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Dear Owner,

We would like to thank you for your purchase of a Porsche Sports car.

Judging by the car you have chosen, you are a motorist of a special breed, and you are probably no novice when it comes to automobiles.

Remember however, as with any vehicle, you should take time to familiarize yourself with your Porsche and its performance characteristics. Always drive within your own unique capabilities as a driver and your level of experience with your Porsche. Ensure that anyone else driving your Porsche does the same. To prevent or minimize injury, always use your safety belts. Never consume alcohol or drugs before or during the operation of your vehicle.

This Owner's Manual contains a host of useful information. Please take the time to read this manual before you drive your new Porsche. Become familiar with the operation of your Porsche car for maximum safety and operating pleasure. The better you know your Porsche, the more pleasure you will experience driving your new car.
Always keep your Owner's Manual in the car, and give it to the new owner if you ever sell your Porsche.

A separate Maintenance Booklet explains how you can keep your Porsche in top driving condition by having it serviced regularly.
A separate Warranty and Customer Information Booklet contains detailed information about the warranties covering your Porsche.

For U.S. only:
If you believe that your vehicle has a fault which could cause a crash, injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Porsche Cars North America, Inc. (Porsche Cars N.A.).

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety problem exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you and your dealer, or Porsche Cars N.A..

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

Your car has thousands of parts and components which have been designed and manufactured in accordance with Porsche's high standards of engineering quality and safety.

Any alteration of the vehicle may negate or interfere with those safety features built into the vehicle.

Your Porsche is intended to be used in a safe manner obeying the local laws and in the light of driving conditions faced by you, and in accordance with the instructions provided in this Owner's Manual.

Do not misuse your Porsche by ignoring those laws and driving conditions, or by ignoring the instructions in this manual.
Any alteration or misuse of the vehicle can lead to accidents and severe or fatal personal injuries.

Regularly check your vehicle for signs of damage.
Damaged or missing aerodynamic components such as spoilers or underside panels affect the driving behavior and therefore must be replaced immediately.

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Your car may have all or some of the components described in this manual.
Should you have difficulty understanding any of the explanations of features or equipment installed in your vehicle, contact your authorized Porsche dealer. He/She will be glad to assist you. Also check with your dealer on other available options or equipment.

Throughout this booklet, left is designated as the driver's side of the vehicle, and right as the passenger's side of the vehicle.

Text, illustrations and specifications in this manual are based on the information available at the time of printing.

It has always been Porsche's policy to continuously improve its products. Porsche, therefore, reserves the right to make changes in design and specification, and to make additions or improvements in its product without incurring any obligation to install them on products previously manufactured.

We wish you many miles of safe and pleasurable driving in your Porsche.

Important
For your own protection and longer service life of your car, please heed all operating instructions and special warnings. These special warnings use the safety alert symbol, followed by the words **Danger**, **Warning and Caution**. These special warnings contain important messages regarding your safety and/or the potential for damage to your Porsche. Ignoring them could result in serious mechanical failure or even physical injury.

Do not alter your Porsche. Any alteration could create dangerous conditions or defeat safety engineering features built into your car.

Do not misuse your Porsche. Use it safely, and consistently with the law, according to the driving conditions, and the instructions in this manual.

Alteration or misuse of your Porsche could cause accidents and severe or fatal personal injuries.

Note to owners

In Canada, this manual is also available in French. To obtain a copy contact your dealer or write to:

Note aux proprietaires

Au Canada on peut se procurer un exemplaire de ce Manuel en français auprès du concessionaire ou du:

Porsche Cars Canada, Ltd.
Automobiles Porsche Canada, LTEE

5045 Orbitor Drive
Building #11, Suite 302
Mississauga, Ontario
Canada L4W 4Y4

Telephone number for customer assistance:
1-800-PORSCHE / Option 3

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Fuel Quality

Your engine is designed to provide optimum performance and fuel economy using
unleaded premium fuel with an octane rating of 98 RON (93 CLC or AKI).
Porsche therefore recommends the use of these fuels in your vehicle.

Porsche also recognizes that these fuels may not always be available. Be assured that your vehicle will operate properly on unleaded premium fuels with octane numbers of at least **95 RON (90 CLC or AKI)**, since the engine's "Electronic Oktane™ knock control" will adapt the ignition timing, if necessary.

Fuels containing alcohol and ether

Some areas of the U.S. require oxygenated fuels during certain portions of the year.
Oxygenated fuels are fuels which contain alcohols (such as methanol or ethanol) or ether (such as MTBE).

Under normal conditions, the amount of these compounds in the fuel will not affect driveability.

You may use oxygenated fuels in your Porsche, provided the octane requirements for your vehicle are met.
We recommend, however, to change to a different fuel or station if any of the following problems occur with your vehicle:

– Deterioration of driveability and performance.

– Substantially reduced fuel economy.

– Vapor lock and non-start problems, especially at high altitude or at high temperature.

– Engine malfunction or stalling.

Fuels containing MMT

Some North American fuels contain an octane enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT).
If such fuels are used, your emission control system performance may be negatively affected.
The check engine warning lights on your instrument panel may turn on.
If this occurs, Porsche recommends you stop using fuels containing MMT.

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Tire Pressures for Cold Tires

Summer tires and snow tires

Front	36 psi (2.5 bar) overpressure
Rear	44 psi (3.0 bar) overpressure

Collapsible spare wheel

Vehicles **without** Porsche Ceramic Composite Brake:

Front and rear	36 psi (2.5 bar) overpressure

Vehicles **with** Porsche Ceramic Composite Brake:

Front and rear	41 psi (2.8 bar) overpressure

These tire pressures are valid only for Porsche approved tires.
For replacement tires it is imperative that you consult the Technical Data and Tires, Wheels sections of this manual and follow the recommendations contained therein.

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Porsche and the Environment

Environmental guidelines

We develop and produce exclusive sports cars with advanced environmental and safety technology and a great ability to fascinate.

Our environmental policy is based on the following principles:

- The maximum possible use of environmental and safety technology that is economically justifiable.
- Economical usage of energy and resources.
- Involvement of our business partners and contractors in our efforts to protect the environment.
- Open dialogue with all social groups.

California Proposition 65 Warning.

⚠ Warning!

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Production

The manufacture of Porsche vehicles in a factory adjacent to a residential area requires more than mere compliance with all laws and regulations.

Whether in production or repair, Porsche always relies on environmentally friendly technology.
An example of this is the water-based paint used in our painting installation.
Water-base paints and new painting methods reduce solvent emissions by 70 per cent.
And the water used in the painting installation is re-circulated. Waste water leaves the Porsche factory only after being appropriately treated.

A waste-management system has been introduced to reduce the amount of waste while simultaneously increasing the recycling rate.

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Environmentally friendly vehicles

Modern environmental technology ensures compliance with all emission laws applicable worldwide.

These have the following advantages:

- Rapid operational readiness of the catalytic converters ensures low emissions, even in short-trip operation.
- Reliable operation and good emission control over a long useful life.

Please note the chapter "Fuel Economy".

Recycling – for a Porsche, this is virtually an academic question

More than two-thirds of all Porsches ever built are still running.

Just in case recycling is ever necessary, we take the following precautionary measures:

- Identification of all materials.
- Use of recyclable materials.
- Reusable components designed for simple removal.
- These reasons result in a further increase in the recycling rate which is currently 80 per cent.

Emission control is built in

Innovative engine technology combines high engine performance and environmental compatibility.

The engine diagnosis system electronically monitors the components and systems that affect exhaust gases.

This continuous monitoring and fault storage enables swift, reliable diagnosis and fault detection.

Any fault messages are indicated to the driver by the "Check Engine" warning light and the onboard computer.

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Operation of communication systems and equipment while driving

Warning!

There is a danger of an accident if you operate or set the on-board computer, radio, navigation system, telephone or other equipment when driving.
This could distract you from the traffic and cause you to lose control of the vehicle.

- ▷ Operate the equipment while driving only if the traffic situation allows you to do so safely.
- ▷ Carry out any complicated operating or setting procedures only with the vehicle stationary.

Portable Fuel Containers

Danger!

Portable fuel containers, full or partially empty, may leak, causing an explosion, or result in fire in case of an accident.

- ▷ Never carry additional fuel in portable containers in your vehicle.

Engine Exhaust

Danger!

Engine exhaust is dangerous if inhaled.
Engine exhaust fumes have many components which you can smell. They also contain carbon monoxide (CO), which is a colorless and odorless gas.
Carbon monoxide can cause unconsciousness and even death if inhaled.

- ▷ Never start or let the engine run in an enclosed, unventilated area.
  It is not recommended to sit in your car for prolonged periods with the engine on and the car not moving.

Porsche Ceramic Composite Brake (PCCB)

The high-performance brake system is designed for optimal braking effect at all speeds and temperatures.
Certain speeds, braking forces and ambient conditions (such as temperature and humidity) therefore might cause brake noises.

Wear on the different components and braking system, such as brake pads or brake discs, depends to a great extent on the individual driving style and the conditions of use and therefore cannot be expressed in actual miles on the road.

The values communicated by Porsche are based on normal operation adapted to traffic. Wear increases considerably when the vehicle is driven on race tracks or through an aggressive driving style.

Please consult your authorized Porsche dealer about the current guidelines in effect before such use of your vehicle.

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Dear Porsche Owner

A lot has gone into the manufacture of your Porsche, including advanced engineering, rigid quality control and demanding inspections.
These engineering and safety features will be enhanced by you...

the safe driver...

who knows his car and all controls,

who maintains the vehicle properly,

who uses driving skills wisely, and always drives within her/his own capabilities and the level of familiarity with the vehicle.

You will find helpful hints in this manual on how to perform most of the checks listed on the following pages.
If in doubt, have these checks performed by your authorized Porsche dealer.

Before driving off...

Check the following items first

- ▷ Turn the engine off before you attempt any checks or repairs on the vehicle.
- ▷ Be sure the tires are inflated correctly. Check tires for damage and tire wear.
- ▷ See that wheel bolts are properly tightened and not loose or missing.
- ▷ Check engine oil level, add if necessary. Make it a habit to have engine oil checked with every fuel filling.
- ▷ Check all fluid levels such as windshield washer and brake fluid levels.
- ▷ Be sure the vehicle battery is well charged and cranks the engine properly.
- ▷ Check all doors and lids for proper operation and latch them properly.
- ▷ Check and if necessary replace worn or cracked wiper blades.
- ▷ See that all windows are clear and unobstructed.
- ▷ Check air intake slots and area between luggage compartment lid and windshield are free of snow and ice, so the heater and the windshield wipers work properly.
- ▷ If a child will be riding in the vehicle, check child seat/child seat restraint system to ensure that restraints are properly adjusted.
- ▷ Check all exterior and interior lights for operation and that the lenses are clean.
- ▷ Check the headlights for proper aim, and if necessary, have them adjusted.
- ▷ Check under the vehicle for leaks.
- ▷ Be sure all luggage is stowed securely.

Emergency equipment

It is good practice to carry emergency equipment in your vehicle.
Some of the items you should have are:
window scraper, snow brush, container or bag of sand or salt, emergency light, small shovel, first-aid kit, etc.

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In the driver's seat...

- Check operation of the horn.
- Position seat for easy reach of foot pedals and controls.
  To reduce the possibility of injury from the air-bag deployment, you should always sit back as far from the steering wheel as is practical, while still maintaining full vehicle control.
- Adjust the inside and outside rear view mirrors.
- Buckle your safety belts.
- Check operation of the foot and parking brake.
- Check all warning and indicator lights with ignition on and engine not running.
- Start engine and check all warning displays for warning symbols.
- Never leave an idling car unattended.
- Lock doors from inside, especially with children in the car to prevent inadvertent opening of doors from inside or outside.
  Drive with doors locked.

On the road...

