution: Make sure that the seat cushion is securely tightened, so that it cannot come loose in case of a sudden stop.

To recharge the battery without removing it from the car, the engine must be stopped. Connect the positive (+) cable of the charging appliance to the remote positive (+) post in the engine compartment.

Never charge a frozen battery. It may explode because of gas trapped in the ice. Allow a frozen battery to thaw out first.

Disconnect the negative lead from the battery before attempting any work on the car's electrical system, to avoid the risk of a short-circuit.

To loosen the negative lead from the battery without lifting the rear seat cushion detach the negative cable on the right seat support:

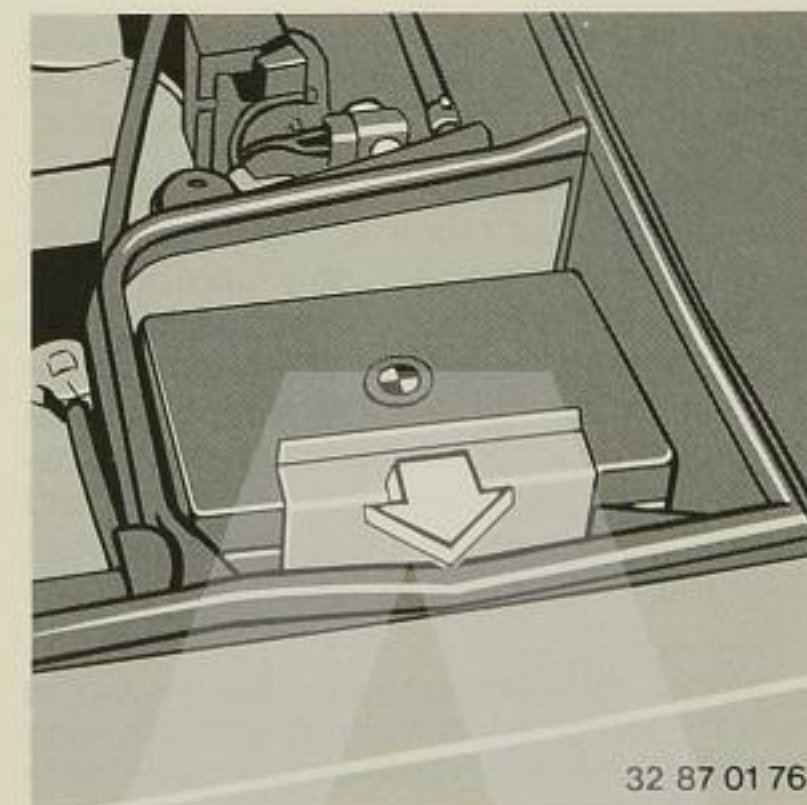
- remove cover
- unscrew the bracket
- demount the nut and remove the negative cable.

If the vehicle is to be laid up and out of use for a period of four weeks and longer disconnect the battery by taking off the negative lead or consider using a proper trickle charger, following the charger manufacturer instructions, to maintain the battery's state of charge or consult your BMW dealer regarding battery removal.

For periods longer than six weeks remove the battery, have it charged and stored in a cool place with no risk of freezing. The battery must be recharged after not more than 3 months or it will discharge completely and cannot be reused on the vehicle.



Avoid environmental pollution when disposing of old batteries. Please consult your BMW dealer for further guidance and information.



Fuses

If any electrical equipment on your car should fail, first check the fuses.

The fuse box with spare fuses, fuse removal tool and relays is located on the left wheel arch inside the engine compartment.

To open the fuse box: push the clamp aside and remove the lid.

A blown fuse can be identified by the melted metal strip inside the fuse holders. Pull the blown fuse out with the fuse removal tool trace and rectify the cause of the failure, then insert a new fuse of the correct rating.

In case of recurrence of a blown fuse contact your BMW dealer to perform the necessary work.

To close the fuse box: Press the lid down and press on the clamp.

In addition an other fuse box is located under the rear seat cushion.

Placards, located on the inside of the fuse box lid will help you to find the appropriate fuse and the correct ampere rating.

Caution: Never replace blown fuses with wire or attempt to repair them in any way (fire hazard).



Jump starting

If the battery is run down, the engine can still be started by running jumper cables to the battery from a second vehicle.

1. Check that the other vehicle has a 12-volt electrical system and a battery of approximately the same capacity in Ah.

Warning:

The use of booster batteries with more than 12 Volts may cause immediate and irreparable damage to the electronic components of your vehicle. The capacity (Ah) of the booster battery should not be lower than that of the discharged battery. Use of batteries of different voltage or substantially different Ah rating may cause an explosion and personal injury.

2. The dead battery has to remain connected.

3. Do not allow the two vehicles to touch another, or a short circuit may be the result.
4. First connect the positive terminals of the car's batteries together. The positive terminal of the jumper cable can be connected in the engine compartment on the left side of the heater bulkhead. To remove the cover, pull the latches (arrows 1). Then connect the second jumper cable to the negative post of the second car's battery and to the negative terminal on the wheel housing (arrow 2).

Warning:

If connections deviate from that described in the foregoing, damage to both charging systems or even serious personal injury could result.

5. Run the other car's engine at a steady 2,000 rpm and then start your engine in the usual manner.

Before disconnecting the jumper cables make certain that the engine is at idle speed, switch on headlight, blower and rear window defogger to avoid damage to the car's electrical system. Carefully disconnect the jumper cables, starting with the negative terminal.

Warning:

The ignition system is a high-performance system and any contact with live components when the engine is running could lead to a fatal electric shock.

When attempting any repair or checking procedure make sure that there is no loose or hanging clothing and avoid contacting the electrical system or rotating fans and belts.

BMW 740i, 740iL, 750 iL: To prevent damage to the mass air flow sensor of the digital engine electronic avoid using start sprays to start the engine.

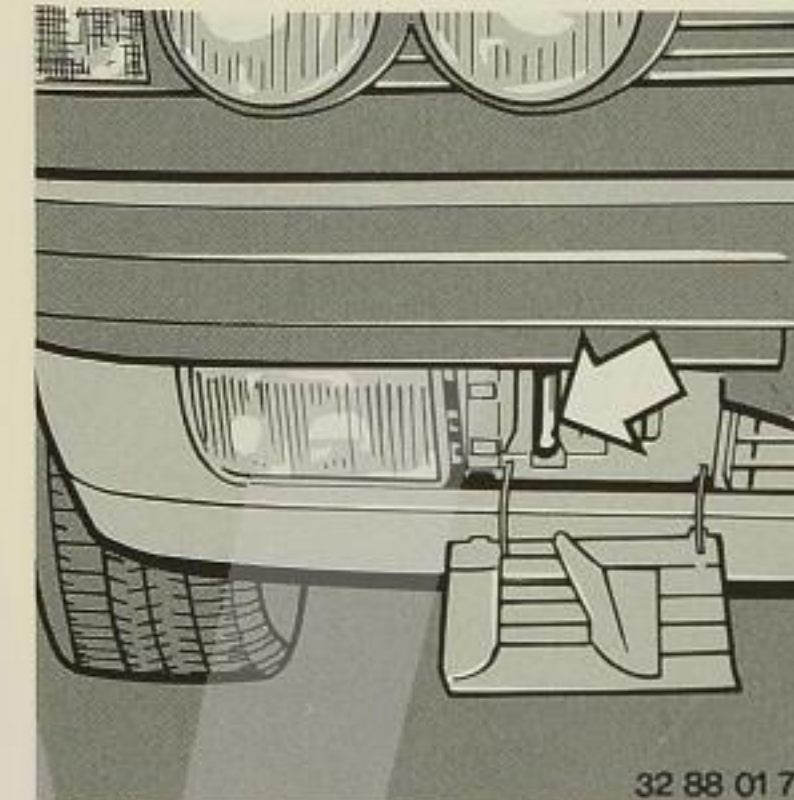
Tool kit

The tool kit is in a rack under the trunk lid which swings down when the retaining screw is loosened.

Warning:

When there is the danger of coming in contact with cables, when doing repair and maintenance work, especially in the engine compartment, always disconnect the battery.

Improper handling of parts installed and materials used in the vehicle can endanger your personal safety. If you are not familiar with the pertinent safety rules, ask your BMW dealer to perform the necessary work.

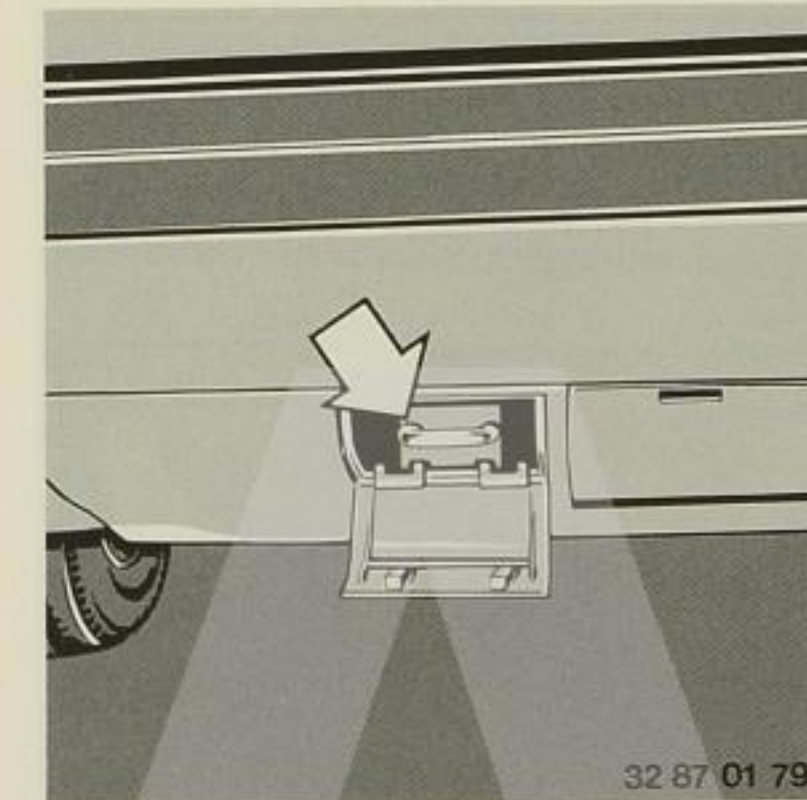


32 88 01 78

Freeing vehicle from mud, sand or snow

If your vehicle gets stuck, towing eyes are provided on the front and rear of the car as shown.

Use only nylon tow ropes or straps which are sufficiently resilient to protect both vehicles against sudden jerking. DO NOT tow a car to start it. When the engine starts the forward surge could cause a collision. Also, under some conditions, the three way catalytic converter could be damaged. Do not attempt to push another vehicle with yours or allow yours to be pushed by another vehicle. Damage to the energy absorbing bumpers may occur.

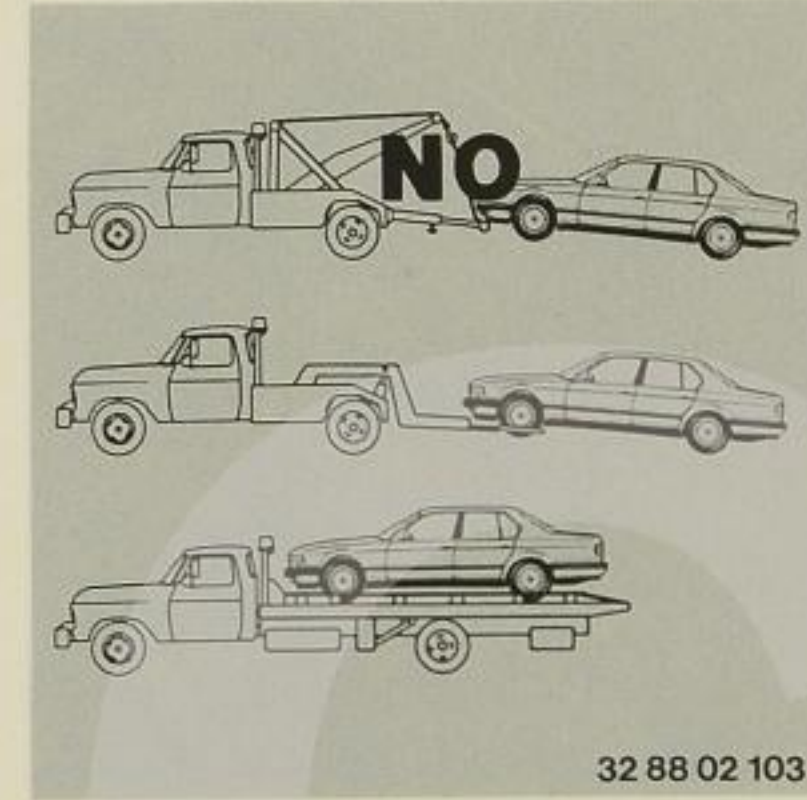


32 87 01 79

Towing vehicle equipped with automatic transmission

If the vehicle has to be towed with the rear wheels on the ground, towing speed should not exceed max. 30 mph/50 km/h on 750iL resp. 43 mph/70 km/h on 740i, 740iL.