- Never drive after you have consumed alcohol or drugs.
- Always have your safety belt fastened.
- Always drive defensively.
  Expect the unexpected.
- Use signals to indicate turns and lane changes.
- Turn on headlights at dusk or when the driving conditions warrant it.
- Always keep a safe distance from the vehicle in front of you, depending on traffic, road and weather conditions.
- Reduce speed at night and during inclement weather.
  Driving in wet weather requires caution and reduced speeds, particularly on roads with standing water, as the handling characteristics of the vehicle may be impaired due to hydroplaning of the tires.
- Always observe speed limits and obey road signs and traffic laws.
- When tired, get well off the road, stop and take a rest. Turn the engine off. Do not sit in the vehicle with engine idling.
  See warnings on "Engine Exhaust".
- When parked, always set the parking brake. Move the Tiptronic selector lever to "P" or the gearshift lever to reverse or first gear.
  On hills also turn the front wheels toward the curb.
- When emergency repairs become necessary, move the vehicle well off the road. Turn on the emergency flasher and use other warning devices to alert other motorists. Do not park or operate the vehicle in areas where the hot exhaust system may come in contact with dry grass, brush, fuel spill or other flammable material.
- Make it a habit to have the engine oil checked with every fuel filling.

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Break In Hints for the first 2000 miles (3000 kilometers)

The following tips will be helpful in obtaining optimum performance from your new Porsche.

Despite the most modern, high-precision manufacturing methods, it cannot be completely avoided that the moving parts have to wear in with each other. This wearing-in occurs mainly in the first 2000 miles (3000 km).

Therefore:

- ▷ Preferably take longer trips.
- ▷ Avoid frequent cold starts with short-distance driving whenever possible.
- ▷ Avoid full throttle starts and abrupt stops.
- ▷ Do not exceed maximum engine speed of 4,200 rpm (revolutions per minute).
- ▷ Do not run a cold engine at high rpm either in Neutral or in gear.
- ▷ Do not let the engine labor, especially when driving uphill. Shift to the next lower gear in time (use the most favorable rpm range).
- ▷ Never lug the engine in high gear at low speeds. This rule applies at all times, not just during the break-in period.
- ▷ Do not participate in motor racing events, sports driving schools, etc. during the first 2000 miles (3000 km).

There may be a slight stiffness in the steering, gear-shifting or other controls during the break-in period which will gradually disappear.

Break in brake pads

New brake pads and brake discs have to be "broken in", and therefore only attain optimal friction when the car has covered several hundred miles or km.
The slightly reduced braking ability must be compensated for by pressing the brake pedal harder. This also applies whenever the brake pads and brake discs are replaced.

New tires

New tires do not have maximum traction. They tend to be slippery.

- ▷ Break in new tires by driving at moderate speeds during the first 60 to 120 miles (100 to 200 km). Longer braking distances must be anticipated.

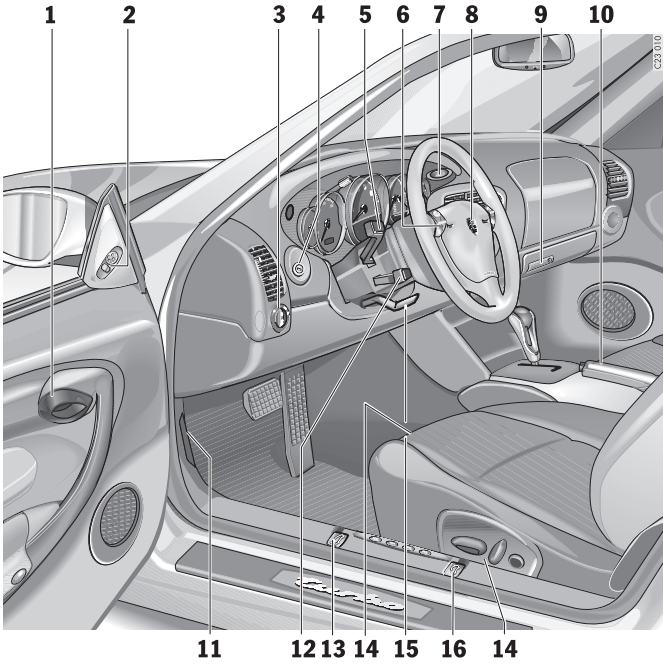
Engine oil consumption

During the break-in period oil consumption may be higher than normal.

As always, the rate of oil consumption depends on the quality and viscosity of oil, the speed at which the engine is operated, the climate and road conditions, as well as the amount of dilution and oxidation of the lubricant.

- ▷ Make a habit of checking engine oil with every fuel filling, add if necessary.

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1 Inner door handle
2 Door mirror control
3 Light switch
4 Ignition/starter switch with steering lock
5 Turn signal/headlight dimmer, flasher lever
6 Toggle switches for Tiptronic
7 Emergency flasher switch
8 Horn
9 Glove compartment
10 Parking brake
11 Diagnostic socket
12 Operating lever for on-board computer
13 Luggage compartment lid release
14 Seat adjustment
15 Steering-wheel adjustment
16 Engine compartment lid release

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Never invite car theft!

An unlocked car with the key in the ignition lock invites car theft.

A steering wheel lock and a **gong alarm** are standard equipment in your Porsche.
The gong alarm will sound if you open the driver's door while the key is still in the ignition lock. It is your reminder to pull the key out of the ignition lock and to lock the doors.

⚠ Warning!

Any uncontrolled movement of the vehicle may result in serious personal injury and property damage.
Never leave your vehicle unattended with the key in the ignition lock, especially if children and/or pets are left unattended in the vehicle. They can operate power windows and other controls. If the engine is left running, they may accidentally engage the shift lever.

- ▷ Always remove the ignition key.
- ▷ Always set the parking brake.
- ▷ Lock the doors with the key or with the remote control.

⚠ Warning!

Risk of a serious accident.
The steering column will lock when you remove the key while you are driving or as the car is rolling to a stop. You will not be able to steer the car.

- ▷ Never remove the key from the steering lock while you are driving.

To protect your vehicle and your possessions from theft, you should always proceed as follows when leaving your vehicle:

- ▷ Close windows.
- ▷ Close lifting/sliding roof.
- ▷ Remove ignition key.
- ▷ Engage steering lock.
- ▷ Lock storage tray between the front seats and glove compartment.
- ▷ Remove valuables (e.g. car documents, radio control module, telephone, house keys) from the car.
- ▷ Lock doors.

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Keys

Please note chapters "Central Locking and Alarm System".

Two main keys and one spare key are supplied with your Porsche.
These keys operate all the locks on your vehicle.

- ▷ Be careful with your car keys: do not part with them except under exceptional circumstances.
- ▷ To avoid battery run-down, always remove the ignition key from the ignition lock.

Replacement keys

Replacement car keys can be obtained only from your authorized Porsche dealer, and this can sometimes be very time-consuming.
You should therefore always keep the spare key on your person.
Keep it in a safe place (e.g. wallet), but under no circumstances in or on the vehicle.

The key codes of new keys have to be "reported" to the car control unit by your authorized Porsche dealer.

The key grip of the spare key can be exchanged for a main-key grip.

Disabling key codes

If a key is lost, the key codes can be disabled by an authorized Porsche dealer.
All the remaining car keys are required for this purpose.
Disabling the code ensures that the car can be **started** only using authorized keys.

Note

Please note that the other locks can still be opened with the disabled key.

Immobilizer

There is a transponder (an electronic component) in the key grip, containing a stored code.
When the ignition is switched on, the ignition lock checks the code.
The immobilizer can be deactivated and the engine started only using an authorized ignition key.

Note

If the ignition is left on for more than two minutes without starting the engine, the immobilizer is reactivated.

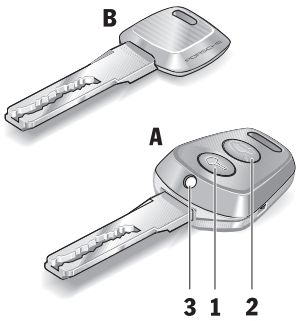
- ▷ If this happens, the ignition key must be turned back to the "0" position before the engine can be started.

The immobilizer is automatically activated when the ignition key is withdrawn.

Security Wheel Bolts

If wheels have to be removed during a workshop visit, do not forget to hand over the socket for the security wheel bolts along with the car key.

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AV1 004

A - *Main key*
1 - *Central locking button*
2 - *Luggage compartment lid button*
3 - *Light-emitting diode*
B - *Spare key*

Key with Radio Remote Control

Operating central locking, alarm system and seat memory

▷ Press button **1**.

Please observe the appropriate chapters of this Manual.

Unlocking luggage compartment lid

▷ Press button **2** for approx. two seconds.

If the vehicle was locked before the luggage compartment is opened, it is unlocked simultaneously with the luggage compartment.
In vehicles with seat memory the stored seat and door mirror positions are automatically set.
The vehicle will be locked again approx. 15 seconds after the luggage compartment is closed if none of the doors was opened.

Note

Your authorized Porsche dealer can program further types of luggage compartment unlocking.

Type 1

The relocking time of the doors can be adjusted to suit your individual requirements:
4 - 120 seconds.

Type 2

The doors stay locked when the luggage compartment is unlocked.

The remote-control standby function switches off after 5 days

If the vehicle is not started or unlocked with the remote control within five days, the remote control standby function is switched off (to prevent discharging of the vehicle battery).

1. In this case, unlock the driver's door with the key at the door lock.
   Leave the door closed in order to prevent the alarm system from being triggered.

2. Press button **1** on the remote control.

The remote control is now activated again.

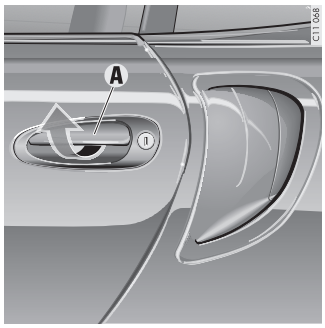
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Doors

Unlocking, locking

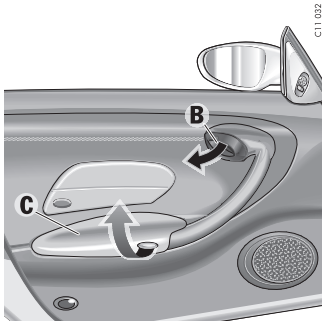
▷ Unlock or lock the door locks with the remote control **or** by using the key in the driver's door.

If the door windows are closed, they will be automatically opened by a few millimeters when the doors are opened and, when the doors are closed, they will be closed again. This makes it easier to open and close the doors and protects the seals.
Therefore, you should pull the door handle slowly so that the door window can be lowered before the door is opened.



Opening unlocked doors from outside

▷ Slowly pull door handle **A**.



Opening unlocked doors from inside

▷ Slowly pull door handle **B**.

Opening locked doors from inside

▷ Slowly pull door handle **B** twice.
Also refer to the chapter "Locking conditions".

Door storage tray

Always keep the door storage tray **C** closed, so that the side airbag is not obstructed in the event of an accident.

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Central Locking

USA: FCC ID LXPRKY 116;
FCC ID LXPVIM 145

Canada: TxF 315P 2255 102 275;
RxF 315P 2255 102 276 A

This device complies with:
Part 15 of the FCC Rules
RSS-210 of Industry Canada.

Operation of this device is subject to the following two conditions:
- It may not cause harmful interference, and
- it must accept any interference received including interference that may cause undesired operation.

Note

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.
Such modification could void the user's authority to operate the equipment.

See the chapter on "Load switch-off", "Power windows" and "Lifting/sliding roof".

Both car doors and the filler flap can be centrally unlocked or locked with the remote control.

If the driver's door is not completely closed, the vehicle cannot be locked.

A short **signal from the alarm horn** will draw your attention to the fact that the following components are not completely closed when you try to lock the vehicle:

- Passenger's door
- Luggage compartment lid
- Engine compartment lid
- Storage tray
- Glove compartment

Note

Unlocking the vehicle by using the key in the door lock and opening the door may activate the alarm system within 10 seconds.

Automatic relocking

If the car is unlocked by remote control and none of the car doors is opened within approx. 60 seconds, automatic relocking takes place.
This relocking time can be adapted to your individual requirements (4 - 120 seconds) by an authorized Porsche dealer.

Locking conditions

▷ Lock car **once**.
The doors cannot be opened from the outside.
Alarm system and infrared passenger compartment monitoring are switched on.

If a person or animal remains in the vehicle:

▷ Quickly lock car **twice**.
The doors cannot be opened from the outside.
The infrared passenger compartment monitoring is switched off.

Unlocking the door with the inner door handle

Any person remaining in the locked car can open the door with the inner door handle:

1. Pull inner door handle once to unlock door lock.

2. Pull inner door handle again to open door.

Note

Inform any person remaining in the car that the alarm system will be triggered if the door is opened.