The towing distance should be limited to max. 30 miles/50 km on 750iL resp. 93 miles/150 km on 740i, 740iL.



32 88 02 103

Towing with a commercial tow truck

Do not tow with sling-type equipment.

Use wheel lift or flat bed equipment.

Please comply with applicable state towing laws.

Warning:

Never allow passengers to ride in a towed vehicle for any reason.



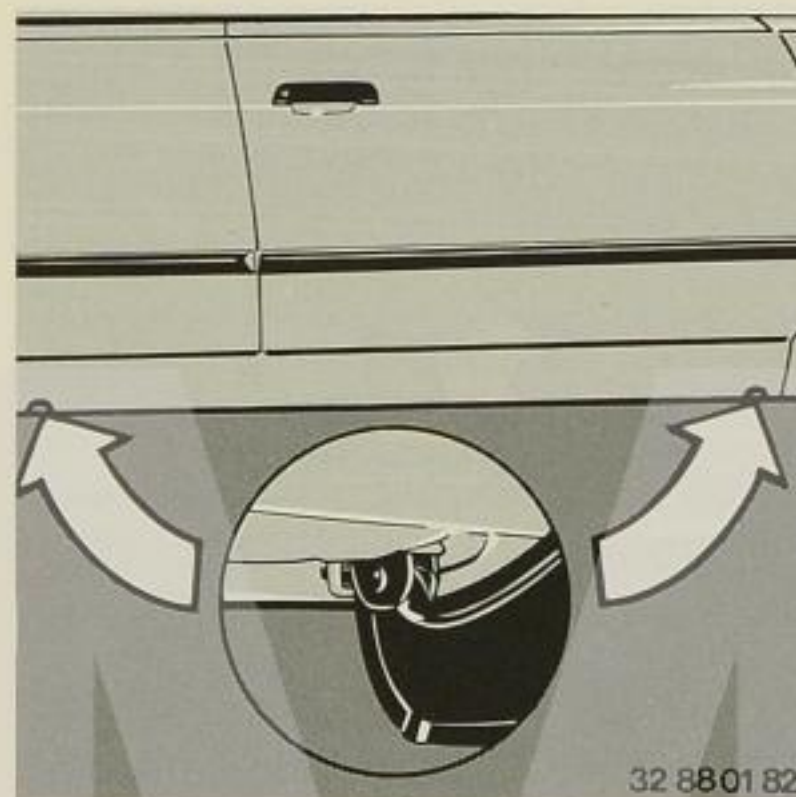
Wheel changing

Flat tires are fortunately a rare event nowadays. Should you have the misfortune to suffer a puncture, drive the car away from the main traffic stream and apply the parking brake. Comply with local regulations concerning the hazard of immobile vehicles by switching on the hazard warning flashers and setting up a warning triangle, flashing signal lamp etc. at a sufficient distance away from the car.

The **spare** tire is located under the carpet in a recess of the trunk floor.

Jack and wheel bolt wrench

The **jack** and **wheel bolt wrench** are housed in a compartment behind the rear wall trim of the trunk. The jack can be lifted



out after removing the wing nut. To prevent noise when the jack is stored in the trunk again, it must be retracted fully and secured with the wing nut in its original position.

Apply the parking brake and select 1st gear or reverse gear respectively selector lever position P on automatic transmission cars.

Caution: Place the wheel chock on the opposite rear wheel to prevent the car from moving when it is raised on the jack (this is necessary on account of the parking brake design). Set the parking brake. Pull off the hub cap. Loosen the wheel bolts (approx. one turn) before lifting the car.

Attach the jack to one of the **four pickup points** provided on the body (the one nearest the punctured tire) and jack up the car until the wheel is well clear of the ground.



Disc-type light alloy wheel:

Remove the wheel bolt cover by means of the screwdriver.

Pressed-steel wheel:

Take off the full width hub cap by hand.



Cast light alloy wheel 195 TR 415*, Light alloy wheel in cross-spoke style:

Unscrew the wheel bolt cover (which has the shape of a large hexagon nut) with the help of the wheel bolt wrench and the hexagon cap (situated in the trunk) by turning it counterclockwise.

Warning:

Never work underneath a jacked-up vehicle. Use the jack only for changing a wheel. Never use the jack to lift other vehicles or other loads as this may lead to accidents and personal injury.

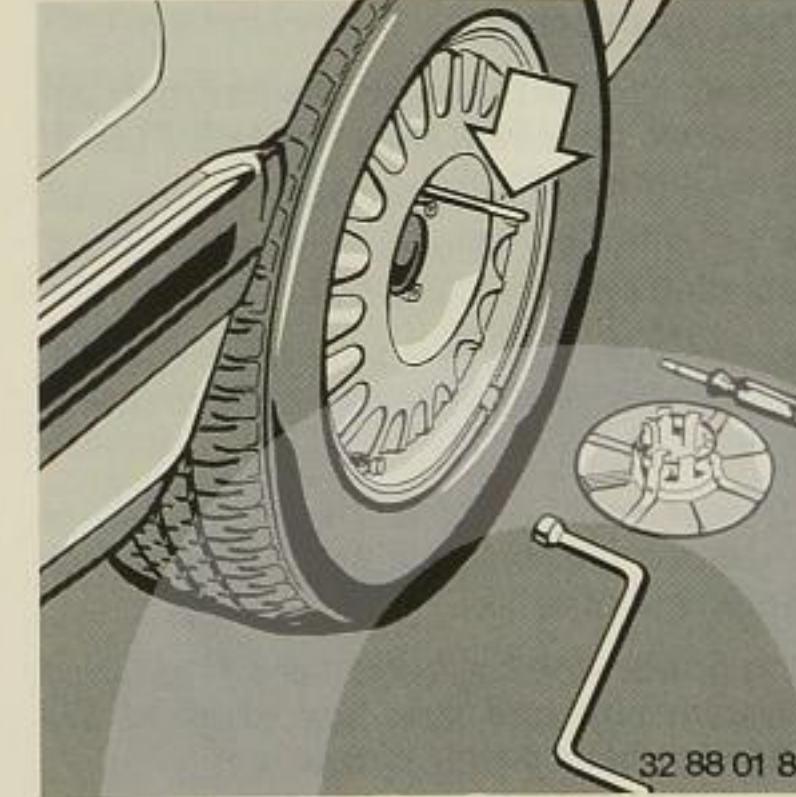


Unscrew the wheel bolts and change the wheels. To fit the spare wheel, insert the centering pin (found in the tool kit) into one of the holes, put the wheel on to the pin, screw in one wheel stud, then remove the centering pin. Screw in the remaining wheel studs and tighten them uniformly.

Lower the car with the jack, tighten the wheel bolts finally in a crosswise pattern (first one bolt then the other on the opposite side of the hub) and have the tightening **torques** checked at the earliest opportunity. 81 lb-ft (110 Nm) with a calibrated torque wrench.

If a new tire (or the spare tire) is installed for the first time, have tightening torques of bolts checked after approx. 600 miles (1000 km).

Have the flat tire repaired and rebalanced as soon as possible.



Tire repairs should always be entrusted to a BMW dealer or a specialist tire dealer capable of examining the tire to determine the full extent of possible concealed damage.

Warning:

When removing or replacing tubeless tires, the rubber valve must also be replaced as a safety precaution.

Braking system

Warning light for brake and steering hydraulics comes on – indication "BRAKE FLUID" in the Check Control:

- loss of brake fluid is indicated by increased brake pedal travel.

Warning light flashes – indication "BRAKE PRESSURE" in the Check Control (BMW 750 iL only):

- greater pedal effort is required if loss of reservoir pressure put the brake booster servo out of action,
- the power steering becomes stiff to turn if system pressure loss has deprived the steering of its power assistance,
- increased pedal effort and stiff power steering indicate that the hydraulic pump is out of action, possibly as a result of a broken V-belt.

Failure of one brake circuit

Pedal travel will increase and greater pedal effort will be needed.

The car can still be braked satisfactorily with only one circuit in operation. As with all brake system faults, the car should be taken to an authorized BMW dealer for immediate repair.

Indication "BRAKE LININGS" in the Check Control:

Brake linings have worn down to a minimum. Have the linings (pads) be inspected as soon as possible.

Power steering

If the steering becomes stiff, check the fluid level (see page 65).

If the steering is stiff only when the wheel is turned quickly, the V-belt is loose. Have it retensioned or replaced.

If these measures prove ineffective, consult a BMW dealer.

Servotronic only:

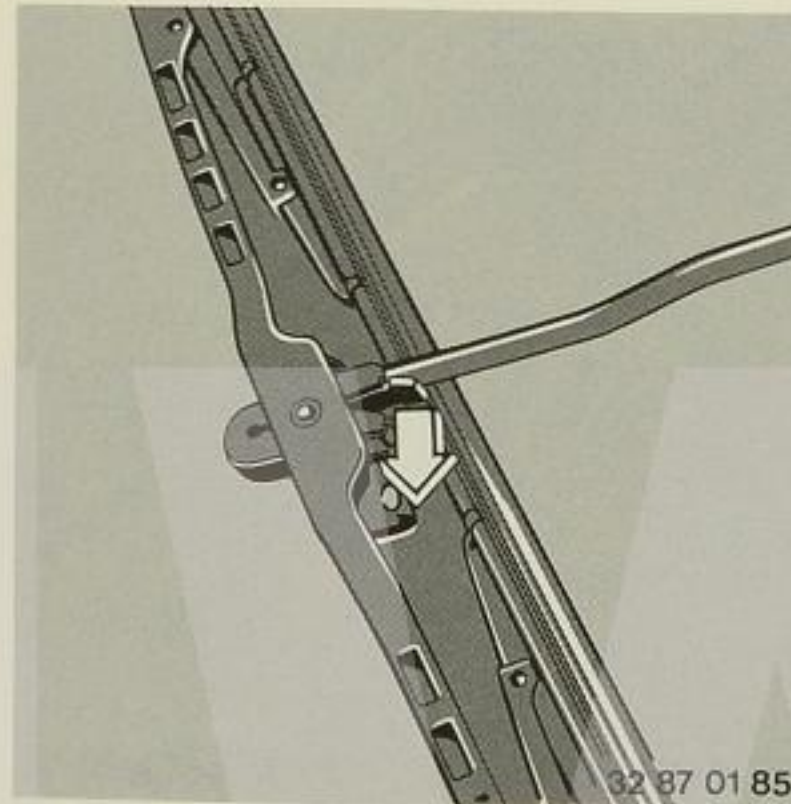
If the electronic portion of the power system fails, a noticeable decrease in steering effort at high speeds will become apparent.

Note: If the power assistance fails, a greater force than usual must be applied at the steering wheel to steer the car.

Self leveling suspension system

Indication in the Check Control display: "SUSPN LEVELING".

If vehicle is overloaded (rear end of vehicle is very low) observe permissible rear axle load and reduce if necessary. When the level changes to normal the display will extinguish. If a defect appears contact an authorized BMW dealer. Drive only with speeds below 106 mph (approx. 170 km/h), because of the larger camber the tires are under high demand. Obey local speed limits.

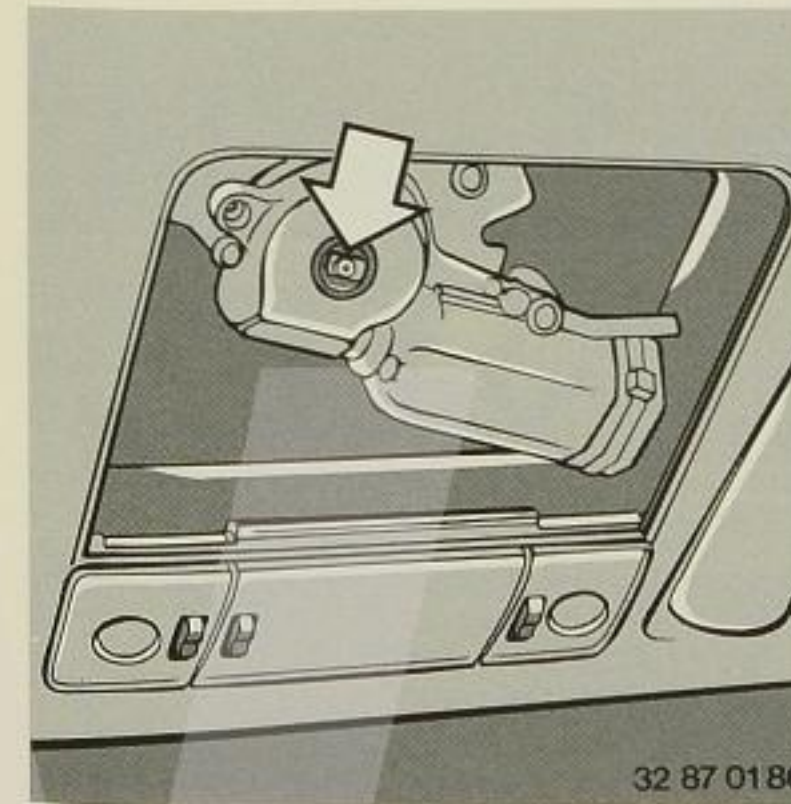


Wiper blades

To remove a **wiper blade**, swing the arm away from the windshield. Drivers side: First pull the outer retaining spring, then the inner one. Passengers side: Pull the retaining spring (only one existing) in the direction of the arrow and pull the blade towards the wiper arm.

The complete **wiper arm** can be pulled off after folding up the plastic cap and loosening the retaining nut.

Note: Do not manually move the wiper arms across the windshield because you may damage the wiper arms or pivots. Always loosen wiper blades frozen to the glass before operating the wipers to prevent damage to the wiper system.

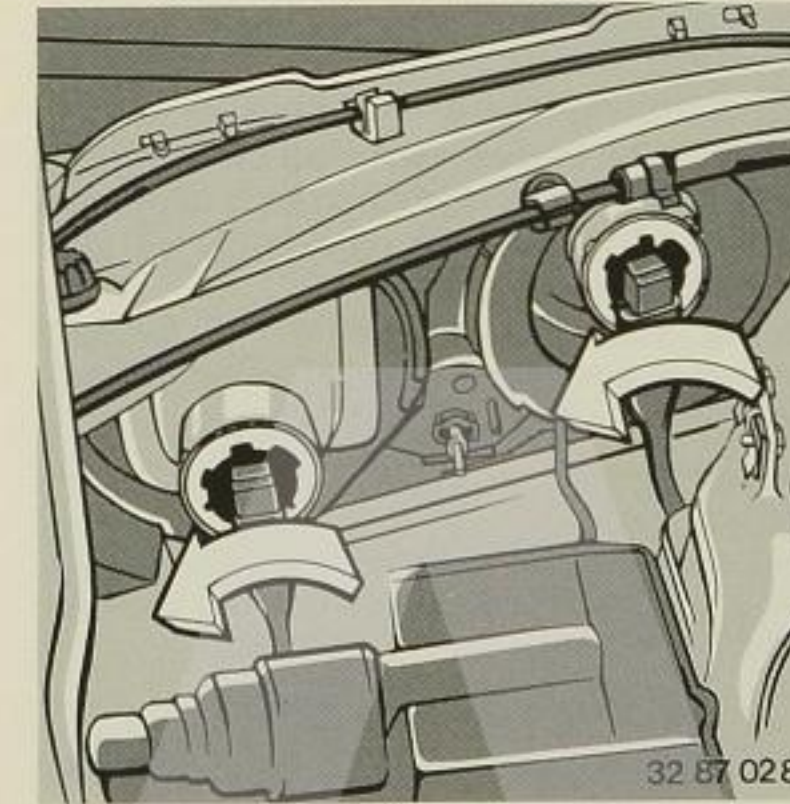


Sunroof

If the electric motor drive of the sunroof fails, the sunroof can be operated manually as follows (using tool supplied in the trunk lid.):

- Remove protection cap.

Adjust sunroof with an allen key to desired position.



Bulb changing

When **changing bulbs** or performing any other minor jobs on the electrical system, avoid short circuits by leaving the system being repaired switched off or disconnecting the negative lead at the battery.

When replacing bulbs always use a clean cloth to keep the glass free of contamination.

Caution: The halogen headlamp bulb contains gas under pressure. The bulb may shatter if the glass envelope is scratched or the bulb is dropped.

The **headlight** bulbs (55 Watt) for the **low beams** are in the two outer lamps.

Open the engine hood, turn the lamp holder with the cable counter clockwise and remove it from the back side of the headlights.

Replace the bulb.

BMW 750 iL: Before changing a bulb detach the air filter assembly.

As **correct headlight adjustment** is of particular importance in view of traffic safety, the headlights should be adjusted by a workshop using the proper equipment.

The headlight bulbs (55 Watt) for the **high beams** – i.e. the inner lamps – must be replaced in the same way.

Xenon-Headlight*

The low beams are equipped with new developed bulbs (D 1= discharge version 1) 35 Watt.

When switching on, the pressurized gas (Xenon) in the bulb is ignited with a high voltage. After a short delay the maximum luminous intensity is attained. Specifically designed safety devices are provided.

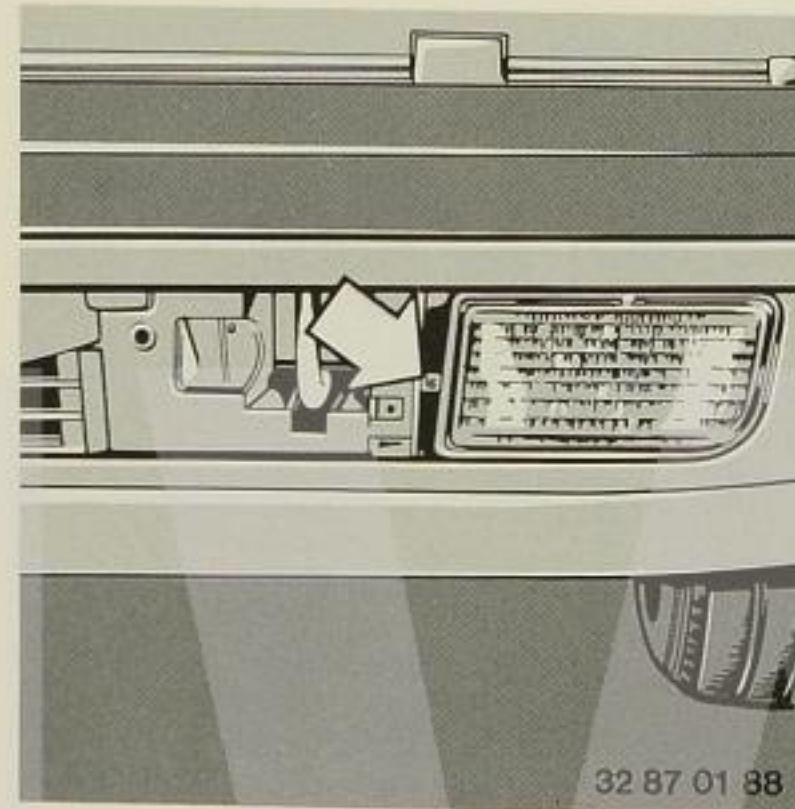
The three times higher luminous efficiency is used to illuminate the area in front of the vehicle and along the roadside.

The operating life of the bulb is longer. Fading bulbs can be identified by fluttering, a turn to red and a decline in high intensity. Unnecessary switching on and off reduces the bulb's operating life.

Glaring headlights (e. g. defect on the self leveling suspension system) must be adjusted or repaired by your BMW dealer.

Warning:
High voltage.

Any work on the system, including bulb changing, should only be carried out by qualified personnel or your BMW dealer.



32 87 01 88

Fog light

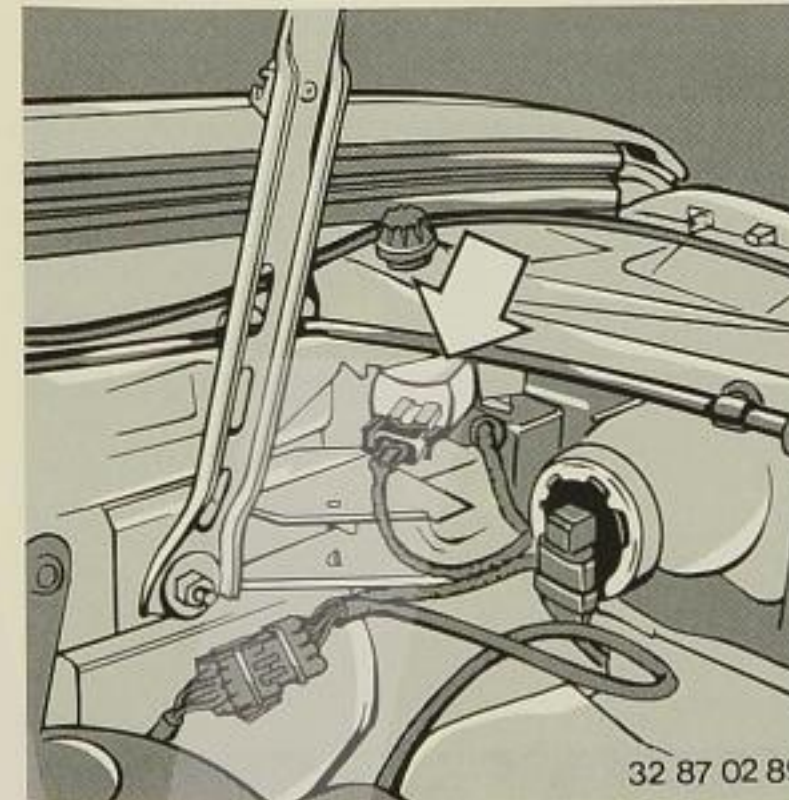
H 1, 55 Watt bulb.

Take off cover for towing eyes.

Loosen screw and remove fog light assembly.

Turn the rear cover for the bulb to the left and remove it.

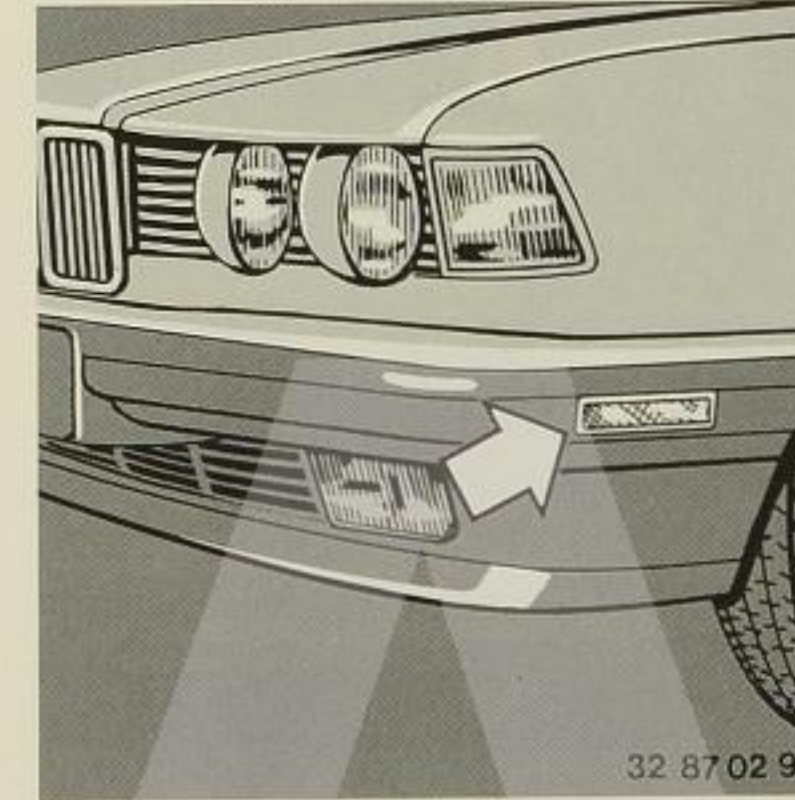
Take off securing spring and plug to remove bulb.