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Emergency operation – opening

▷ Unlock the driver's door with the key at the door lock.
Open the door and switch the ignition on within 10 seconds in order to prevent the alarm system from being triggered.

Emergency operation – closing

▷ Quickly turn the key in the driver's door lock to the lock position **three times** in succession.
If there is a defect in the central locking system, all functioning elements of the central locking system will be locked.
The alarm system is switched on.
The infrared passenger compartment monitoring system is switched off.

The fault should be remedied immediately at an authorized Porsche dealer.

Indication by emergency flasher and alarm horn

If the **remote control** is used for unlocking or locking, a response is provided by the emergency flasher:

- Unlocking – single flash.
- Locking – double flash.
- Locking twice – continuous illumination for approx. 2 seconds and short alarm-horn signal.



Central locking switch

The central locking switch on the dashboard lets you lock and unlock both doors electrically.

Note

If the doors are locked with the key or remote control, they can not be opened by pressing the central locking switch.

Locking

▷ Press the rocker-switch symbol.
Indicator light lights up if ignition is on.

Unlocking

▷ Press the rocker-switch indicator light.
Indicator light goes out.

If the doors were locked with the central locking switch, they can be opened by pulling the inner door handle:

1. Pull inner door handle once to unlock door lock.

2. Pull inner door handle again to open door.

▷ ▷ ▷

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Automatic door locking

Your authorized Porsche dealer can program diverse types of automatic door locking in the control unit of the central locking system:

Type 1

Doors lock automatically when the ignition is switched on.

Type 2

Doors lock automatically when a speed of 5 - 10 km/h (3 - 6 mph) is exceeded.

Type 3

Doors lock automatically when the ignition is switched on. If doors are opened with the engine running, they lock again automatically when a speed of 5 - 10 km/h (3 - 6 mph) is exceeded.

Type 4

The doors do not lock automatically.

Note

Automatically locked doors can be unlocked with the central locking button or opened by pulling on the inside door handle twice.

⚠ Warning!

In an emergency situation where you need to exit the car through an automatically locked door, remember the following procedure to open the door.

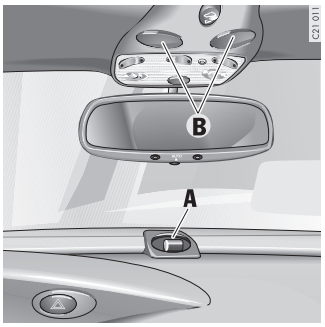
- ▷ Unlock the doors by pressing the central locking button **or**
- ▷ pull the inside door handle **twice** to open the door.

Fault indication

A double **horn signal** during locking indicates a defect in the central locking or alarm system.
Have the defect remedied at an authorized Porsche dealer.

Overload protection

If the central locking system is operated more than ten times within a minute, further operation is blocked for 30 seconds.



A - *Light-emitting diode for alarm system*
B - *Sensor module for infrared passenger compartment monitoring system*

Alarm System, Infrared Passenger Compartment Monitoring

The alarm system and infrared passenger compartment monitoring system are switched on when the doors are locked with the key or remote control.
See the chapter on "Central locking".

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Unlocking the vehicle by using the key in the door lock and opening the door may activate the alarm system within 10 seconds.

Function indication

If the alarm system is activated, light-emitting diode **A** on the dashboard flashes.

If, after locking, the light-emitting diode does not flash or, after ten seconds, it emits double flashes, then **not** all alarm contacts are closed. Additionally, a brief horn signal sounds.

When the doors are unlocked, the alarm system and infrared passenger compartment monitoring system are switched off and the light-emitting diode goes off.

When the alarm is armed, the following areas are monitored

- Doors
- Luggage compartment lid
- Engine compartment lid
- Radio
- Glove compartment
- Storage tray between the front seats
- Passenger compartment

If one of these alarm contacts is interrupted, the alarm horn sounds for approximately 3 minutes. Additionally, the emergency flasher and the passenger compartment light flash for approximately five minutes.
When the alarm is triggered, the light-emitting diode changes over to double flashes.

In order not to limit the action range of the infrared passenger compartment monitoring system:

▷ Move sun visors to one of the final positions.

▷ Do not fold the front seat backrests forward.

Deactivating the infrared passenger compartment monitoring system for one locking process

If a person or animal remains in the car while it is locked, the infrared passenger compartment monitoring system must be switched off.

▷ Quickly lock car **twice**.
The doors are locked but can be opened from the inside:

1. Pull inner door handle once to unlock door lock.

2. Pull inner door handle again to open door.

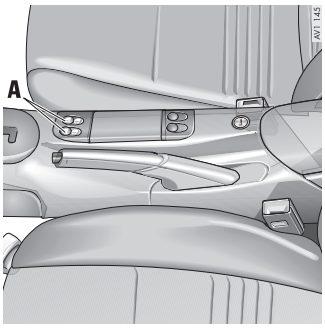
Note

Inform any person remaining in the car that the alarm system will be triggered if the door is opened.

Fault indication

A double **horn signal** during locking indicates a defect in the central locking or alarm system.
Have the defect remedied at an authorized Porsche dealer.

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Power Windows

Warning!

Risk of an accident.

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

Risk of injury when the door windows close. This applies especially if the windows are closed with the comfort function, because with this function the window goes up automatically.

▷ Make sure nobody can be injured when the windows close.

▷ Remove the ignition key to shut off power to the window switches when the vehicle is not attended by a responsible person.

Readiness for operation of power windows

- With engine running **or**
- in ignition key position **1 or**
- with door closed and ignition key withdrawn: only until first opening of the door.

Opening windows

Opening with the rocker switch in the center console

▷ Press rocker switch **A** until the window has reached the desired position.

▷ **One-touch operation:**
Press rocker switch **A** briefly.
Window moves to its final position.
Press again to stop the window in the desired position.

Comfort function when unlocking the vehicle

▷ Unlock car with the remote control.
Hold car key in door lock in the unlocking direction until the windows have reached the desired position.

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Closing windows



Closing with the rocker switch in the center console

▷ Press rocker switch **A** until the window has reached the desired position.

▷ **One-touch operation:**
Press rocker switch **A** briefly.
Window moves to its final position.
Press again to stop the window in the desired position.

Comfort function when locking the vehicle at the door lock

▷ Hold car key in door lock in the locking direction until the windows have reached the desired position.

Anti-crushing protection

If a side window is blocked during closing, it will stop and open again by about an inch.

Warning!

Risk of severe personal injuries.
If the rocker switch is pressed again within 10 seconds of the window being blocked, the window will close with its full closing force. Anti-crushing protection is disabled.

▷ Once the anti-crushing protection acts to stop the window and opens it slightly, do not press the rocker switch again within 10 seconds without checking to make sure that nothing is blocking the path of the window.
The window will close with full closing force.

One-touch operation is disabled for 10 seconds after blockage of a side window.

Automatic window lowering

See the chapter on "Doors".

The standby function of the power windows switches off after two hours

When the car is unlocked, the power windows can no longer be operated after two hours (to save the car battery).

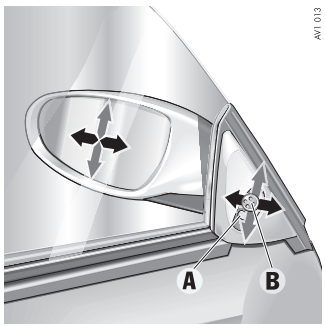
▷ Switch on the ignition or start the engine to reactivate the power windows.

Storing end position of the windows

If the battery is disconnected and reconnected, the windows will not be raised automatically when the door is closed.

1. Close the windows with the rocker switch **once**.
2. Press front half of rocker switch again to store the end position of the windows in the control unit.

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AVI 013

A - *Selector switch, driver's/passenger's side*
B - *Mirror adjustment*

Rear View Mirrors

Before driving the vehicle, adjust the outside and inside mirrors.
It is important for safe driving that you have good vision to the rear.

Warning!

Risk of an accident.

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

Door mirrors

The mirror housing is hinged and can be folded flat against the car to prevent damage in the tight parking areas.

Adjusting

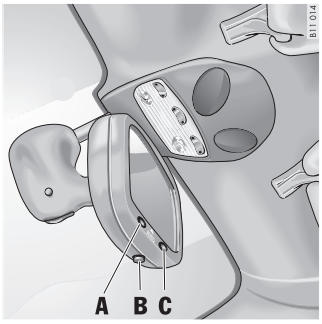
1. Select driver's side or passenger's side with rocker switch **A**.
2. Move the door mirror glasses in the appropriate direction using the control switch **B**.

If the electrical adjustment facility fails

▷ Adjust mirror by pressing on the mirror face.

Automatically swivelling down mirror glass on the passenger's side

See the chapter on "Parking aids" and "Seat memory".



B1I 0144

A - *Sensor*
B - *Switch for automatic anti-glare operation*
C - *Light-emitting diode*

Automatic Anti-Glare Interior Mirror and Driver's Door Mirror

Sensors on the front and rear sides of the interior mirror measure the incident light.
The mirrors automatically change to anti-glare position or revert to their normal state, depending on the light intensity.
When reverse gear is selected, automatic anti-glare operation is switched off.

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Note

The incident light in the area of the sensors must not be restricted, e.g. by stickers on the windscreen.

Switching off the automatic anti-glare operation

▷ Press switch **B**.
Light-emitting diode **C** goes out.

Switching on the automatic anti-glare operation

▷ Press switch **B**.
Light-emitting diode **C** lights up.

Warning!

**Risk of injury. Electrolyte fluid can emerge from a broken mirror glass.
This fluid irritates the skin and eyes.**

▷ If the electrolyte fluid should come into contact with the eyes or skin, immediately rinse it off with clean water.
See a doctor if necessary.

Risk of damage to the paintwork and plastic parts. Electrolyte fluid can be removed only while it is still wet.

▷ Clean the affected parts with water.



Rear Window Defogger, Door Mirror Heating

The mirror heater is ready for operation when the ignition is on.

Switching on

▷ Press the rocker-switch symbol.
Indicator light is lit.

After about 12 minutes, the heater switches off automatically.
The heater can be switched back on again by a further press on the switch.

Switching off

▷ Press the indicator light in the rocker switch.

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Seats Adjustment

⚠ Warning!

Safety belts only offer protection when the backrest is upright and the belts are properly positioned on the body.
Improperly positioned safety belts can cause serious personal injury in an accident.

▷ Do not operate the car with the driver or passenger backrests excessively reclined (see "Seat position").

The seat may move unexpectedly if you attempt to adjust while driving. This could cause sudden loss of control or personal injury.

▷ Do not adjust seats while the vehicle is in motion.
The backrest locks must be engaged at all times while the vehicle is in motion.

Seat position

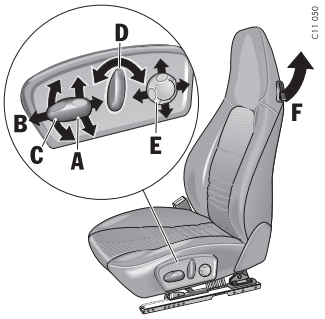
A correct sitting position is important for safe and fatigue-free driving.
We recommend the following procedure for adjusting the driver's seat to suit individual requirements:

1. Adjust the seat height to give yourself enough headroom and a good overview of the vehicle.

2. Adjust the seat until, with the accelerator pedal fully depressed, your leg is straight but your entire foot still rests on the accelerator pedal.

3. Grip the top half of the steering wheel.
Set the backrest angle and steering-wheel position so that your arms are almost outstretched. However, your shoulders must still rest on the backrest.

4. If necessary, correct the seat fore-and-aft adjustment.



Electrically adjustable seat

▷ Press the switch in the direction indicated by the arrows until the desired seat position is reached.

A - Seat height adjustment

B - Fore-and-aft adjustment

C - Seat angle adjustment

D - Backrest angle adjustment

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E - Lumbar support
(pelvis and spinal column support)

To permit a relaxed sitting posture, the backrest curvature is steplessly adjustable in vertical and horizontal directions for individual pelvis and spinal column support.

▷ Press the switch in the direction indicated by the arrows until the desired backrest curvature is reached.

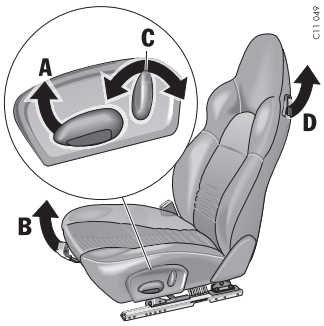
Seat backrest

Folding forward

▷ Pull up lever **F** in the side part of the backrest and fold the backrest forward.

Folding back

▷ Tilt back and engage the backrest so that it cannot tip forward when the car is braked.



Sports Seat*

A - Seat height adjustment

▷ Raise locking lever.

▷ Set the desired seat height by shifting your body weight.

▷ Release the lever.

B - Fore and aft

▷ Raise locking lever.
Move seat to desired position and release lever.
Ensure that the seat engages correctly.

C - Backrest angle

▷ Operate switch until the desired backrest angle is reached.

Seat backrest

Folding forward

▷ Pull up lever **D** in the side part of the backrest and fold the backrest forward.

Folding back

▷ Tilt back and engage the backrest so that it cannot tip forward when the car is braked.

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Seat Memory

Individual seat and door mirror settings can be stored and recalled for the driver's position.

Warning!

Risk of crushing.

▷ Due to risk of crushing from uncontrolled recalling the memory of a seat setting, do not leave children in the car unattended.

Operation with person buttons 1, 2

Storing seat position

1. Switch ignition on.

2. Set the desired seat and door-mirror positions.
   If you wish for the passenger's mirror to swivel down as a parking aid when reversing, reverse gear must be engaged when the seat position is stored.

3. Keep memory button **M** depressed and additionally press one of the person buttons **1 or 2**.
   The individual setting is now stored under the desired person button.

Recalling seat position

1. Switch the ignition on **or**
   open the driver's door.

2. Press person button until the seat has reached its final position.
   The mirror setting will be completed even if the person button is not kept depressed.

Note

Automatic seat adjustment can be interrupted immediately by releasing the button.

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Operating with the remote control of the vehicle key

Each remote control (up to four) can be assigned an individual seat and door mirror position.
The stored seat and door mirror position is set automatically when the vehicle is unlocked using the corresponding remote control.
Each key is identified with a different colour.

Storing seat position

1. Switch the ignition on with the desired vehicle key.

2. Set the desired seat and door-mirror positions.
   If you wish for the passenger's mirror to swivel down as a parking aid when reversing, reverse gear must be engaged when the seat position is stored.

3. Keep memory button **M** depressed and additionally press the button (beside the memory button).
   The individual setting is now assigned to this remote control and to the button.

Recalling seat position

▷ Unlock the locked vehicle or luggage compartment with the remote control.
The stored seat position is set automatically.

The seat position assigned to a remote control can also be recalled with the button if the corresponding key was used to unlock the vehicle or to switch on the ignition.

If no seat position was assigned to a remote control, the button will not work.

Note

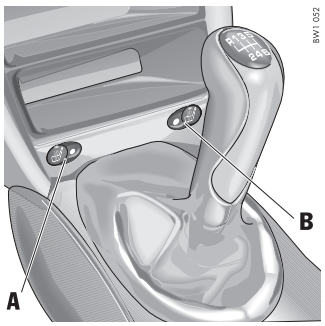
Automatic seat adjustment can be interrupted immediately by pressing the central locking button or any memory or seat adjustment button.

Clearing the stored seat position

1. Switch the ignition on with the desired vehicle key.

2. Simultaneously press and hold the button and person button **2** for at least 5 seconds.

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BW1 052

A - *Seat heating, left*
B - *Seat heating, right*

Heated seats

The seat heating with two heating stages is ready for operation when the ignition is on.

Switching on

High heating power

▷ Press the rocker-switch symbol.
Indicator light glows red.

Low heating power

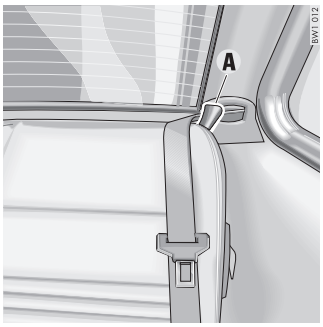
▷ Press the rocker-switch symbol again.
Indicator light glows orange.

The heating power changes whenever the rocker switch is operated.

Switching off

▷ Press the indicator light in the rocker switch.

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Rear Seat Backrest

Extra storage space is gained by folding the rear seat backrest forward.

Folding backrest forward

▷ Pull lever **A** forward and fold the backrest down.

Folding backrest back

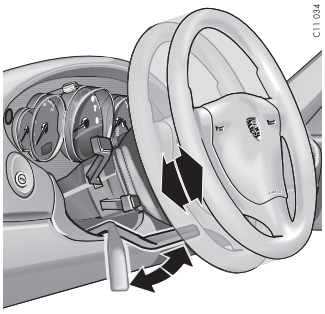
▷ Tilt the backrest back until it clicks into place. When doing this, pay attention to the seat belt guide (figure).

Steering Wheel Adjustment

⚠ Warning!

Risk of accident.
The steering wheel may move further than desired if you attempt to adjust it while driving.
You may lose control of the vehicle.

▷ Do not adjust the steering wheel while driving.



Longitudinal adjustment

1. Push locking lever downwards.
2. Adjust steering wheel to fit the chosen backrest angle and seat position by moving the steering wheel longitudinally.
3. **Swivel locking lever back until you feel it engage.**
   If necessary, move steering wheel slightly longitudinally, to ensure engagement.

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Safety Belts

Warning!

Always make sure your and your passengers' safety belts are properly fastened while the vehicle is in motion.
Failure to follow safety belt warnings may result in serious personal injury.

- For your and your passengers' protection, use safety belts at all times while the vehicle is in motion.
- Use appropriate child restraint systems for all small children.

Proper wearing of safety belts

- Safety belts must be positioned on the body as to restrain the upper body and lap from sliding forward. Improperly positioned safety belts can cause serious personal injury in case of an accident.
- The shoulder belt should always rest on your upper body. The shoulder belt should never be worn behind your back or under your arm.
- For maximum effectiveness, the lap belt should be worn low across the hips.
- Pregnant women should position the belt as low as possible across the pelvis. Make sure it is not pressing against the abdomen.
- Belts should not be worn twisted.
- Do not wear belts over rigid or breakable objects in or on your clothing, such as eye glasses, pens, keys, etc. as these may cause injury.
- Several layers of heavy clothing may interfere with proper positioning of belts.
- Belts must not rub against sharp objects or damage may occur to the belt.
- Two occupants should never share the same belt at the same time.

Care and maintenance

- Keep belt buckles free of any obstruction that may prevent a secure locking.
- Belts that have been subjected to excessive stretch forces in an accident must be inspected or replaced to ensure their continued effectiveness in restraining you.
  The same applies to belt tensioner systems which have been triggered.
  In addition, the anchor points of the belts should be checked.
- If safety belts do not work properly, see your authorized Porsche dealer immediately.
- If the belts show damage to webbing, bindings, buckles or retractors, they should be replaced to ensure safe operation.
- Do not modify or disassemble the safety belts in your vehicle.
- The belts must be kept clean or the retractors may not work properly (see also "Car care instructions").
- Never bleach or dye safety belts.
- Do not allow safety belts to retract until they are completely dry after cleaning or this may cause damage to the belt.

Belt tensioner

Depending on the force of a collision, fastened front seat belts are tightened in an accident.

The belt tensioners are triggered in:

- Front and rear impacts

The belt tensioners are not triggered in:

- Side impacts
- Vehicle overturning

Note

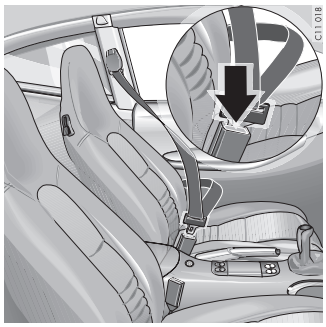
The belt tensioner system can be triggered only once; the system must be replaced afterward.
Work may be performed on the belt-tensioner system only by an authorized Porsche dealer.
Smoke is released when the belt tensioners are triggered. This does not indicate a fire in the vehicle.

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Safety Belt Warning System

An audio-visual warning system is interconnected with the driver's safety belt.

Every time the ignition is turned on, the gong will sound for about 6 seconds to remind the driver and passenger to buckle up.
The safety belt warning lights in the instrument panel and on-board computer will go off as soon as the driver has buckled up.



Inertia reel retractor

The combination lap/shoulder belt with inertia reel locking mechanism adjusts automatically to your size and movements as long as the pull on the belt is slow.

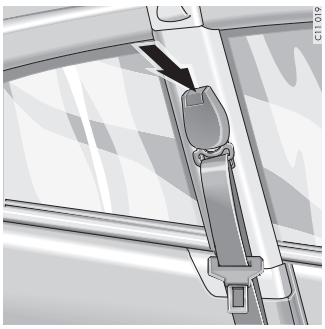
Rapid deceleration during hard braking or a collision locks the belt. The belt will also lock when you drive up or down a steep hill or in a sharp curve, otherwise, the shoulder belt will not inhibit your upper body movement.

- Assume a comfortable sitting position.
  The shoulder belt should always rest on your upper body. The shoulder belt should never be worn behind your back or under your arm.
- To fasten, grasp belt and pull the belt in a continuous slow motion across your chest and lap.
- Insert belt tongue into buckle on inboard side of seat. Push down until it securely locks with an audible click. Pull the belt to check.
- Pull shoulder section to make sure belt fits snugly across the pelvis.
- Belts should fit snugly across the pelvis and chest. Make sure there is no slack in the belt.
- To unfasten belt, push in release button (arrow) on buckle. Belt tongue will spring out of buckle.
- To release a latched belt, lean back to take the body pressure off the belt.
- To store lap/shoulder belt, allow the belt to retract as you guide the latch to its stowed position.

Please note chapter "Automatic locking retractor".

▷ ▷ ▷

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Safety belt height adjustment

Adjust the height of the safety belt so that it runs across the middle of the shoulder, not against the neck.

Adjusting belt height

- ▷ Up – push belt deflector.
- ▷ Down – press button (arrow) and move belt deflector.

Automatic locking retractor

The safety belts for the passenger and rear seats are equipped with an automatic locking retractor for securing the child restraint system. When activated, this retractor allows you to securely fasten the child restraint system in place so that inadvertent movements will not occur.

Activating the automatic locking retractor

1. Pull the safety belt retractor **completely** out. At this point the locking mechanism is activated.
2. Insert the safety belt tongue into the buckle and make certain that it is properly latched.
3. Allow the safety belt to retract until it is tight on the child restraint system. You may further tighten the belt by pulling on it to allow more of it to retract.

Releasing the safety belt

1. Unbuckle the safety belt latch.
2. Then make certain that the belt has fully retracted.
   At this point the automatic locking feature will be disengaged.

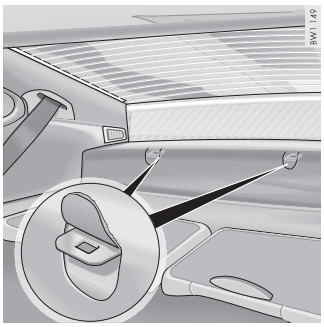
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Child Restraint Anchorages

Please note chapter "Automatic locking retractor".

If your child restraint seat or seats require the use of a tether strap, you will want to use the anchor points provided behind the rear seat backrests under the carpet.
To ensure proper installation, see your authorized Porsche dealer.

The tether strap can be moved to the other anchor point if required.



Warning!

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adults safety belts or harnesses. Such use could result in serious personal injury or death.

▷ Do not misuse the child restraint anchorages. They are not designed to withstand loads imposed by adults.

▷ ▷ ▷

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Child Restraint Systems

Porsche recommends that all infants and children be restrained in child restraint systems at all times while the vehicle is in motion in accordance with applicable laws.

The use of infant or child restraints is required by law in all 50 states and the Canadian provinces.
The child restraint system should be one that complies with U.S. Federal/Canadian Motor Vehicle Safety Standards 213 and should be secured by a lap belt or lap belt portion of a lap-shoulder belt.
A statement by the seat manufacturer of compliance with this standard can be found on the instruction label on the restraint and in the instruction manual provided with the restraint.

⚠ Danger!

Risk of serious personal injury or death to the child.

▷ Follow all child restraint instructions and warnings in this manual.