32 87 02 89

Parking light and front turn signal light

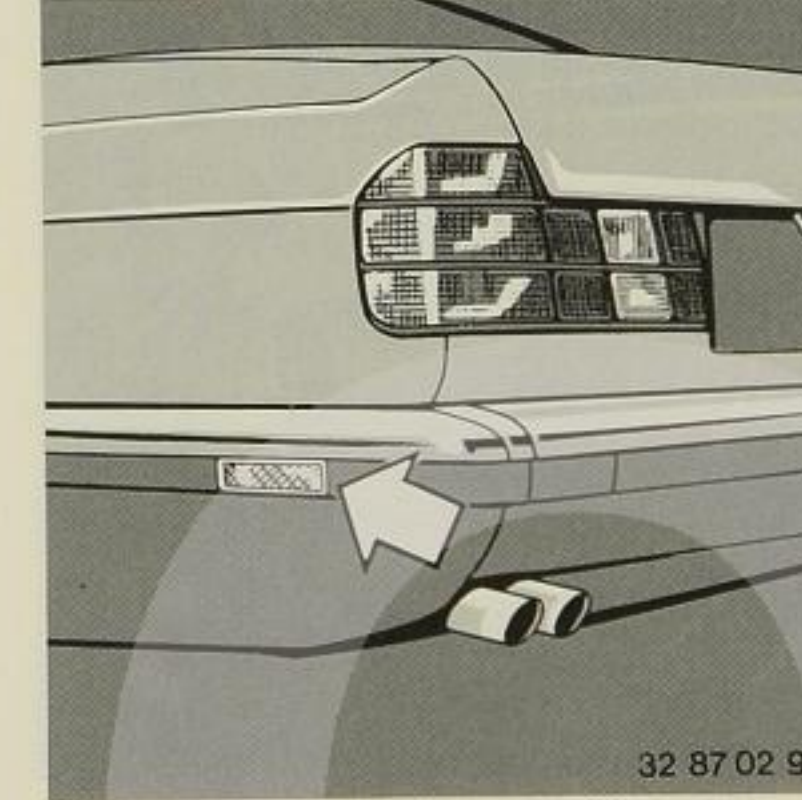
The parking light and front turn signal light are housed in the plastic lenses. The bulb holder must be slightly pressed in and turned counterclockwise to remove. The 21/5 W bulb must be pressed in slightly and turned counterclockwise to remove.



32 87 02 95

Front side marker

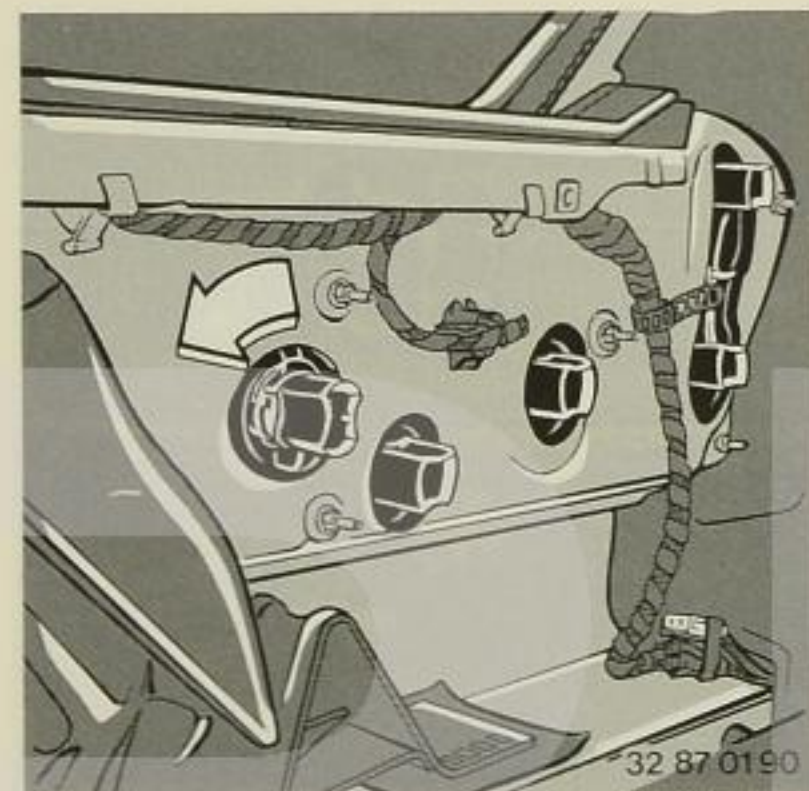
A front side marker light is installed on both sides of your car. The side marker lights are equipped with 4 Watt bulbs. To replace, remove the plastic lens with a screwdriver.



32 87 02 94

Rear side marker

A rear side marker light is installed on both sides of your car. The side marker lights are equipped with 4 Watt bulbs. To replace, remove the plastic lens with a screwdriver.



Rear light

Open the trunk, remove the rear lining panel.

Turn the bulb holder counter-clockwise (arrow) to remove.

Remove the defective bulb from its holder and insert a new bulb.

Turn indicator – 21 Watt bulb.

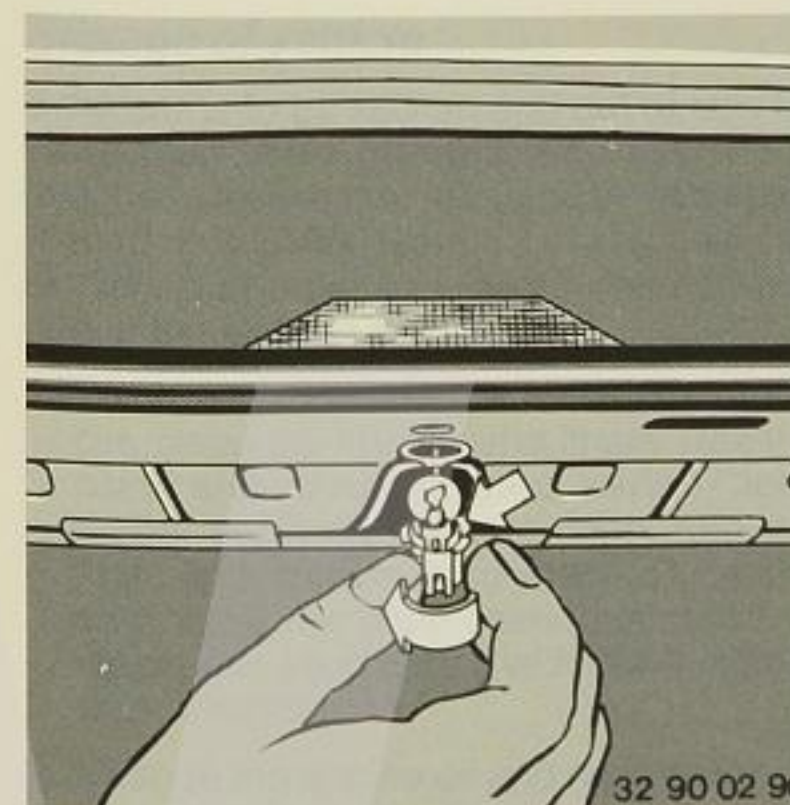
Rear (tail) light – 5 Watt bulb.

Brake (stop) light – 21 Watt bulb.

Reversing (back-up) light – 21 Watt bulb.



- 1 – Reversing (back-up) light
- 2 – Brake (stop) light
- 3 – Rear (tail) light
- 4 – Flashing turn indicator
- 5 – Reflector



High mount brake (stop) light

To change the 21 Watt bulb, open the trunk and turn the lamp holder in the recess below the rearshelf counter-clockwise.

When replacing the lamp holder make sure the big guide lever (upper arrow) is facing to the right.

Trunk light

10 Watt bulbs

Pull out the assembly using a screwdriver, and change the bulb.

Engine compartment light

10 Watt bulbs

Pull out the lense from the right side using a screwdriver, remove the cover and change the bulb.

Interior light

Interior light: 15 Watt bulbs

Lift out from the left side. Pull out the assembly, release the locking blade and fold back the reflector. Change the bulb by spreading apart the contact blades.

Map lights: 10 Watt bulbs

Lift out from the left side. The bulbs must be slightly pressed in and turned counter-clockwise to remove.

Rear interior lights: 10 Watt bulbs

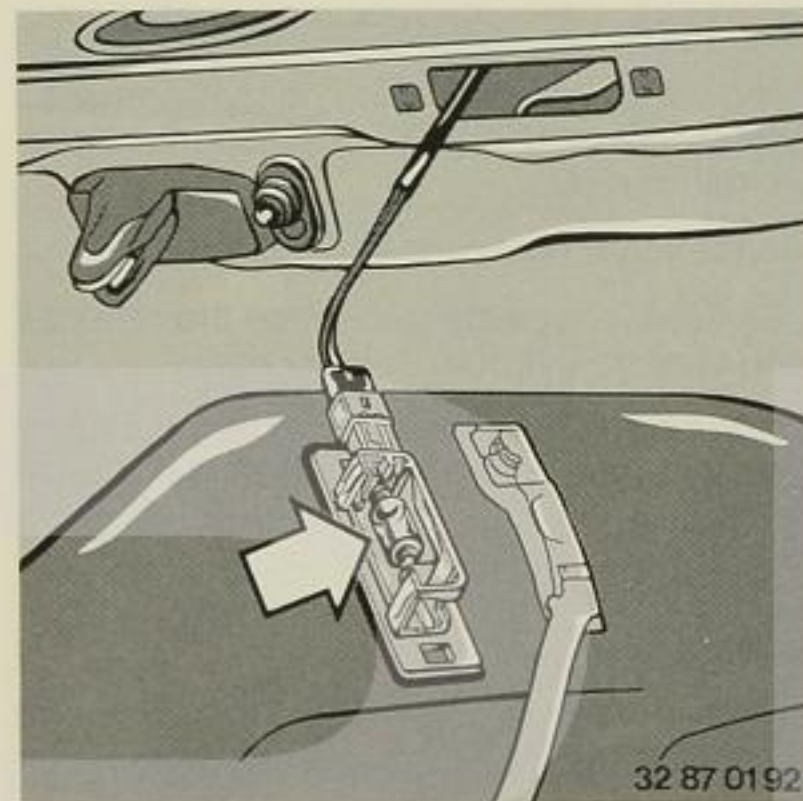
Pull out the assembly, remove the reflector and change the bulb.

Rear map lights: The bulb must be slightly pressed in and turned counter-clockwise to remove.

Footwell lights

5 Watt bulb

Remove the lens while pulling the lower part first. The bulb has to be slightly pressed in and turned counter-clockwise to remove.



License plate light

Pry out the black cover with the help of a screwdriver.

Remove the two Phillips head screws and take off the lens frame with rubber seal. The contact blades for the 5 Watt tubular type bulb must make good spring contact and the metal surfaces must be clean. If necessary, clean and bend in the contact blades.

Storage of vehicle

If the car is to be laid up and out of use for **more than three months**, we recommend that the following maintenance work be performed by a BMW dealer or at any qualified workshop in order to prevent deterioration during the storage period.

1. Wash the body and the underside of the car, clean the interior and finally wax the paint and chrome-plated parts. Clean rubber seals on lids and doors and rub them with talcum or glycerin. If necessary, have the undercoating checked or repaired in accordance with BMW factory recommendations.
2. Change the engine oil and replace the oil filter element while the engine is at normal operating temperature. As an additional anti-corrosion measure, a corrosion inhibitor can be added to the engine oil as specified by the supplier.
3. Check coolant level and concentration, and top up if necessary.
4. Check acid level in battery cells and top up with distilled water if necessary.
5. Drain the windshield washer fluid tank and lines.
6. The fuel tank should be filled, to prevent condensate.
7. Increase tire pressures to 60 psi (4 bar).

Immediately before the car is taken out of use; the foot brake and the parking brake should be applied while driving until warm

so that the pads and linings are dry and the brake discs and drums will not corrode.

Store the car in a dry, well-ventilated space. Engage reverse gear (Automatic: selector lever position P). Do not apply the parking brake. If necessary, chock a wheel to prevent rolling.

Disconnect the negative lead from the battery. If there is any risk of freezing, remove the battery and store in a warmer place. The battery must be recharged at least every 3 months or it will become unsuitable for further use. Each discharge over long periods will reduce the lifetime of the battery.

The air conditioning must be run briefly at least once a month at an ambient temperature of at least 41°F (5°C) (this is particularly important in the cold season of the year), or else the compressor shaft seals may dry out and permit refrigerant to leak. The engine should run for this purpose until it reaches its normal operating temperature (coolant thermometer needle approximately midway between the two colored zones). This will avoid condensate formation and the risk of internal engine corrosion. If the car is not equipped with air conditioning, do not run the engine during the storage period.

Warning:

If the engine needs to be run for the above reasons, do so only in a well ventilated space to avoid inhaling exhaust fumes.

Restoring car to use

First recharge the battery, or replace it if necessary. The following maintenance work should then be carried out.

1. Change the engine oil and the oil filter element while the engine is at normal operating temperature.
2. Refill the windshield washer fluid tank with windshield washer solvent, if necessary.
3. Restore tire pressures to the correct values.

The Inspection I should be performed by a BMW dealer.

Winter operation

The winter months often bring with them severe changes in the weather, and you must not only adopt a correspondingly careful attitude to driving but also take a few precautions to ensure that your BMW comes through the winter months reliably and without breakdowns.

On winter roads, tire grip is often very poor, and the driver must remember that braking distances are much greater than usual in many situations.

Before the cold season of the year commences, you are recommended to take your car to a BMW dealer, or any other qualified service establishment for the necessary winter preparations to be carried out.

Note in addition the **engine oil specifications** for winter operation.

Do not wait until the next routine oil change to fill the engine with winter grade oil if the weather turns cold suddenly.

Apart from checking oil levels during a BMW Inspection, no special winter operating precautions are needed on the manual/automatic transmission, power steering or hydraulic brake system.

The coolant on your BMW already contains a long-term antifreeze and corrosion inhibitor. The concentration must be kept at 50% all year. This will provide anti-freeze protection down to approx. -34°F (-37°C).

Use only reputable brand ethylene glycol **antifreeze** with corrosion inhibitors that are nitrite and amino free and compatible with aluminium radiators.

Replace the coolant every 2 years. Check antifreeze concentration before and during the cold season. At the same time, inspect the cooling system for leaks and any coolant hoses which may have become porous or brittle.

Engine temperature is regulated by the coolant thermostat according to outside temperature and engine load. For this reason, **no radiator cover should be fitted** or the radiator grille blocked off.

The engine will only start reliably if the **battery** is fully charged. Remember, though, that a cold battery is less efficient, yet the demands made on it are more severe than in warm weather, with less driving after dark.

Use only factory-approved care products* on the **door locks**, to prevent unreliable operation.

These products also help to prevent the locks from freezing; but if a lock should freeze despite these precautions, the key can be heated before inserting to thaw out the lock.

Do not use antifreeze solvents because they may take off the grease and affect the lock function.

To prevent **rubber seals** on doors and lids from freezing, treat them with a rubbercare product or silicone spray.

The car's **paintwork** or **polished metal parts** should be protected before and during the winter months by applying suitable bodywork care products*.

Engine temperature is regulated by the engine coolant temperature sensor according to outside temperature and engine load. For this reason, **no radiator cover should be fitted** or the radiator grille blocked off.

Have your BMW's brakes checked as a precaution before and after each winter driving period. This work can usually be combined with whatever maintenance routine happens to fall due.

* Available from BMW dealers

Winter tires

If winter tires (radial-ply tires with special winter tread pattern) are installed, they must be of the same make and tread pattern **on all four wheels** in the interests of good directional stability and steering control.

Your BMW dealer will be glad to advise you on selecting the right winter tire for the anticipated operating conditions.

The speed rating code letters indicate the maximum permissible road speeds for winter tires (subject to legal limits):

Permissible maximum speeds for winter tires:

- Q – 100 mile/h (160 km/h)
- T – 118 mile/h (190 km/h)
- H – 130 mile/h (210 km/h)

Always adhere strictly to the maximum road speeds specified for your winter tires.

When tread depth has worn to less than 0.16 in. (4 mm), tires become much less effective in winter, and should be replaced as a safety precaution.

Observe the specified **tire inflation pressures** and have the wheels balanced whenever you change a tire or wheel.

In cold weather we recommend carrying the following items in case of emergency:

- a quantity of sand for traction on ice covered slopes
- a **shovel** to extricate the car from snowdrifts
- a **plank** to act as a support for the car's jack
- a **brush and ice scraper** to clean the windows and body panels if they are covered with snow or ice.

Use only snow chains* according to SAE J 1232 classification "S". The snow chains may be used on drive wheels (rear) only. When mounting snow chains always pay attention to manuals and instructions of the manufacturer.

Caution: Even if your local speed limit for cars with snow chains is higher, or there is no official speed limit, do not exceed 30 mph (50 km/h).

Winter driving hints

When planning a fairly long trip in winter, allow plenty of time in case severe weather conditions and bad roads are encountered. Local papers, radio and TV, the telephone service and the automobile clubs provide a source of information on local road conditions, and wheather certain mountain passes are open to traffic.

Before starting a trip, remove ice and snow from the windows, outside mirrors and light lenses. After a snow fall remove it from the roof, engine and trunk lid to prevent it from blowing off and obscuring your vision. Clear snow from the air entry grilles for the heater/ventilating system below the windshield, so that airflow is not impeded.

Before getting into the car, try to remove slush, snow and ice from your shoes to avoid the risk of slipping off the pedals.

Driving when wearing ski boots is definitely not recommended, as it is then difficult to operate the pedals sensitively or to avoid touching the wrong pedal accidentally.

After starting a cold engine particularly at temperatures below +5°F (-15°C), the gear shift may be stiff and the car's suspension may not respond smoothly for the first few minutes of a trip, and other items of equipment may prove noisier in operation. This is unavoidable while the oil is still thick.

When **driving on slippery surfaces**, depress the accelerator smoothly and slowly, and shift up to a higher gear quite early to avoid the use of high engine speeds. Keep a particularly large safety margin between your car and the one in front. Select the next lower gear when conditions permit before reaching an uphill or downhill gradient.

To improve traction on icy or snow covered roads and in hilly country when the car is otherwise unladen, 110 lbs (50 kg) of ballast can be carried in the trunk. Make sure that the ballast is secure and cannot slip.

If the car skids, ease back the accelerator and disengage the clutch by pressing the clutch pedal down; on automatic transmission cars, push the selector lever to "N". Try to steer into the skid and get the car back under control in this way.

When **braking** on surfaces affording only poor grip, particularly on hills, always try to prevent the wheels from locking, since locked wheels cannot be steered. If the wheels lock, release the brake pedal momentarily and then depress it again. This braking principle not only enables you to bring the car to a halt on an icy surface, but may even prove sufficient to help you steer round an obstacle.

Warning:

On slippery surfaces never downshift in order to obtain braking action. This could result in rear wheel slip and reduced vehicle control. This occurs too when ASC+T is defect or switched off. Your vehicle's ABS will not prevent this kind of loss of control.

Caution: Always declutch if braking with higher pedal pressures on slippery roads or on different road frictions.

If the car is **immobilized** in deep snow, sand or soft ground, pack some form of material under the rear wheels to provide extra grip before the car digs itself in too far. If no other material is available, use the car's floor mats. If possible, obtain help to push the car back on to a firm surface. With

a degree of skill, the car can be rocked out of the holes caused by spinning rear wheels: use a light throttle opening and select a forward gear and reverse in rapid succession, but avoid spinning the wheels, or the car will sink in deeper still. The parking brake can be applied lightly to prevent one rear wheel from spinning: remember to release it afterwards.

Caution: If the vehicle becomes stuck in deep snow, make sure that the snow is kept clear of the exhaust pipe.

To assure sufficient fresh air ventilation, open a window slightly on the side of the car that is out of the wind.

Snow chains are permitted on the rear (driven) wheels only. If used, fit them in good time. They increase driving safety on snow and ice, enable the car to climb hills without slipping and reduce braking distances. The driver must, however, accustom himself to the car's changed handling characteristics. Remove the snow chains as soon as possible, as on clear roads they wear out very rapidly.

During a break in the journey, or when filling the tank, remove **built-up snow and ice from inside the wheel arches**, to ensure that the steering and suspension movements are not impeded.

When **parking** your BMW, prevent it from rolling away by selecting 1st gear or reverse as appropriate, or moving the automatic transmission selector to "P". Apply the parking brake if parked on a slope. To prevent the parking brake linings from freezing to the drums in cold weather, use the parking brake to bring the car to a standstill from a slow speed, so that the linings and drums are dried by the heat thus generated.

Useful information on disc brakes

A disc brake system offers optimum braking efficiency, smooth response, and a high load capacity. The high temperatures which occur during brake applications, e.g. on mountain passes when driving quickly, necessitate a maximum degree of cooling which is provided by the air flow generated by the peripheral speed of the brake discs and wheel design. Altering vehicle design could inhibit air flow and impair braking effectiveness.

Wet conditions, dirt, salt spread on the roads in winter and brake disc corrosion can impair braking performance by increasing braking distances, altering the car's normal brake force distribution or causing variations in the coefficient of friction at the various wheels, so that the car pulls to one side.

A slight rust film may develop on any disc brake equipped vehicle parked for an extended period of time. The rust film will be substantially less or non-existent on the brake disc surface protected by the brake pads; therefore, after such periods of extended parking, the driver may notice a slight pulsation during braking. This pulsation will disappear as the brakes are used again. Slightly heavier than normal applications during braking will accelerate the rust removal process.

To assure proper seating of the brake pads to the discs to maximize braking effectiveness, it is essential to observe the break-in instructions for the braking system of a new vehicle or whenever new brake discs and/or pads are installed.

See operating instructions, break-in rules.

BMW brake components, wheels and tires have been carefully selected and engineered to provide a high degree of control under severe and diverse operating conditions. It is, therefore, recommended that BMW replacement parts be used and brake components, wheels and tires not be altered to maintain the carefully balanced braking and handling characteristics designed into your vehicle.

Keeping disc brakes in shape

Every now and then disc brakes should be applied quite hard once or twice from high speed – providing traffic conditions allow. The high brake pressure produced in the process ensures that the brake pads and discs are kept clean.

Similarly, on long trips in poor weather conditions, especially in winter when salt has been spread on the roads, it is advisable to apply the brakes firmly from time to time. This also tests their efficiency in the prevailing conditions (take care at temperatures around freezing point). Each 'test' application allows the self-cleaning action to take place and thus ensures the brakes' readiness for operation even under the worst weather conditions.

In wet conditions or during rainfall it is advisable to apply the brakes briefly with light pedal pressure every few miles. The heat generated in this way keeps the discs and pads dry for a certain period.

Before you park the car after driving through the rain, and especially if salt has been spread on the roads, lightly brake the car to a standstill so that the brake discs remain dry and cannot corrode easily.

If the brake discs already show signs of corrosion it is possible to cure the problem in its early stages by applying the brakes hard several times. Take care not to endanger other road users.

If brake disc corrosion is advanced and the brake pads are glazed, the discs and pads should be inspected, cleaned or repaired.

All you should know about tires

The factory-approved **radial-ply tires** have been chosen to suit your BMW and provide both optimum road safety and the desired level of ride comfort.

The condition of the tires and maintenance of the **specified tire pressures** are vital factors affecting tire life and also **road safety** to a very high degree.

Tire pressures

Incorrect tire pressures are a frequent cause of complaints concerning tires. Furthermore, they may seriously affect the roadholding of your BMW.

Check tire pressure at regular intervals and before starting fairly long trips, **but at least every two weeks.**

When increasing the load adjust the specified value.

If tire pressure are lower than specified, this will adversely affect road safety/stability by reducing lateral locating force. The increased degree of tire sidewall flexing will lead to excessive heat build-up and thus introduce an element of risk into highspeed driving. Fuel consumption will be increased by the tire's greater rolling resistance, and tread wear will be more rapid and lead to tire pre-damage. Keep in mind that a pre-damaged tire may fail much later at less load. If you notice a loss of pressure have the tire checked for leaks immediately. Do not forget to check the spare tire as well: it should be kept at approx. 4 psi (0,3 bar) above the specified pressure for a fully loaded vehicle.

The most effective braking action is always achieved not with locked wheels, but when the wheels are still just turning, the result obtained by the antilock brake system.

Locking the wheels can be dangerous, as locked front wheels can no longer be steered, and locked rear wheels cause the car to slide sideways or spin.

The engine's pumping loss due to operating the engine with closed throttle and frictional loss can be utilized effectively to brake the vehicle by selecting a lower gear up to the rpm limit of the engine. This technique is commonly referred to as "engine braking".

The brake system of your BMW should be checked regularly before and after the winter, possibly in conjunction with the prescribed inspection work.

We recommend you consult a BMW dealer or any other qualified service and repair establishment without delay in the event of any problems occurring in the brake system.

Caution: The movement of the brake pedal must never be obstructed by a floor mat or any other object. In case one of the two brake circuits fails, increased pedal travel is required to bring your vehicle to a full stop.

Never coast with the clutch pedal depressed, the shift lever in neutral, or the ignition switched off.

If tire pressures are too high, ride comfort will suffer, the tire may lack grip and tread wear will again be rapid and uneven.

Warning:

Do not overinflate tires. Overinflated tires can result in sudden deflation because they are more likely to become punctured or damaged by road debris or potholes, curbs, etc.

Tires have to withstand very severe loads at high speeds, particularly in hot weather and at the maximum weight limit for your car. Remember to increase tire pressures if loads are high, and not to exceed the **gross weight limit**.

Warning:

For your own safety: check tire pressures regularly!

Incorrect tire pressures cause increased tire wear and adversely affect road holding of the vehicle, leading to loss of control and personal injury.

Tire treads – tire damage

Check the condition of the tires frequently: look for damage, stones and nails, premature wear and overall tread pattern depth.

The **tire tread** is regarded as acceptable by law in many countries if only 0.04 in. (1 mm) deep, but it is advisable to renew tires when the tread depth has worn to 0.12 in. (3 mm). Below this depth, there is a serious risk of aquaplaning at even moderately high speeds when the roads do not appear to be too wet. If the tires wear down to 0.063 in. (1,6 mm) tread depth, a **wear indicator** will become visible at the base of the tread pattern as a reminder that the legal limit of tire wear is approaching.

Always match your road speed to the condition of your tires – particularly the remaining tread depth – and to weather conditions.