- When using an infant or child restraint system, be sure to follow all manufacturer's instructions on installation and use.
- Infants and small children should never be held on the lap, nor should they share a safety belt with another occupant while the vehicle is in motion.
- Children too big for child restraint systems should use regular safety belts. A shoulder belt can be used providing it does not cross the face or the neck of the child.
- For maximum safety and protection, we recommend that small children travel in the rear seats.

The airbag deactivation device installation requires special programming available only from your authorized Porsche dealer.

Your authorized Porsche dealer will be glad to advise you about the installation possibility for a Porsche child restraint system which allows deactivation of the passenger's airbags.

⚠ Danger!

The use of a child restraint system in the passenger seat without airbag deactivation can result in serious personal injury or death to the child from an airbag deployment.
To reduce risk of injury from an inflating airbag in an accident, Porsche strongly recommends:

▷ Do not use a child restraint system in the passenger seat unless the passenger airbags are deactivated.

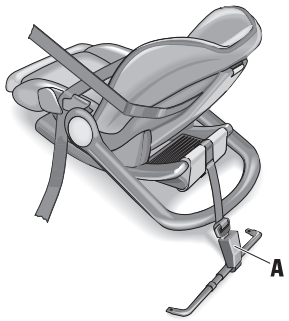
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Rearward facing child restraint system:

- ▷ Use only in the passenger seat.
- ▷ Use in passenger seat only with the Porsche child restraint system with airbag deactivation capability.
  When using the Porsche child restraint system you **must** ensure that the passenger airbags are deactivated.

Forward facing child restraint system:

- ▷ Whenever possible use in the rear seat.
- ▷ **If you must place a forward facing child restraint system in the passenger seat, the passenger airbags must be deactivated.**



AVI 144

Example: Rearward facing child restraint system

In order to deactivate the passenger's airbags, the belt tongue of the child's seat must always be inserted in the buckle "A" in front of the passenger seat.

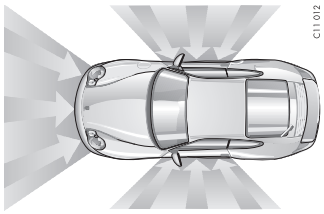
When the ignition is switched on, deactivation of the airbags is indicated by the airbag warning light flashing for 60 seconds.

⚠ Danger!

If the light does not flash, the airbags are not deactivated and a child restraint system must not be installed.

- ▷ Have the fault remedied immediately by an authorized Porsche dealer.

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Airbag Systems

The Airbags in combination with the safety belts makes up a safety system which offers the driver and the passenger the greatest known protection from injuries in case of accident.

Even if your vehicle is equipped with airbags, **the safety belts must be worn at all times**, because the front airbag system is only actuated by frontal collisions with an impact of sufficient severity.
See figure for ranges of effectiveness.

Below the actuation threshold of the airbag system, and during types of collisions which do not cause the actuation of the system, the safety belts provide the primary protection to the occupants when correctly worn.
Therefore, all persons within the vehicle must always wear safety belts (in many states, state law requires the use of safety belts). See also the chapter "Safety Belts".

The front airbags are located behind the padded steering wheel panel on the driver's side and on the passenger's side in the dashboard.
The side airbags (POSIP - **Po**rsche **S**ide **I**mpact **P**rotection System) are installed in the doors under the door trim panel.

Function

The front airbags are triggered during a frontal collision of sufficient force.
In the event of a side impact of corresponding force, the side airbag on the impact side is triggered.

The inflation process generates the amount of gas required to fill the airbags at the necessary pressure in fractions of a second.

Airbags protect the face and upper body, whilst simultaneously damping the motion of the driver and passenger in the impact direction in the event of a frontal impact or side impact.

⚠ Danger!

To provide optimal occupant protection, airbags must inflate at very high speed.
If you are not wearing your safety belt or are too close to the airbag when its deployed, inflating airbags can result in serious injury or death.

- ▷ Make sure there are no people, animals or objects between the driver or passenger and the area into which the airbag inflates.
- ▷ Sit back as far from the dashboard or steering wheel as is practical, while still maintaining full vehicle control.
- ▷ Do not lean against the inside of the doors.
- ▷ Always hold the steering wheel by the outer rim.
  Never rest your hands on the airbag panel.
- ▷ Never transport heavy objects on or in front of the passenger seat.
- ▷ Always keep the lid of the door storage compartment closed. Objects must not protrude out of the door storage compartment.
- ▷ Give your passenger all of the information in this chapter.
- ▷ No changes must be made to the wiring or components of the airbag system.

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▷ Do not add any additional coverings or stickers to the steering wheel or in the area of the passenger airbag and side airbags. Doing so may adversely affect the functioning of the airbag system or cause harm to the occupants if the airbag system should deploy.

▷ Do not undertake any wiring for electrical accessory equipment in the vicinity of the airbag wiring harnesses. Doing so may disable the airbag system or cause inflation.

▷ If the warning light comes on, the airbag system should be repaired immediately by your authorized Porsche dealer.

Note

Airbag components (e.g. steering wheel, door trim) may be disassembled only by an authorized Porsche dealer.

When disposing of a used airbag unit, our safety instructions must be followed. These instructions can be obtained at any authorized Porsche dealer.

Warning light

The central triggering unit monitors the operational readiness of the airbag system and the warning light.

Any malfunctions that may occur will be indicated by the warning lights in the instrument panel and on-board computer.

▷ **In the following cases you should immediately consult an authorized Porsche dealer in order to assure the airbag system is functioning properly:**

- Illumination of the airbag warning light during travel or repeated illumination longer than 5 seconds after the ignition circuit is turned on.
- Illumination fails to light up during ignition circuit activation.

If the airbags on the passenger's side are switched off by the **child restraint system**, or if an installed child restraint system is detected when the ignition is switched on, the warning light **flashes** for 60 seconds when the ignition is on.

⚠ Danger!

If the light does not flash, the airbags are not deactivated and a child restraint system must not be installed.

▷ Have the fault remedied immediately by an authorized Porsche dealer.

Airbag maintenance

In order to ensure long-term functioning, the airbag system must be inspected by an authorized Porsche dealer after 4, 8 and 10 years from the date of manufacture shown on the safety compliance sticker, and every 2 years thereafter.

Important information

If you sell your Porsche, notify the purchaser that the vehicle is equipped with airbags, and refer them to the chapter, "Airbag Systems", in the owner's manual (safety and disposal rules).

Further information on the airbag system can be found on stickers at the sun visors, as well as on all airbag components.

For special recommendations on the use of child restraints, please refer to the chapter on "Child Restraint Systems".

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Parking Aids

Parking assistant (ParkAssistent)

When the driver backs up, the parking assistant system indicates the distance between the car and an obstacle behind it, by means of signal tones.

⚠ Warning!

Risk of accident.
Despite use of the parking assistant system, the driver is still responsible for taking due care and assessing obstacles when backing up.

▷ Make sure that no persons, animals or obstacles are within the manoeuvring area.

The parking assistant system is activated automatically when reverse gear is selected and the ignition is on.

Note

Be aware that the parking assistant system is **not** switched on if the car rolls backward without reverse gear being engaged.

C13 083



Ultrasound sensors

Sensors

Four ultrasound sensors in the rear bumper measure the distance to the closest obstacle.

- Range middle sensors around 60 in./150 cm
- Range outer sensors around 24 in./60 cm

Obstacles cannot be detected in the "blind" sensor area (e.g. near the ground).

Note

The sensors must always be kept free of dust, ice and snow in order to ensure that they are fully functional.

⚠ Caution!

To avoid damaging the sensors:

▷ Maintain sufficient distance when cleaning with steam-jet units.

Signal tones/function

When reverse gear is selected, the parking assistant confirms that it is switched on by issuing a **short signal tone**.
A detected obstacle is signalled by an **intermittent tone**. The intervals decrease as the obstacle is approached.
A **continuous tone** sounds when the distance becomes less than one foot. This continuous tone can stop if the obstacle is approached closer than one foot.
The radio volume should not be so loud as to drown out the signal tones.

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Limits of ultrasonic measurement

The parking assistant system cannot detect:

- sound-absorbing obstacles (e.g. powder snow),
- sound-reflecting obstacles (e.g. glass surfaces, flat painted surfaces)
- and very thin obstacles.
- Other ultrasound sources (e.g. pneumatic brakes of other vehicles, jackhammers) can interfere with detection of obstacles.

Fault indication

The parking assistant system indicates a fault in two ways:

- After reverse gear has been selected, the short signal tone is followed by a continuous tone of the **same** pitch:
  This indicates that sensors are soiled or covered with ice.
- After reverse gear has been selected, the short signal tone is followed by a continuous tone with a much **lower** pitch:
  This indicates a general system fault. Please have the fault remedied at an authorized Porsche dealer.



AW1 028

A - *Control switch for door mirror adjustment*

Swivelling down mirror glass on the passenger's side

On vehicles with seat memory you can activate an additional parking aid.
Activating see "Seat Memory".

- When reverse gear is engaged, the mirror glass on the passenger's side swivels down slightly to show the curb area.
- The mirror glass returns to its initial position when the car is shifted out of reverse gear.

Moving mirror glass to its initial position with reverse gear engaged

▷ Briefly move control switch **A** in any direction.

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Retractable Rear Spoiler

The rear spoiler reduces air resistance and, particularly at high speeds, reduces rear axle lift.

Automatic control

The rear spoiler automatically extends at approximately 75mph/120 km/h and retracts at approximately 37 mph/60 km/h.

Warning light

The warning light in the instrument panel lights for a lamp check when ignition is switched on.

The warning lights in the instrument panel and on-board computer go on if the rear spoiler does not extend at more than 75 mph/120 km/h or if the end position is not reached.

If the automatic control fails:

▷ Extend the rear spoiler manually by pressing the spoiler rocker switch.

⚠ Danger!

Risk of an accident.
The spoiler affects movement of air around the vehicle and is used to maintain aerodynamic stability as vehicle speeds increase.
If the spoiler does not extend automatically due to mechanical malfunction, driving stability will be adversely affected by increased rear axle lift, which could lead to loss of control.

▷ Adapt your driving style and reduce speed to the changed aerodynamic conditions.

▷ Have the fault remedied at an authorized Porsche dealer.

▷ Do not exceed the posted legal speed limit.

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Manual control

When the ignition is on, the spoiler can be extended and retracted manually using the rocker switch.

Warning!

Serious injuries may occur from crushing and pinching at all moving parts in the area of the retractable spoiler.

▷ Ensure that no one can be injured and no objects can be jammed by the extension or retraction of the rear spoiler.

Extension

▷ Press left half of rocker switch briefly.
The spoiler extends to its final position.

Retraction

▷ Press and hold right half of rocker switch until the rear spoiler has reached its final position.

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Clutch Pedal

The clutch pedal must be depressed fully before the starter will engage.

⚠ Warning!

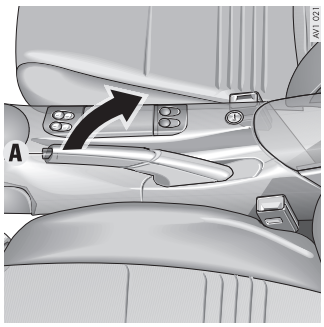
Risk of an accident.

- ▷ Always check the movement of the clutch pedal before driving and make sure that it is not obstructed by a floor mat or any other object.
- ▷ Secure the floor mat to prevent it from sliding into positions that could interfere with the safe operation of your vehicle.
  Your Porsche dealer will be glad to offer you floor mats of the correct size including a securing possibility.

To avoid damage to the clutch and transmission:

- ▷ Always depress the clutch pedal fully when changing gears.
- ▷ Do not hold the car on a steep grade with the clutch pedal partially depressed.

Should the free travel of the clutch pedal suddenly become bigger, it could mean a malfunction of the clutch. See your Porsche dealer for correction.



Parking Brake

Parking brake force is mechanically transferred to the rear wheels by means of cables.

- ▷ Use the parking brake only after the vehicle has come to a full stop.