Tires must never have their treads regrooved, in view of the risk of damaging the tire carcass.

Warning:

Do not drive with worn tires or tires showing cuts, bruises or other damage because they may lead to sudden deflation causing loss of vehicle control and personal injury.

When driving on wet or slushy roads, a wedge of water may build up between the tires and the road. This phenomenon is known as aquaplaning or hydroplaning and may cause partial or complete loss of traction, vehicle control or stopping ability. Always reduce speed on wet roads.

Any foreign body (nail or similar sharp object) penetrating the tire may cause a slow leak which will be recognized by the need to correct the tire pressure more frequently. In this event the tire should be checked and either repaired or replaced as soon as possible by your BMW dealer or a specialized tire workshop.

Drive at a moderate speed over poor road surfaces and approach unavoidable obstructions, such as a curb or severe bump in the road, with care so that the inner structure of the tire does not suffer internal damage invisible to you.

Take care not to damage the tire sidewalls when parking or driving onto loading ramps, car lifts etc.

Warning:

Do not overload the tires and exceed the specified vehicle capacity weight. Overloading the tires can overheat them, possibly causing a deflation.

Tire damage (sudden loss of pressure) can be extremely dangerous for both yourself and other road user.

Do not drive with a flat tire. Always keep in mind: Flat tires affect the ability to steer or brake the vehicle (e. g. on bridges or in tunnels).

Replacing tires

Only tires of the same type and construction must be fitted on all four wheels. A mixture of cross (bias)-ply and radial-ply tires should not be used as it will alter the vehicle's handling properties.

Furthermore, all tires should be of the same make and tread pattern, in order to maintain the good ride, function of ABS and handling properties of your BMW.

BMW does not approve of the use of remolded or retreaded tires owing to the possibility of differences in the tire carcasses and their sometimes very advanced signs of aging, which can have a detrimental effect on their durability and, under certain circumstances, the car's handling and safety.

Tire tread wear on the front wheels tends (for design reasons) to be slightly more rapid on the outer shoulders of the tire, whereas on the rear wheels it is concentrated more on the inner shoulders and the center of the tread. For this reason, the best and most consistent roadholding and grip are obtained if the tires are not interchanged between the front and rear wheels, although overall tire life may then be slightly reduced.

On the other hand, we recommend that front and rear wheel alignment be checked once a year and whenever new tires are installed. Any excessive rates of tire wear imply that wheel alignment is incorrect; this should be checked and repaired.

If, as a means of prolonging tire life, you wish to have the wheels rotated please bear the following in mind:

Changing the wheels from front to rear on the same side can have, in certain conditions, only a negligible effect on the service life, whereas the handling and braking as well as the road-holding may be adversely affected.

If desired, the spare tire can also be put into use. In this case one must remember that this spare tire, possibly new, must be broken in and will not have at first the same degree of adhesion. Rotating the wheels must be done on the same side and at short intervals (approx. 3,000 miles [max. 5000 km]).

Tires, which are 10 years and older, should only be used if they are fitted and to be driven to wear-off.

Spare tires, 6 years and older, should only be used in an emergency and not used mixed with new tires.

Before undertaking any change to the tires on your car, please consult a BMW dealer concerning the practical value, legal position and factory recommendations.

We recommend the exclusive use of BMW approved tires.

Cars which are capable of a maximum speed in excess of 135 mph (220 km/h) must use certain tire makes and sizes. Ask your BMW dealer for details. Obey your local regulations.

A knowledge of tire and rim markings will help you make the right choice of tire.

The speed rating code letters indicate the maximum permissible road speeds for summer tires (subject to legal limits):

S	= up to 112 mph (180 km/h)
T	= up to 118 mph (190 km/h)
H	= up to 130 mph (210 km/h)
V	= up to 149 mph (240 km/h)
VR	= over 130 mph (210 km/h)
ZR	= over 149 mph (240 km/h)

The tire valves are provided with **screw dust caps** to keep out dirt. If dirt enters the valve, a slow leak may result.

Caution: When replacing or changing tubeless tires, always replace the rubber valve as safety precaution.

Improper treatment can endanger your personal safety. If you are not familiar with the pertinent safety rules, ask your BMW dealer to perform the necessary work.

Unmounted tires should be stored in a cool, dry and dark area. Tires should be cleaned from oil, grease and gasoline.

During the following period a difference in roadholding and straight driving (possibly brake pulling to one side, smaller contact surface of rear wheels on the road) must be allowed for.

In the interests of your safety and optimum driving conditions we recommend that the wheels not be rotated, because the increase in service life is negligible. With non-standard wheels and tires the wheels should definitely not be rotated.

Before undertaking any **technical modifications** to your car, please consult a BMW dealer (quoting the chassis number) concerning the practical value, legal position and factory attitude to such modifications.

The following BMW wheels and tire sizes are approved:

Radial-ply tubeless tires	Pressed-steel wheels	Alloy wheels
BMW 740i, 740iL, 750iL		
225/60 ZR 15		7 Jx15 H2
240/45 ZR 415		195 TR 415
225/60 R 15 95 Q M+S		7 Jx15 H2
240/45 R 415 94 H M+S		195 TR 415

The installation of snow chains* on tire/wheel combination 240/45 R 415 tire and 195 TR 415 wheel is not permitted.

Use only snow chains* according to SAE J 1232 classification "S". The snow chains may be used on drive wheels (rear by twos) only. When mounting snow chains always adhere to the instructions of the manufacturer.

Any unauthorized modifications to your car may void your warranty (see your Service Warranty Information booklet).

Warning:

The use of wheel rims and wheel bolts that do not meet 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 road holding and can lead to loss of vehicle control.

Roof rack *

To ensure the lowest possible roof loads and optimum drag characteristics, use only BMW tested and approved luggage and **ski racks***. When installing a **roof rack**, make sure that the mountings fit securely to the roof and are located as far apart as possible.

The roof load must be evenly distributed and not too large. Always stow the heaviest items at the bottom.

Make sure that luggage on the roof is tightly and properly secured so that there is no danger of it shifting or even coming loose. Consider the danger to other road-users.

Drive smoothly, avoiding jerky starts and sudden braking, and do not take corners and curves too fast.

Luggage on the roof increases the frontal area of the car, leading to higher fuel consumption and roof stresses.

It is recommended the luggage rack be taken off the car when not needed.

The **ski rack** (accessory) should be loaded so that the tail ends of the skis point forwards. Put only one pair of skis in each holder, with poles in the trunk. Check all holders regularly.

Ski racks to match your car can be obtained from your BMW dealer.

PLEASE COMPLY WITH APPLICABLE STATE LAWS.

Antilock Brake-System (ABS)

BMW's unceasing efforts to improve its car's active safety have led to the development of the Antilock Brake System (ABS).

Whenever a brake application is made, the ABS is required to satisfy two fundamental requirements:

- To maintain the car's stability on varying surfaces (asphalt, concrete, mud, wet roads, snow and ice)
- To ensure that the car can be steered and maneuvered under these adverse conditions.

These requirements must be seen in the light of certain essential accompanying factors.

Even ABS is unable to prevent the natural laws of physics from acting on the car. It cannot for instance avoid the consequences of braking when there is insufficient distance remaining to the car in front, when cornering limit speeds are exceeded or if there is a risk of aquaplaning (tires riding up on a cushion of water lying on the road surface). It remains the driver's task to judge speeds and brake applications correctly in such conditions.

The fact that the car may be equipped with ABS must never, despite the increased safety margins this system frequently affords, tempt the driver into taking risks which could affect his safety and that of other road users.

Driving a car equipped with ABS

After the engine has been started, the yellow ANTI LOCK warning light on the instrument panel will go out.

The system itself is then in working order, but does not come into action until road speed exceeds approx. 2.5 mph (8 km/h). After this minimum speed limit has been passed, the ABS can prevent the wheels from locking when the driver applies the brakes. If the speed drops below approx. 2 mph (3 km/h), the ABS will cease to operate, so that in theory the wheels could lock at the very end of a brake application, though in practice this is not critical at such a slow speed. The ABS regulating cycle is repeated over and over again within fractions of a second. To inform the driver that his brake application has caused the ABS to come into action, a pulsating effect is noticed at the brake pedal, together with a characteristic noise. As a warning to watch out for surfaces on which the tires cannot grip well, a "chattering" sound is heard when the ABS is controlling the braking pressure; this reminds the driver to reduce speed to suit the poor road conditions.

The ABS is capable of achieving the shortest possible braking distances in any given conditions (either in a straight line or when the steering wheel is turned, and on smooth asphalt, ice, wet roads etc.). The braking distance may be slightly longer on loose surfaces on top of a firm base, such as snow, since the skidding wheels of a conventionally-braked car tend to build up a buffer of the loose material as they are forced through it. This may also be the case if snow chains are fitted. However, the

benefits of greater stability and the fact that the car can be steered more than outweigh this occasional slight drawback.

Any modification or repair of the ABS by unauthorized personal can lead to improper working order. Always fit the approved tire sizes. **Any malfunction is indicated by the yellow ANTILOCK warning light on the instrument panel coming on. The brake system then operates conventionally as on cars not equipped with ABS. However if you continue to drive the vehicle, additional malfunctions may occur. For this reason have the ABS system repaired as soon as possible.** Keep in mind, however, that the most effective braking action is not achieved with locked wheels, but when the wheels are just turning.

Locking the wheels can be dangerous, as locked front wheels can no longer be steered, and locked rear wheels cause the car to slide sideways or spin.

Caution: Although the ABS is very effective always remember that braking capability is limited by tire traction. Always adjust your driving speed according to the road and traffic conditions. Do not let the extra safety afforded by the ABS tempt you taking extra risks. The ABS cannot overcome the laws of physics. ABS cannot prevent accidents, including those resulting from excessive speed in turns, following another vehicle too closely, or aquaplaning. The capabilities of an ABS equipped car must never be exploited in a reckless or dangerous manner which could jeopardize your safety or the safety of others.

Automatic Stability Control + Traction (ASC+T) *

As a means of ensuring improved dynamic stability control, especially when accelerating and cornering, BMW has included ASC+T in some models. The system helps prevent the rear wheels from spinning even in unfavorable road conditions (i. e. slippery surfaces).

The traction and force which the tires can transmit onto the road surface depends to a certain degree on your driving style and road surface condition. Under no circumstances should the limits imposed by these factors be exceeded or else the vehicle may become difficult to control.

ASC+T is a highly responsive system which uses the ABS wheel sensors to detect wheel rotating speeds. If a difference is detected, the system automatically reduces engine power output. With ASC+T the driven wheels are also braked if necessary.

However, even a car with ASC+T is subject to the normal physical laws, so that the driver must still avoid speeds at which tire grip cannot be maintained or lateral forces become too high. It would be irresponsible to misuse the additional safety margin which ASC+T can provide in certain circumstances to drive at the very limit of the car's performance when this would constitute a self-evident safety risk.

If not all the tires are of the same pattern, ASC+T may react oversensitively. Only fit tires of the same make and tread pattern.

To improve traction the ASC+T system can be switched off and the car's driveline allowed to operate conventionally. It is also advisable to switch it off when trying to rock the car out of deep snow or a soft surface (see "Winter operation") and when snow chains are fitted.

Caution: Only fit tires of the same make, tread pattern and size since the ASC+T system may not function properly if all the tires are not of the same make, tread pattern or size.

Disc-type limited-slip differential *

In very unfavorable driving conditions the conventional form of differential may be unable to transmit torque to the road wheels without wheelslip occurring. The limited-slip differential greatly reduces the undesirable and possible dangerous situation in which one driven wheel starts to spin.

In practice, this means that improved traction is provided when pulling away, accelerating and taking corners at speed in poor driving conditions.

At the same time, the car tends to spin around the vertical axis at the center of gravity at high power outputs and load reversals on slippery road surfaces. A good deal of skill is required to control a skid and extreme care must be taken especially when driving in an enthusiastic manner.

The locking action is produced by the friction of lined discs, and depends on the load exerted; the differential gear shafts, thrust rings and symmetrically located inner discs tend to move apart and brake the wheel generating the greater accelerative force.

As disc friction takes increasing effect, it retards or entirely prevents wheelspin on that side of the car, so that the other wheel can grip and keep the car moving.

A major advantage of the limited-slip differential is that it operates automatically when needed, and does not have to be engaged by the driver.

Accessory

Mobile communication systems, particularly if not properly designed for automotive use or not properly installed, may adversely affect the operation of the vehicle; for example, such systems, when operated, may cause the engine to stumble or stall. In addition, such systems may themselves be damaged, or their operation affected, by the operation of the vehicle.

Do not operate systems with the antenna inside of the vehicle or not properly installed.

Because BMW has no control over the design or manufacture of such systems, or their installation, BMW cannot assume responsibility for any such adverse effects or damage.

Care and maintenance

Your brand-new BMW is a splendid sight. Whether it stays that way, perhaps even for many years, depends on you, and on the care you are prepared to take.

Since the car's paint is exposed to so many potential environmental hazards, automobile manufacturers and paint suppliers are constantly working on further improvements to the strength and durability of modern paints.

The composition of the paints used by BMW, and the manner in which they are applied are to the very latest technical standards in this specialized field.

The manufacturer has used careful design techniques and the latest production methods for the body and other components to ensure that general upkeep of the car is simplified. The materials used were thoroughly tested in laboratories and under practical conditions before being approved, and are constantly being improved or updated as technical standards develop. This is BMW quality down to the last detail.

The high-gloss paint finish is not only chosen to appeal to owner's personal taste as far as the color is concerned, but also to provide maximum protection. It consists of **several layers** for reliable corrosion-proofing; the body **cavities** are not only primer-coated by the cataphoretic dip process, but also coated with materials specially developed for this purpose in lengthy tests. The entire underside of the floor pan is given a sprayed-on, resilient PVC coating, followed by complete waxbased undersealing.

Have the body including the underside of the floor pan examined by a BMW dealer. Full details are given in the Service Warranty Information booklet*.

It is always more pleasant to drive a clean, well-kept car, but it is equally true to say that regular care and maintenance can make a big contribution to safety and to your car's resale value.

The points to watch are listed below

A large number of external influences can affect the quality and appearance of your car's paint, some of them purely local in origin. They govern the amount of care the paint will need and how often it should be attended to.

Road dust and dirt, the airborne deposits encountered in industrial areas such as fly ash, lime and soot, even tar stains, dead insects, bird droppings and the stains left when the car is parked under trees all contain various chemicals which, if allowed to remain on for a long time, can damage the paint in the form of patches, blisters, corrosion, flaking paint and similar. The car should therefore be washed as often as necessary.

In industrial areas, the horizontal panels of the body in particular may suffer from deposits of fly ash, lime, oil soot or substances containing sulphur dioxide ("acid rain"), as well as other less easily identified deposits. Only regular care of the paint can avoid or minimize damage in such circumstances.

In coastal regions the high salt content and humidity of the atmosphere greatly increase the risk of body panel corrosion.

In the case of mechanical damage caused by sand, road salt, grit etc. the paint surface may be damaged or penetrated, and corrosion may then spread across the panel under the paint.

All you should know about paint care:

To protect the car from the start against gradual deterioration of the paint in areas of high atmospheric pollution or where "natural" substances in the air could damage the paint finish (industrial zones, railways, sap and resin from trees, pollen, bird droppings), it is important to **wash the car once a week**. In severe cases, wash the car whenever the paint finish appears to be dirty.

Remove spilled fuel, oil, grease or brake fluid **at once**, as these substances can attack the paint or change its color.

Bird droppings should also be **removed without delay**, or they will damage the paint.

A new BMW can be put through an automatic car wash, or washed by hand, as soon as it is used on the roads.

When using an automatic car wash make sure the accessories (e. g. spoilers) could not be damaged. If necessary contact the car wash owner.

Dead insects should be soaked and wiped off **before** the main car wash.

Washing the car should be delayed if the engine compartment lid is still hot, or if the car has been parked or is still standing in strong sunlight, or else spots may form on the paint surface.

When using an **automatic car wash**, try to choose one with low brush pressure, and an ample supply of rinsing water. Most modern car washers satisfy these requirements. However, the areas not fully reached by the automatic system – door sills, panel flanges and seams on doors and lids etc. – should be cleaned by hand.

During the cold season of the year in particular, it is advisable for the car to be washed more frequently, since the heavy dirt deposits and salt from wet roads are more difficult to remove and will damage the entire car if left on too long.

When the car is washed, take the opportunity to clean the interior and trunk with a vacuum cleaner.

If you wash the car by hand, first soften the dirt deposits on the paint with a fine water spray, and rinse them off. Do not spray water directly into the air inlets or outlets of the heating/ventilation system.

After spraying down, wash the upper part of the body starting with the roof with a sponge, or similar item using plenty of cold or lukewarm water. Rinse out the sponge frequently.

Wash the lower part of the body and the wheels last, if possible keeping a separate sponge just for these areas.

After washing, rinse the car again thoroughly with a hose and dry it with a clean chamois leather to prevent discolored spots where the water was not removed.

To protect the paint a paint-care product can be added to the water used for washing the car.

If washing with water alone is insufficient, a car shampoo or similar cleanser can be used in the concentration stated on the label. After this, rinse with plenty of water.

Note: After washing, the brakes may be wet and therefore less effective in action. Apply them briefly to dry the discs.

Any localized dirt patches or other contamination of the paint surface can best be seen after the car has been washed. Remove them as soon as possible. Eliminate tar stains with a special tar remover.

* US models only

Polish the paint at these points to restore its appearance and protect it.

Please use only **paint-care products** containing Carnauba or synthetic waxes, and comply with the instructions on the labels.

It is quite easy to decide when the car's paint needs polishing or presentative treatment: water no longer forms large round droplets and tends to roll off the surface. Depending on use of the car, this may arise after some 3 to 4 months.

If the paint tends to lose its high gloss as a result of insufficient care, a suitable **polish** must be applied. **Paint cleaner** is needed if the finish is already dull or weathered. An abrasive **polishing compound** or **paint restorer** should only be used in very severe or obstinate cases. Remember that all polishes, cleaners or paint restorers act by removing a layer of paint and exposing paint which is still in good condition.

Only if the new paint surface is most carefully protected will the overall brilliance of your car's paint be regained.

After care of the car's paint, remove traces of the products used from the windows with a suitable glass cleaner.

Minor paint damage can be touched up with either a paint spray or paint stick, which is used like a brush. The correct paint color designation is on an adhesive label in the engine compartment.

Damage caused by flying stones, scratches etc. must be touched in without delay, to prevent rust from forming.

If damaged areas of paint have already started to rust, use a wire brush to clean them up, and apply rust converter (protect the eyes and skin). Allow a few minutes for this to take effect, then rinse off with water and dry thoroughly. Apply primer and allow to dry, then apply the top coat. After a few days, polish the repaired area and apply a paint preservative.

More extensive paint damage should be professionally repaired in accordance with the manufacturer's instructions. The BMW Service Organization knows and will apply the full repair procedure to ensure a long lasting repair of good appearance.

Another important note:

If a tarpaulin or similar sheet is used to protect the car against the weather, moisture condensate may collect (particularly in the case of plastic sheet) and cause the plasticizers to diffuse out of the paint. There is also a severe risk of scratching the paint surface; it is far better to protect your BMW against ultraviolet rays from bright sunlight and against rainfall etc. by giving it the full body care treatment described before. Ideally, in countries where the sun is extremely hot and powerful a canvas sun-sheet should be stretched above the car.

Annual cleaning and protection or treatment of the engine, engine compartment, underbody, axles and other mechanical assemblies can be carried out by your BMW dealer. This not only reduces the risk of serious corrosion to a minimum, but also avoids short-circuits caused by accumulated oil and dirt, and reveals leaks before they become severe. This treatment is par-

ticularly important at the end of the winter season.

For information on the Body-six-year limited anti-corrosion warranty against rust perforation refer to your Warranty Booklet.

Polished metal parts should be cleaned regularly with water, to which a car shampoo can be added if required. Do not neglect this treatment in winter if salt is spread on the roads.

Alloy wheels should be treated with a special wheel-rim cleanser, particularly during the winter months. Do not use aggressive-action products containing acids, strong alkalis or abrasives. Alloy wheels should not be cleaned with a steam jet at a temperature higher than 140°F (60°C). Please note the cleanser manufacturer's instructions.

The inside surfaces of windows (and mirror glasses) can be cleaned and smearing avoided with glass cleaner. Never clean mirror glasses with polishing pastes or abrasive (quartz) cleansers.

Plastic components, leatherette upholstery, roof linings, light lenses and items sprayed matt black should be cleaned with water to which a car shampoo may be added. Do not allow the roof lining to become wet right through. If necessary, apply a plastic cleaner to plastic components. Never use solvents such as lacquer thinners, fuel etc.

Rubber components should only be cleaned with water or treated with a rubber cleanser or silicone spray.

To clean the **inside of the windows** we recommend a 1:1 mixture of water and vinegar.

Clean the **wiper blades** with soapy water: The wiper blades should be replaced twice a year, before and after the cold season.

Carpet and **floor mats*** are possible to clean. For details ask your BMW dealer. For easy cleaning unfold the holder to remove floor mats.

Seatbelts should only be cleaned with a weak soap and water solution without removal from the car. Never attempt chemical or dry cleaning or else the fabric of the belts may be damaged. Never allow **automatic** (inertia-lock) **seatbelts** to retract while they are still wet. Clean the seat belts if they become dirty or muddy, as dirt penetrating the reel mechanisms could prevent them from locking or keeping the belts taut and thus constitute a safety risk.

Care of upholstery fabric

The cloth used by BMW is notable for hard wear, good heat transmission, freedom from sliding, a soft and attractive surface and easy care.

If certain areas of the seat acquire an unwanted gloss as a result of heat, friction or moisture, they should be brushed "against the pile" with a slightly moistened brush.

The pile of velour material tends to lie flat in use: as with many furnishing fabrics and clothing materials, this is unavoidable and does not detract from its quality.

Fluff and loose threads or abraded leather particles on upholstery fabrics are best removed with a suitable lint brush. Clean off stains or large dirty marks at once with lukewarm water, car-interior cleaner or stain remover. Afterwards, brush the fabric to restore the pile.

Seat upholstery fabrics can acquire a **static electrical charge**, particularly when atmospheric humidity is low. Persons touching metal parts of the body **after** leaving the car may then receive an unpleasant but harmless electric shock. Remember to touch an exposed metal part of the car **while getting out**: this will disperse the electric charge without its being noticed.

The **upholstery leather** used by BMW on its cars is a high-grade natural product treated by the latest processes. If carefully looked after, it will retain its high quality for many years.

Regular (monthly) cleaning and general care is essential, since dust and road dirt penetrate the pores and creases and cause the surface to wear away and become brittle.

Clean the leather surfaces with a slightly moist cotton or woollen cloth, but do not soak the leather right through at the seams. Dry the leather and rub it with a clean, soft cloth.

Very dirty areas on leather upholstery can be cleaned with a mild detergent (suitable for woollens) containing no brightening agents. Use 2 tablespoons to 1 US quart (one liter) of water.

When using leather care or cleaner agents, rub with a soft cloth and polish after the treatment.

Unightly bald patches or minor surface damage can be rectified with leather spray lacquer.

If the car is parked for a long time in bright sunlight, it is advisable to cover the seats and the head rests or better the windows, to prevent bleaching of the colors.

Dyes used in some leather clothing items may, under certain conditions, transfer to the leather seat upholstery, causing discoloring or spotting.

Stains on the interior trim upholstery – except for real or imitation leather – should be removed with commercial foam spray. Brush down fabric surfaces afterwards. Rub plastic trim with a stiff sponge.

Wear patches on corduroy or velour fabrics are caused by pressure during frequent use and should be brushed "against the pile" with a slightly moist brush.

Warning:

Cleaning agents may be poisonous. Keep them out of the reach of children. Observe all warning and caution labels. Open doors or windows when cleaning the inside. Never use fluids or solvents that are not made for cleaning a car. Always read directions on the container before using any product.

Engine and performance data

	BMW 740i / BMW 740iL		BMW 750iL	
Displacement – effective	243 cu.in.	(3982 cm ³)	304.4 cu.in.	(4988 cm ³)
Max. output at engine speed	282 hp 5800 rpm	(210 kW)	296 hp 5200 rpm	(220 kW)
Max. torque at engine speed	295 lb-ft 4500 rpm	(400 Nm)	332 lb-ft 4100	(450 Nm)
Cylinder	8		12	
Compression ratio	10.0		8.8	
Stroke/bore	3.4/3.6 in. (80/89 mm)		2.95/3.31 in. (75/84 mm)	
Top speed – automatic transmission	149 mph	(240 km/h)	155 mph	(250 km/h)
Acceleration				
0 – 50 mph/0 – 80 km/h	5.5 seconds		5.4 seconds	
Standing start 1/4 mile in	15.5 seconds		15.4 seconds	

Dimensions and weights

	BMW 740i	BMW 740iL, BMW 750iL
Length	193.3 in. (4910 mm)	197.8 in. (5024 mm)
Width	72.6 in. (1845 mm)	
Height (unloaded)	55.6 in. (1411 mm)	55.1 in. (1400 mm)
Wheelbase	111.5 in. (2833 mm)	116.0 in. (2947 mm)
Front overhang	34.9 in. (888 mm)	
Rear overhang	46.8 in. (1190 mm)	46.8 in. (1189 mm)
Front track	60.2 in. (1530 mm)	
Rear track	61.3 in. (1558 mm)	
Min. turning circle (wheels)	35.4 ft. (10.8 m)	36.8 ft. (11.2 m)
Min. turning circle (overall)	38.1 ft. (11.6 m)	39.4 ft. (12.0 m)
Unloaded weight (ready for road, tank full according to FMVSS 110)	4002 lbs (1815 kg)	4090 lbs (1855 kg)
Permissible gross weight	5038 lbs (2285 kg)	5127 lbs (2325 kg)
Permissible front axle load	2804 lbs (1090 kg)	2448 lbs (1110 kg)
Permissible rear axle load	2762 lbs (1255 kg)	2822 lbs (1280 kg)
Maximum vehicle load*	1035 lbs (470 kg)	
Permissible roof load	220 lbs (100 kg)	
Trunk capacity acc. to VDA test	17.6 cu. ft. (500 liter)	

*** Caution:**

On vehicles with load levelling system the luggage weight in the trunk must not exceed 250 lbs (120 kg). Although the permissible gross and rear axle load weight must not exceed.