Setting the parking brake

- ▷ Pull the lever **all the way up** (see arrow).
  With the ignition on, the parking brake warning lights in the instrument panel and on-board computer will come on if the lever is even slightly raised. A firm pull upward is required to properly engage the parking brake.
  If the brake is not fully set, the vehicle may roll without control.
- ▷ Move the selector lever to "P" (Tiptronic) or move the gearshift lever to reverse or first gear (Manual transmission).
- ▷ Before exiting the vehicle, make sure that the parking brake is fully set and the vehicle is not moving at all.

Releasing the parking brake

- ▷ Pull the lever slightly up as you depress the release button **A**, and then push the lever all the way down.

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Parking brake warning light USA

Parking brake warning light Canada

The warning lights will go out after the parking brake is fully released.
The warning lights are not an indicator that the parking brake is fully set; it is only intended to be a warning to release the parking brake before driving the car.

Caution!

A partially engaged brake will overheat the rear brakes, reduce their effectiveness and cause excessive wear.

- ▷ Release the parking brake fully.

- ▷ When parking your car, always set the parking brake by pulling all the way up on the lever.
- ▷ Move the selector lever to "P" (Tiptronic) or move the gearshift lever to reverse or first gear (Manual transmission).
- ▷ On hills also turn the front wheels towards the curb.

Brakes

- ▷ Make it a habit to check the operation of your brakes before driving.

Keep in mind that the braking distance increases very rapidly as the speed increases. At 60 mph or 100 km/h, for example, it is not twice but four times longer than 30 mph or 50 km/h. Tire traction is also less effective when the roads are wet or slippery.

- ▷ Therefore, always maintain a safe distance from the car in front of you.

Note

Even though the brake discs consist of alloyed grey cast iron, they will unavoidably start to corrode if your car is parked for an extended period. The brakes will tend to "rub" as the result.
The nature, extent and effects of corrosion depend on the amount of time the vehicle was parked, whether granular or liquid road salt was spread and whether grease-dissolving agents were used in car washes.
If the braking comfort is noticeably impaired, we recommend having the brake system checked by experts at an authorized Porsche dealer.

Brake system function

Your Porsche is equipped with a power assisted hydraulic dual circuit brake system with disc brakes at the front and rear.
Both circuits function independently. One brake circuit operates the front and the other operates the rear.

If one brake circuit has failed, the other will still operate. However, you will notice an increased pedal travel when you apply the brakes.
Failure of one brake circuit will cause the stopping distance to increase.

Warning!

Risk of an accident.
In the unlikely event of hydraulic failure of one brake circuit:

- ▷ Push the brake pedal down firmly and hold it in that position.
  A mechanical linkage activates the second circuit, and you will be able to bring the vehicle to a stop.
- ▷ After bringing your vehicle to a complete stop, avoid driving the vehicle and instead have it towed to the nearest authorized Porsche dealer for repair.

▷ ▷ ▷

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Brake warning light USA

Brake warning light Canada

If the warning lights in the instrument panel and on-board computer go on while driving, the brake fluid level may be too low, or (if the brake pedal travel has increased) one of the two brake circuits may have failed.

A greater braking pressure will be required, stopping distances will be longer and the braking behavior will change, particularly in curves.

With correctly adjusted brakes, and a correctly working brake system, the pedal travel to the point of brake actuation should be 1-3/16 in. to 1-9/16 in. or 30 to 40 mm.
Whenever the brake pedal travel exceeds this distance, have the brake system checked.

Brake pedal

Warning!

Risk of an accident.
Any obstruction of the brake pedal could increase the stopping distance.

- ▷ Always check the movement of the brake pedal before driving and make sure that it is not obstructed by a floor mat or any other object.
- ▷ Secure the floor mat to prevent it from sliding into positions that could interfere with the safe operation of your vehicle.
  Your Porsche dealer will be glad to offer you floor mats of the correct size including a securing possibility.

Note

In case one of the two brake circuits fails, increased pedal travel is required to bring your vehicle to a full stop.

Warning!

To avoid overheating and premature wear of the brakes:

- ▷ Before descending a steep grade, reduce speed and shift the transmission into a lower gear or driving position to control speed.
- ▷ Do not "ride the brakes" by resting your foot on the pedal when not intending to apply brake pressure.
- ▷ Do not hold the pedal down too long or too often.
  This could cause the brakes to get hot and not function properly.

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Brake booster

The brake booster assists braking only when the engine is running.

When the car is moving while the engine is not running, or if the brake booster is defective, more pressure on the brake pedal is required to bring the car to a stop.

Moisture or road salt on brakes affects braking.
When the vehicle is driven on salted roads for extended periods, the brakes should be washed down thoroughly about every 2 weeks. An automatic carwash facility cannot do this job properly.
Brakes will dry after a few cautious brake applications.

Warning!

Driving through water may reduce traction. Moisture on brakes from road water, car wash, or coating of road salt may affect braking efficiency.

▷ Cautiously apply brakes to test brakes after being exposed.

Brake wear

Your car has excellent brakes, but they are still subject to wear. The rate at which they wear depends on how the brakes are used.

▷ Have the brake system inspected at the intervals recommended in your Maintenance Booklet.



Warning light USA



Warning light Canada

If the lights in the instrument panel and on-board computer stay on when the engine is running or come on while driving, the brake pads are worn, excessively.

▷ Do not continue to operate the vehicle.
Have your authorized Porsche dealer inspect or replace the brake pads.

Brake pads

Wear on the brake pads and brake discs depends to a great extent on the driving style and the conditions of use and therefore cannot be expressed in actual miles on the road.

The high-performance brake system is designed for optimal braking effect at all speeds and temperatures.
Certain speeds, braking forces and ambient conditions (such as temperature and humidity) therefore might cause brake noises.

New brake pads or linings

New brake pads and brake discs have to be "broken in", and therefore only attain optimal friction when the car has covered several hundred miles or km.
The slightly reduced braking ability must be compensated for by pressing the brake pedal harder. This also applies whenever the brake pads and brake discs are replaced.

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ABS Brake System (Antilock Brake System)

The ABS system represents a major contribution to the enhancement of active safety in your vehicle. This system prevents the wheels from locking in a panic stop on almost all road surfaces.

With the ABS system in your vehicle, the following areas are enhanced:

Steering, vehicle remains steerable under all braking forces when ABS is engaged.

Good directional control, no swerving caused by locking of wheels under braking conditions.

Shorter stopping distance, stopping distances are usually reduced because controlled braking is maximized.

Prevention of wheel lock up, no brake–induced sliding and thus no localized tire wear from emergency braking.

The crucial advantage of the ABS system over a conventional brake system is in the area of maintaining directional control and maneuverability of the car in emergency situations during normal driving, including panic braking in turns.

⚠ Warning!

The increased control that is provided should not induce you to take greater risks with your safety. The limits dictated by the laws of physics cannot be overcome, even with ABS.
The risk of accidents due to inappropriate speed cannot be reduced, even by the ABS. The driver bears the responsibility for all driving maneuvers.

- ▷ Adapt your driving style to the prevailing road and weather conditions.
- ▷ Obey all traffic laws.

Other vehicles not equipped with the ABS system may not be able to maintain control, especially on wet or poor road surfaces and thus may be more likely to impact you from behind.

- ▷ To minimize that risk, use your ABS system to increase your ability to maneuver to avoid dangerous situations and not merely to try to stop in the shortest distance possible.

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Operation of the ABS system

A wheel speed sensor is mounted to each of the four wheels. If wheel lock-up of either of the front wheels or the rear wheels is sensed during braking, the brake pressure is adjusted automatically until the wheel no longer slips. The brake pressure is regulated for each front wheel individually and for both of the rear wheels together.

On a road surface which is slippery on only one side, the rear wheel which is braking on the slippery surface determines the brake pressure which will be applied equally to both rear wheels. This ensures that directional stability is maintained. However, if braking forces approach the wheel lock-up point for all wheels (panic braking) the ABS system will intervene to provide a rapid rythmic braking.
The proper operation of ABS is perceived by the driver as a pulsating brake pedal in conjunction with audible noise and perhaps some vibration.

▷ If you experience these sensations while driving or a road surface with questionable traction, reduce vehicle speed appropriate for the prevailing road conditions.

The functional readiness of all the main electrical components of the ABS is checked by an electronic monitoring system both before and while you drive.

Warning light USA

Warning light Canada

When the ignition is switched on, the ABS warning light will light up while the system is electronically interrogated and goes out when the engine is started if the check is not yet complete.
If the ABS warning lamp fails to go out, this indicates that ABS has been deactivated due to a fault. If the warning lights in the instrument panel and on-board computer light up while you are driving, this indicates that a fault has occurred. In both cases, normal braking, as in vehicles without ABS, is still retained.

The ABS system should, however, be examined at an authorized Porsche dealer immediately to prevent the occurrence of further faults.

▷ If the ABS system becomes inoperative, take your vehicle to your authorized Porsche dealer immediately.

⚠ Warning!

The control unit of the ABS brake system is set for standard tire size. If non-standard tires are installed, the control unit may misinterpret the speed of the vehicle, because of the variant data it receives from the sensors on the axles.

▷ Use only tire makes and types tested by Porsche.

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Porsche Stability Management (PSM)

PSM is an active control system for stabilizing the vehicle during extreme driving maneuvers.

⚠ Warning!

The increased control that is provided should not induce you to take greater risks with your safety. The limits dictated by the laws of physics cannot be overcome, even with PSM.
The risk of accidents due to inappropriate speed cannot be reduced, even by PSM.
The driver bears the responsibility for all driving maneuvers.

▷ Adapt your driving style to the prevailing road and weather conditions.

▷ Obey all traffic laws.

Advantages of PSM

- Superior traction and lane-holding ability in all driving situations – even on road surfaces with varying friction.
- PSM actively stabilizes the vehicle during dynamic driving manoeuvres (e.g. rapid steering movements, during lane changes or on alternating curves).
- Improved braking stability in curves and on different or varying road surfaces.

Readiness for operation

The PSM is engaged automatically every time you start the engine.

Function

Sensors at the wheels, brakes, steering system and engine continuously measure:

- Driving speed
- Direction of travel
- Lateral acceleration
- Rate of turn about the vehicle's vertical axis

The PSM uses these values to determine the direction of travel desired by the driver.
PSM intervenes and corrects the course if the vehicle's actual direction deviates from the desired course (steering-wheel position). It brakes individual wheels as needed. If necessary, the PSM additionally influences the engine power or the gear-changing characteristic of the Tiptronic in order to stabilize the vehicle.

The events below inform the driver of PSM control operations and warn him to adapt his driving style to the road conditions:

- The information light in the instrument panel lights up.
- Hydraulic noises can be heard.
- The vehicle decelerates and steering-wheel forces are altered as the PSM controls the brakes.
- Reduced engine power.
- The brake pedal pulsates and its position is changed during braking.
  However, it is possible at any time to achieve full vehicle deceleration by increasing the foot pressure slightly on the brake pedal.

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Switching off PSM

▷ Press the “PSM OFF” logo of the rocker switch.
PSM is switched off after a brief delay.
With PSM switched off, the PSM OFF warning light in the instrument panel **and** the rocker switch indicator light are lit.

During braking, the vehicle is stabilized even when PSM is switched off.

One-sided spinning of the wheels is prevented, even with PSM switched off.

PSM should always be switched on during “normal” driving.
However, it can be of advantage to switch off PSM temporarily in exceptional situations:

- On a loose surface or in deep snow
- When “rocking the vehicle free”
- When using snow chains.

Tiptronic vehicles: When the PSM is switched off the slip monitoring function of the Tiptronic is also deactivated.

Switching PSM back on

▷ Press the indicator light in the rocker switch. PSM is switched on after a brief delay.

Information light

- The PSM information light in the instrument panel lights up for a lamp check when the ignition is switched on.
- The light indicates PSM intervention even when PSM is switched off (brake regulation in the event of one-sided wheel spin).

Warning light

- The warning light in the instrument panel lights up in combination with the indicator light in the rocker switch for a lamp check when the ignition is switched on.
- In combination with the indicator light in the rocker switch, the light indicates that PSM is switched off.
- The lights in the instrument panel and in the on-board computer indicate a defect.
  PSM is out of order.
  The fault should be remedied immediately at an authorized Porsche dealer.

Towing

Refer to the chapter “Towing”.

Handbrake tests

Handbrake tests on the roller test stand must be performed only with the ignition switched off.

Refer to the chapter “Four-wheel drive”.

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Four-Wheel Drive

With the four-wheel drive of the 911 Turbo, the engine power is variably distributed to the front and rear wheels.
Power distribution and wheel speed compensation between the front and rear axles is realised with a viscous multiple-disc clutch.

Distribution of the engine power is dependent upon the wheel speed difference between the two axles.
The viscous multiple-disc clutch always delivers sufficient drive power to the front wheels (approx. 5% to 40%) to ensure optimum traction even on a poor road surface.

In combination with the Porsche Stability Management (PSM), four-wheel drive ensures optimum handling and increased driving stability.

⚠ Warning!

The increased control that is provided should not induce you to take greater risks with your safety. The limits dictated by the laws of physics cannot be overcome, even with four-wheel drive.
The risk of accidents due to inappropriate speed cannot be reduced, even by four-wheel drive.
The driver bears the responsibility for all driving maneuvers.

- ▷ Adapt your driving style to the prevailing road and weather conditions.
- ▷ Obey all traffic laws.

Dynamometer testing procedure

Some U.S. states and Canadian provinces conduct emissions inspection/maintenance testing involving the use of two-wheel dynamometer.
A two-wheeled dynamometer is a treadmill type device upon which a single axle of the car, the driving axle of the vehicle, rotates to simulate vehicle operation on the road while the vehicle remains stationary.

Your 911 Turbo has a full-time four-wheel drive system which cannot be disabled. Severe damage to the powertrain can result if tested on a two-wheel dynamometer.

⚠ Warning!

To avoid severe powertrain damage and a possible unexpected movement of the vehicle.

- ▷ Your 911 Turbo vehicle must never be tested on a two-wheel dynamometer.
- ▷ Advise the emission station of this warning before testing the vehicle.

Power measurement

Power measurements on dynamometers are not approved by Porsche.

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Brake tests

Brake tests must be performed only on plate-type test stands or roller test stands.

The following limit values must not be exceeded on roller test stands:

- Testing speed 4.7 mph (7.5 km/h)
- Test duration 20 seconds

Handbrake tests

Handbrake tests on the roller test stand must be performed only with the ignition switched off.

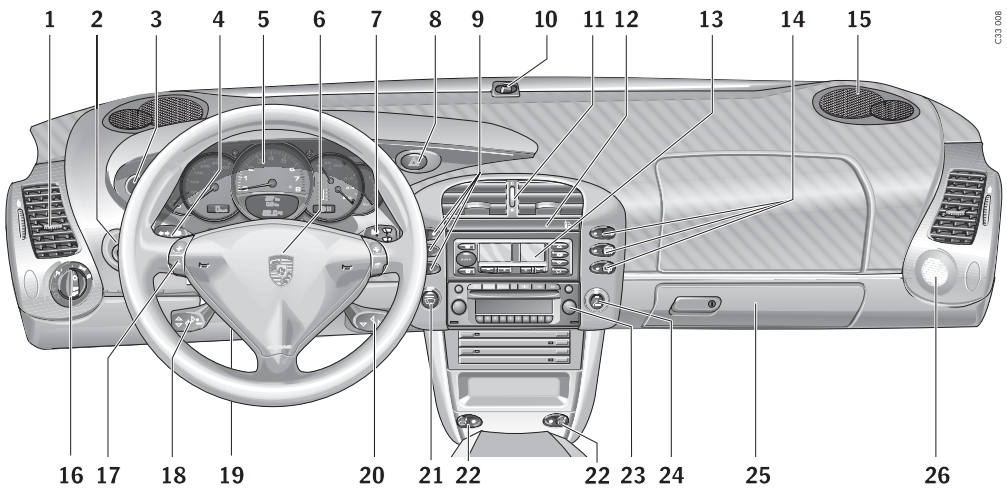
Balancing wheels on the vehicle

During finish balancing of the wheels, the vehicle must be hoisted and the wheels able to rotate freely.

Towing

Refer to the chapter “Towing”.

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Operation, Instruments

1 Side vent

2 Ignition/starter switch with steering lock

3 Space for hands-free microphone for telephone

4 Turn signals/ headlight dimmer/flasher lever

5 Instrument panel

6 Horn

7 Windshield wiper/washer lever

8 Emergency flasher switch

9 Rocker switches for Porsche Stability Management (PSM), rear spoiler, footwell light

10 Readiness display for alarm system

11 Central vent

12 Cupholder

13 Control panel for heating, ventilation, air conditioning

14 Rocker switches for central locking, rear window and door mirror heating, rear window wiper

15 Speaker

16 Light switch

17 Toggle switches for Tiptronic

18 Operating lever for on-board computer

19 Locking lever for steering-wheel adjustment

20 Operating lever for automatic speed control

21 Wipe interval control/ rain-sensor sensitivity control

22 Rocker switches for seat heating

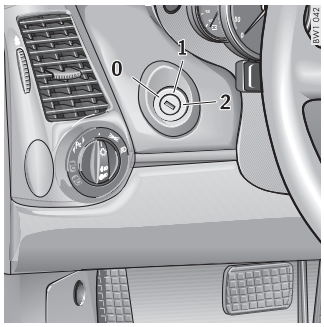
23 Radio

24 Cigarette lighter

25 Glove compartment

26 Interior temperature sensor

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Ignition/Starter Switch with anti-theft Steering Lock

For your safety, fasten safety belts.

See also the chapter on "Immobilizer".

Before starting the engine

▷ Apply the handbrake.

▷ **Manual transmission:**
Move the gearshift lever into neutral.
The clutch pedal must be depressed fully before the starter will engage.

▷ **Tiptronic:**
Move the selector lever to "P" or "N".

Switch position 0

The ignition key can be withdrawn in this position only.
Tiptronic models:
The ignition key can be withdrawn only when the selector lever is in the "P" position.

The steering is locked when the key is withdrawn.

▷ Engage the steering lock by moving the steering wheel to the left or right.
Turn the steering wheel to the locking position before you switch off the engine so that you don't have to exert yourself when locking or unlocking the steering.

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Switch position 1

Ignition is on.
All electrical equipment can be switched on.
The warning lights light up for a lamp check.
Please note the description of the individual warning lights.

▷ When turning the key to position **1**, relieve the steering lock with a slight steering movement.

Note

To conserve battery power at low rpm (traffic jams, town driving etc.), switch off all electrical consumers which are not needed at that moment.

Switch position 2

Starting the engine

▷ Turn the key from position **1** to position **2**.

The clutch pedal must be depressed fully before the starter will engage.
The first operation of the starter is ended automatically when the engine starts.
If the engine does not start, subsequent starter operations will not be ended automatically.

If the engine does not start at the first time or stalls at any time, the key must be returned to position **0**.
When the engine is running, the warning lights should go off. If a light does not go off, take appropriate action as indicated in this manual.

Switching engine off

▷ Turn the ignition key from position **1** to position **0**.

⚠ Warning!

Risk of an accident.
The steering wheel will lock and will cause loss of steering.

▷ Never remove key from the ignition lock or turn the key off while the vehicle is moving.

▷ To avoid battery run-down, always remove the ignition key from the ignition lock.
See also the chapter on "Battery".

▷ Turn the steering wheel until the steering lock is engaged.

Note

On vehicles with Tiptronic it is only possible to remove the ignition key if the selector lever is in position "P".

Gong

If you leave the key in the ignition/steering lock, a gong will sound when the driver's door is opened. This is a reminder to remove the key.

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Starting Procedures

See also the chapter on "Immobilizer".

⚠ Warning!

Serious injury may result if you are involved in a collision without having fastened the safety belts.

▷ Fasten safety belts before driving away.

Before starting the engine

▷ Apply the handbrake.

▷ **Manual transmission:**
Move the gearshift lever into neutral.
The clutch pedal must be depressed fully before the starter will engage.

▷ **Tiptronic:**
Move the selector lever to "P" or "N".

Temperature sensors on the engine automatically provide the correct fuel/air mixture required for starting.
Therefore, it is **not necessary to depress the accelerator pedal** while starting a cold or a warm engine.

▷ As soon as the engine starts, release the ignition key.

The first operation of the starter is ended automatically when the engine starts.
If the engine does not start, subsequent starter operations will not be ended automatically.

If the engine fails to start after 10 or 15 seconds of cranking:

▷ Wait about 10 seconds before engaging the starter again.

▷ Do not let the engine idle to warm up.

▷ When starting the engine, be ready to drive immediately.
Drive vehicle at moderate speeds and avoid engine speeds above 4,200 rpm during the first 5 minutes.

⚠ Danger!

Engine exhaust fumes have many components which you can smell. They also contain carbon monoxide (CO), which is a colorless and odorless gas.
Carbon monoxide can cause unconsciousness and even death if inhaled.

▷ Never start or let the engine run in an enclosed, unventilated area.
It is not recommended to sit in your car for prolonged periods with the engine on and the car not moving.

An unattended vehicle with a running engine is potentially hazardous.
If warning lights should come on to indicate improper operation, they would go unnoticed.

▷ Never leave the engine idling unattended.

Danger of fire.

▷ Do not park or operate the vehicle in areas where the hot exhaust system may come in contact with dry grass, brush, fuel spill or other flammable material.

▷ If your car catches on fire for any reason, call the fire department.
Do not endanger your life by attempting to put out the fire.

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Stopping engine

▷ Turn key back to position **0**.

▷ Do not stop engine immediately after hard or extended driving.
Keep engine running at increased idle for about two minutes to prevent excessive heat build-up before turning off engine.

▷ To avoid battery run-down, always remove the ignition key from the ignition lock.

▷ Make sure that when you leave the car, even briefly, you have withdrawn the ignition key.

▷ Engage the steering lock by moving the steering wheel to the left or right.
Turn the steering wheel to the locking position before you switch off the engine so that you don't have to exert yourself when locking or unlocking the steering.

⚠ Warning!

Hot engine compartment components can burn skin on contact.

▷ Before working on any part in the engine compartment, turn the engine off and let it cool down sufficiently.

Engine-compartment blower, radiator fans

The radiators and radiator fans are in the front of the car.
The engine-compartment blower is mounted on the engine compartment lid.

⚠ Warning!

Risk of injury.
The engine-compartment blower always runs when the ignition is switched on. After the ignition is switched off, the engine compartment and coolant temperatures are monitored for approx. 20 minutes.
During this period, and depending on temperature, the engine-compartment blower and radiator fans may continue to run or start to run.

▷ Carry out work in these areas only with the engine off and exercise extreme caution.

Automatic garage door

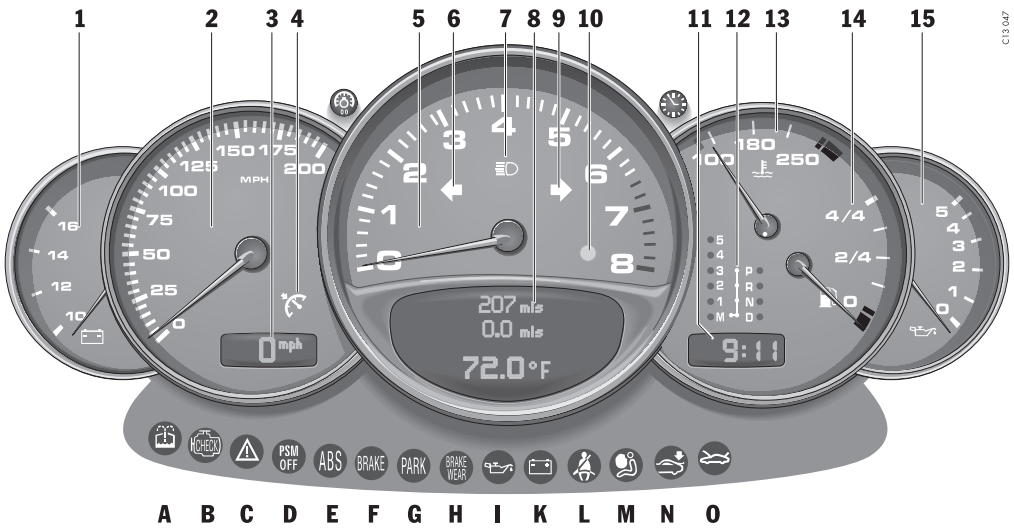
The ignition system in your Porsche may interfere with your electronically operated garage door.

▷ To check this, drive your Porsche close to the garage door. Make sure not to interfere with the operating range of the door.