Ratios**Transmission ratios**

	BMW 740i/L Auto- matic	750iL Auto- matic
1st	3.55	2.48
2nd	2.24	1.48
3rd	1.54	1.00
4th	1.00	0.73
5th	0.79	—
Reverse	3.68	2.09

Electrical system

Generator 140 A, 1960 W

Starter Bosch GF 12 V
1.1 kW

Battery 12 V, 85 A h

Spark plugs

740i, 740iL Bosch F 7 LDCR

750iL Bosch F 8 LCR

Electrode gap

0.027+0.004 in. (0.7+0.1mm)

Firing order

740i, 740iL 1-5-4-8-6-3-7-2

750 iL 1-7-5-11-3-9-6-12-2-8-4-10

Warning:

The ignition system is a high-performance ignition system, and it is highly dangerous to touch any ignition-components when the engine is running.

Index

Acceleration figures 97
 Accessory power socket 40
 Airbag 19
 Air conditioner 36
 Air conditioning compressor 106
 Air outlets 36
 Alarm system, operation 44
 Antifreeze 65
 Antilock Brake System (ABS) 89
 – warning light 30
 Armrest 43
 Ashtrays 40
 Automatic Climate Control 36
 Automatic Stability
 Control + Traction (ASC + T) 30, 39, 90
 Automatic transmission 32
 – fluid 105
 – kick-down 34
 Automatic transmission selector lever 33
 Axle loads 98

Back-up lights 76
 Battery 66
 – charge indicator 30
 – electrolyte level 66
 – specification 99
 Blower control
 – automatic climate control 36
 – Ventilation/heating 38
 Body dimensions 98
 – overhang 98
 Brake booster and power steering
 – fluid level 65
 – warning light 30
 Brake and clutch fluid level 65
BRAKE FLUID 65, 72
 Brake (stop) lights 76
BRAKE LININGS 72
 – pads 58

BRAKE PRESSURE 72

Braking system 72
 Break-in hints 58
 Bulb changing 73

Care of car 92
 Center armrest 43
 Central locking system 9
 Chassis number 61
CHECK CONTROL, function 28
 Childproof safety device 12
 Child restraints 18
 Cigarette lighter 40
 Circuit breaker 41
 Clock, digital 46
 Coin-box 41
 Cold starting 56
 Cold weather operation 56, 80
 Compression ratio 97
 Convenience closing 41
COOLANT LEVEL 65
COOLANT TEMPERATURE 27
 Cooling system capacity 105
 Cruise control 45

Defrosting of windows 36
 Differential – see Rear axle
 Dimensions 98
 Dimmer switch 24
 Disc brakes 84
 Door locks 9
 Double locking system 10
 Door mirrors 20
 Driver's seat adjustment 13
 Driving hints 56, 80, 82

Electric seat adjustment 13
 Electric seat heating 16
 Electric window lifts 41
 Electrical system 99

Electronic Damping Control (EDC) 38
 Electronic-hydraulic transmission 34
 Emergency locking/unlocking 10
 Emission control system 57
 Energy-conscious driving 6, 57
 Engine break-in hints 58
 Engine compartment at a glance 62, 63
ENGINE data 97
 – firing order 99
 – hood 60
 – oil change 64
 – oil grades 64
 – oil level 64
 – **OIL PRESS** 30, 64
 – specifications 97
 Evaporative Emission Control
 – System 57

Fasten seat belt warning light 17
 Firing order 99
 Flashlight, rechargeable 41
 Fog light switch 31
 Fog light washer 25
 Foreign countries, travels 59
 Fresh air outlets 36, 38
 Front seat adjustment 13
 Front side marker 75
 Front turn signal light 75
 Fuel consumption indicator 26
 Fuel economy 6, 59
 Fuel filler flap 6
 Fuel gauge 27
 Fuel requirement 57
 Fuel reserve 27
 Fuel tank capacity 105
 Fuel and lubricants 105
 Fuses 67

Generator 99, 106
 Glove box 40

Hazard warning flasher 31
 Headlight parking and side marker light
 switch 24
 Headlights 24, 73
 Headlight flasher 24
 Headlight/Fog light washer 25
 Headrests 13, 14
 Heated rear window 31
 High beam headlights 73
 High mount brake light 76
 Hood release 60
 Horns 25

Ignition/starter switch 22
 Indicator lights 30
 Instrument light 24
 Instrument panel 24
 Interior light 77
 – switch 39
 Interior mirror 21
 Intermittent wiper action 25

Jack 70
 Jump starting 68

Keys 9

Leather upholstery 93
 License plate lights 78
 Light switch 24
 Low beam headlights 73
 Lumbar support 16

Make-up mirror 21
 Map-reading lights 77
 Microfilter 38
 Mirrors 13, 20
 Mobile communication systems 91
 Modifications, technical 88

Octane number 6, 105
 Oil additives 64
 Oil level check, engine 64
OIL LEVEL SENSOR 29
OIL PRESS SENSOR 29
 Oil pressure warning light 30
 On-Board Computer 46
 Output max. 97
 Oxygen sensor 57

Paint care 93
PARKING BRAKE 32
 Parking lights 24, 75
 Parked car ventilation 49, 52
 Pick-up points (wheel jack) 70
 Polishing/waxing 94
 Power socket 40
POWER STEERING 65, 106
 – **FLUID** level 65, 72
 Power windows 41

Radial-ply tires 85
 Radio 54
 Rear axle
 – oil capacity 105
 – oil grades 105
 Rear lights 76
 Rear seat adjustment 14
 Rear seat heating 16
 Rear view mirror 21
 Rear window defogger 31
 Remote control
 – On-Board Computer 47
 – telephone 46
 – Vehicle Security System 44
 Reporting safety defects 1
 Reverse gear, selecting 32
 Roller sunshade 43
 Roof load 98
 Roof rack 89

Seat adjustment 13
 Seatbelts 17
 Seat heating 16
 Service-Indicator 27
 Side marker lights 75
 Ski bag 53
 Ski rack 89
 Snow chains 81, 88
 Spare tire 70
 Spark plugs 99
 Speedometer 26
 Starter 99
 Starting the engine 22, 56
 Steering column adjusting 15
 Steering fluid level 65
 Stop lights 76
 Storage, vehicle laid up and out of use 79
 Stroke/bore 97
 Sunroof 42, 73
 Sun shade 43
 Sun visor 21
 Supplementary Restraint System (SRS) 19
SUSPN LEVELING (Self leveling
 suspension system) 65, 72

Tachometer 26
 Telephone 46
 Three way catalytic converter 57
 Tires inflation pressures 106
 Tires, punctures 70
 Tires, sizes 88
 Tool kit 68
 Top speed 97
 Towing 69
TRANSMISSION PROGRAM 32
 – pattern 32
 – oil capacity 105
 – oil grades 105
 – ratios 99
 Tread wear indicator 86
 Trip odometer 26

Trunk

- capacity 98
- light 11, 77
- locking 11

Turn signal lever 24

V-belts, dimensions 106

Vehicle care 92

Vehicle dimension 98

Vehicle Identification Number 61

Vehicle load 98

Ventilation 36

Warning chime 28

Warning lights 30

Washer fluid tank 62, 63

Washing/waxing 93, 94

Wheel bolt torque 71

Wheel bolt wrench 70

Wheel changing 70

Wheel chock 70

Wheel sizes 88

Wheels, interchanging 87

Window lift circuit breaker 41

Window lift switches 41

Windshield cleaning system

reservoirs 62, 63

Windshield washer fluid tank 62, 63

– capacity 105

Windshield washer jets 63

Windshield wiper/Washer lever 25

Winter operation 80

Winter tires 81

Wiper blades 72

Note:

Titles in bold print are indications of the Check Control, which refers to "OWNER'S MANUAL".

Filling SuperStar

Fuel tank

Washing/waxing system

Washing/waxing system

Washing/waxing system

Washing/waxing system

Washing/waxing system

Washing/waxing system

Washing/waxing system

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Washing/waxing system

Filling capacities

		Notes
Fuel tank	approx. 21.4 US gal (81 liters) – BMW 740i approx. 24 US gal (91 liters) – BMW 740iL, BMW 750iL	BMW 740i, 740iL: Unleaded premium gasoline (90 AKI or 95 RON) BMW 750iL: Unleaded gasoline (87 AKI or 91 RON)
Windshield wipe-wash system including headlight- and foglight cleaning system	approx. 2.6 US quarts (2.5 liters) BMW 750iL: 6.7 US quarts (6.5 liters) approx. 7.9 US quarts (7.5 liters) BMW 750iL: 9.5 US quarts (9.0 liters)	For details, see pages 62, 63
Cooling system including heater circuit	approx. 13.2 US quarts (12.5 liters) BMW 750iL: 13.7 US quarts (13 liters)	For details, see page 65
Engine oil with oil filter change	7.9 US quarts (7.5 liters)	Brand name engine oil, rated SE or higher; for oil grades, see page 64
Automatic transmission	For oil change: BMW 750iL: 3.7 US quarts (3.5 liters) BMW 740i, 740iL: Lifetime fluid fill	BMW 750i: Use only brand name automatic transmission fluids of Dexron® II. BMW 740i, 740iL: Use only Shell LA 2634 Automatic transmission fluid or contact your BMW dealer To avoid overfilling, oil level should only be checked at maintenance intervals.
Rear axle	2.0 US quarts (1.9 liters)	Use only BMW Synthetic Final Drive Oil or Castrol SAF-XO

Service station information**V-belts****BMW 740i, 740iL****Water pump-generator-power steering**

7 Kx1605

Air conditioning compressor

5 Kx980

BMW 750iL**Generator and power steering pump**

6 Kx1080

Water pump and air conditioning compressor

5 Kx1165

Tires

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.

The installation of snow chains on tire/wheel combination 240/45 R 415 and 195 TR 415 wheel is not permitted.

The speed rating code letters indicate the maximum permissible road speeds for summer tires (subject to legal limits):

S = up to 112 mph (180 km/h)

T = up to 118 mph (190 km/h)

H = up to 130 mph (210 km/h)

V = up to 149 mph (240 km/h)

VR = over 130 mph (210 km/h)

ZR = over 149 mph (240 km/h)

Permissible maximum speeds for winter tires:

Q – 100 mph (160 km/h)

T – 118 mph (190 km/h)

H – 130 mph (210 km/h)

For your own safety – check tire pressures regularly


Correct tire pressure is essential for your and everybody's safety. Incorrect tire pressure can lead to serious crash (no vehicle stability, tire destruction).

Cold tire inflation pressure adequate for speeds up to 125 mph (200 km/h).


Tire pressures in psi (bar) when cold (ambient temperature). On warm tires the pressure can rise about 4 psi (approx. 0.3 bar). Changes in temperature vary the tire pressure (18°F/10°C = 1.5 psi/0.1 bar).

The quoted pressures apply to makes of tires recommended by BMW and which are known by your BMW dealer. A label showing tire pressures is attached to the driver's door post. If other makes of tires are fitted, higher pressures may be necessary.

Operation in USA (valid for all permissible loads):

BMW model	Radial-ply tubeless tires		
740i	225/60 ZR 15	35 (2.4)	39 (2.7)
740iL	240/45 ZR 415		
750iL	225/60 R 15 95 Q M&S 240/45 R 415 94 H M&S		

Operation outside USA and Canada:

			
Load up to 4 persons*		29 (2.0)	35 (2.4)
Max. vehicle weight limit*		35 (2.4)	39 (2.7)

* For speeds higher than 125 mph (200 km/h) add 7 psi/0.5 bar.

When towing a trailer, use the pressures for heavier loads.



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