▷ Run the engine at different speeds.

If the garage door opens or closes without you operating the garage door unit in your car, contact the dealer who installed the automatic garage door to have the frequency and/or coding of the garage door signal changed or modified.

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Instrument Panel USA Models

Information about individual indicators is given on the specified pages.

1 Voltmeter, **66**

2 Speedometer with analogue display, **68**

3 Speedometer with digital display, **68**

4 Automatic speed control indicator light, **66**

5 Tachometer, **69**

6 Turn signal indicator light, left, **69**

7 High beam indicator light, **69**

8 On-board computer, **76 – 91**

9 Turn signal indicator light, right, **69**

10 Light sensor for instrument illumination, **67**

11 Clock, **73**

12 Tiptronic indicator, **71**

13 Cooling system
Temperature gauge, warning light, **70, 71**

14 Fuel
Level gauge, warning light, **72**

15 Engine oil pressure gauge, **74**

Warning lights/indicator lights

A Washer fluid level warning light, **147**

B Check engine warning light, **75**

C Porsche Stability Management (PSM)
Information light, **53**

D Porsche Stability Management (PSM)
Warning light, **53**

E ABS warning light, **51**

F Brake fluid level,
Brake distribution warning light, **48, 140**

G Parking brake warning light, **47**

H Brake pad wear warning light, **49**

I Engine oil pressure warning light, **74**

K Battery warning light, **66**

L Safety belt warning light, **35**

M Airbag warning light, **41**

N Retractable rear spoiler warning light, **44**

O Luggage compartment lid/
engine compartment lid warning light, **110**

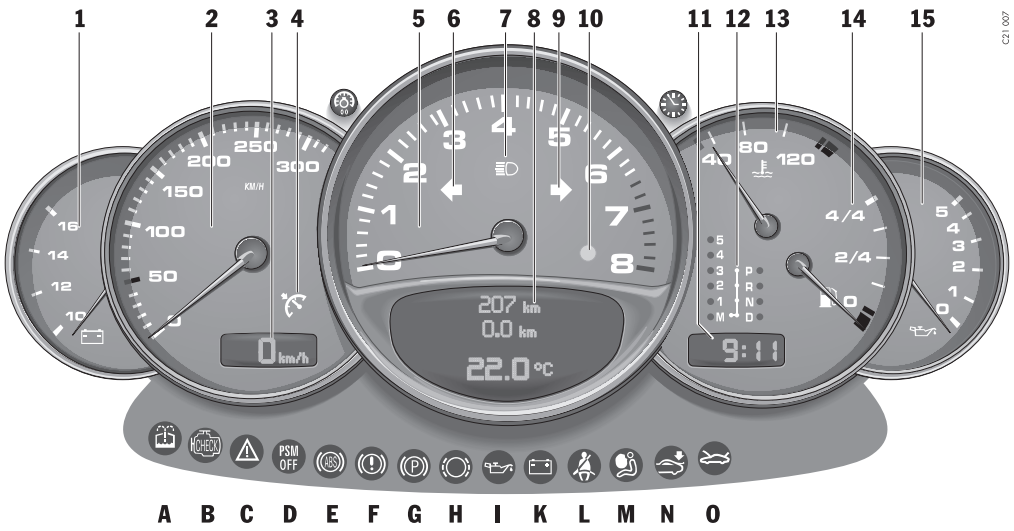
When the ignition is switched on, the warning lights light up for a lamp check.

Note

Warnings that have been given are stored in the appropriate control unit memory and can be read out at an authorized Porsche dealer.

This information can help to warn you about situations which may be hazardous to you or your car.

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Instrument Panel Canada Models

Information about individual indicators is given on the specified pages.

1 Voltmeter, **66**

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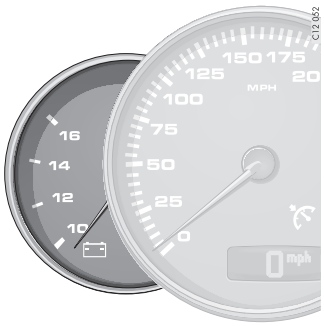
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Voltmeter

Indicates the battery voltage.
Normal range: 12 to 16 volts.

The voltage may drop considerably when the vehicle is being started.

If the gauge is continually below 12 volts when the engine is running:

▷ Have the battery charging system checked at an authorized Porsche dealer.

Battery

Warning light

The warning light in the instrument panel comes on when ignition is switched on and must go off when engine is running.

If the warning lights in the instrument panel and on-board computer come on while the engine is running or while driving:

▷ Stop the car in a safe place and stop the engine.

Possible causes

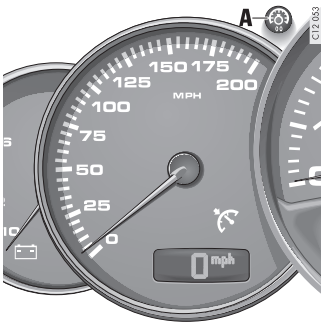
- Defect in the battery charging system.
- Broken drive belt.

Warning!

Risk of an accident and risk of engine damage.
A broken drive belt means there is no power assistance to the steering (more effort is required to steer) and coolant pump function will stop.

▷ Do not continue driving.

▷ Have the fault remedied at the nearest authorized Porsche dealer.



A - *Adjustment button for instrument illumination and trip counter*

Automatic Speed Control

Indicator light

Indicates automatic speed control readiness.

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Instrument Illumination

The illumination is automatically adjusted to the ambient brightness by the light sensor in the tachometer.

In addition, when the car lights are switched on, the instrument and switch symbol brightness can be manually adjusted.

Warning!

Risk of an accident, personal injury and loss of control.

▷ Do not reach through the steering-wheel spokes while driving.



Dimming instrument illumination

▷ Turn adjustment button **A** in the appropriate direction and hold it until the desired brightness has been reached.
The chosen level of brightness is indicated by a bar display in the display field of the on-board computer.

Trip Odometer

Warning!

Risk of an accident, personal injury and loss of control.

▷ Do not reach through the steering-wheel spokes while driving.

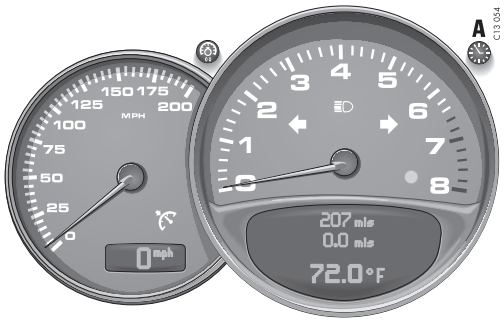
Resetting to zero

▷ Press adjustment button **A** for approximately one second **or**

▷ Reset the distance in the "SET" menu of the on-board computer.
Refer to the chapter "On-board computer".

After exceeding 6213 miles or 9999 kilometers, the counter returns to "0".

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A - *Adjustment button for change-over between kilometers/miles*

Speedometer

The digital speedometer is integrated in the pointer instrument.
The indication changes from mph to km/h when the units are changed from miles to kilometres.

Changing over between Miles / Kilometers

You can use adjustment button **A** to change the units of the distance and speed displays in the on-board computer and digital tachometer.

⚠ Warning!

Risk of an accident, personal injury and loss of control.

▷ Do not reach through the steering-wheel spokes while driving.

Switching between units

▷ With the ignition on, hold adjustment button **A** turned to the left for approx. 5 seconds.

Note

The units of the distance and speed displays can also be changed in the "SET" menu of the on-board computer.

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Tachometer

The tachometer shows the engine speed in revolutions per minute (rpm).
The beginning of the red marks at the right end of the scale indicates the maximum permissible engine rpm.
A speed limiter prevents the engine from being overrevved during acceleration. Before reaching this area, the next **higher** gear should be selected.
Shift to the next **lower** gear when the engine rpm drops below 1500 rpm.

Caution!

To avoid severe engine damage.

▷ Always observe the engine rpm before downshifting to a lower gear, so you do not exceed the maximum engine rpm.

Turn Signal Indicator Light

Flashes in synchronism with the turn signals.

Left arrow – left turn signals
Right arrow – right turn signals

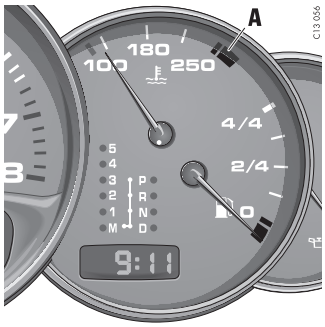
▷ If the frequency of the display becomes noticeably faster, check the operation of the turn signals.

High Beam

Indicator light

Lights when high beam or headlight flasher is switched on.
The indicator light goes out when the high beams are switched off.

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Cooling System

Temperature gauge (ignition on)

USA: Display in °F
Canada: Display in °C

Pointer to the left – engine cold

▷ Avoid high engine speeds and heavy engine loading.

Pointer in the middle – normal operating temperature

The pointer may move up to the red area when engine is heavily loaded and outside temperature is high, but should return to "normal" when engine load is reduced.

Warning light "A"

If the **coolant temperature** is too high, the warning light **comes on**.
Additionally, a warning is displayed in the on-board computer.

▷ Pull off the road, turn off the engine and allow to cool.

▷ Check radiator and air passages in front end of car for obstructions.

▷ Check coolant level.
If necessary, add coolant and have fault remedied at an authorized Porsche dealer.
Follow the warnings and instructions in the "Coolant level" chapter.

Note

To prevent excessive temperatures, the cooling-air passages must not be restricted by coverings (e.g. films, "stone guards").

If the **coolant level** is too low, the warning light **flashes**.
Additionally, a warning is displayed in the on-board computer.

▷ Switch engine off and allow to cool.

▷ Add coolant.

▷ Have the cause of the fault remedied at an authorized Porsche dealer.
Follow the warnings and instructions in the "Coolant level" chapter.

Caution!

Risk of engine damage.

▷ If the warning lights come on even though coolant level is correct, do not continue driving.

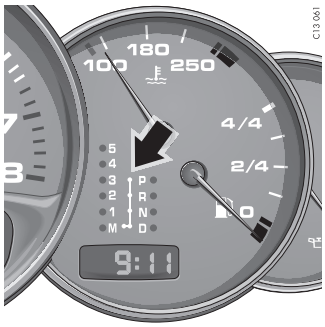
▷ Have the fault remedied at the nearest authorized Porsche dealer.

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Engine compartment blower fan

In addition, this warning light **flashes** to indicate a fault in the **engine compartment blower fan**.

▷ Have the cause of the fault remedied at an authorized Porsche dealer.



Tiptronic S

Indicator for selector lever position and selected gear

When the engine is running, the selector lever position and engaged gear are indicated.

If the selector lever is between two positions:

- The selector lever position in the instrument cluster flashes, **and**
- the warning "selector lever not engaged" appears on the display of the on-board computer.

▷ Engage the selector lever correctly.

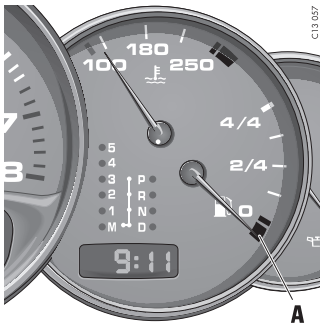
If there is a fault in the transmission:

- **4th gear** flashes on the display.
- The warning "Tiptronic emergency run" appears in the on-board computer.
  Also refer to "Emergency program".

▷ To remedy the fault, please consult an authorized Porsche dealer immediately.

Follow the instructions in the chapter "Tiptronic".

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Fuel

Level gauge

When the ignition is on the fuel level is displayed.
For tank capacity, see "Capacities" chapter.

If the vehicle's inclination changes (e.g. going up or downhill), minor deviations in the indication may occur.

Note

If the tank is near empty and you top up with only a small quantity of fuel, this cannot be registered by the level gauge and calculation of the range remaining is impossible.

Warning light "A"

When the engine is running, the warning light of the level gauge **lights up** if less than approx. 3 U.S. gallons (12 litres) of fuel remains in the tank or the range on remaining fuel falls below approx. 30 miles (50 km).
Additionally, a warning is displayed in the on-board computer.

▷ Fill up at the next opportunity.

⚠ Caution!

To prevent damage to the emission control system and engine.

▷ Never drive the tank completely out of fuel.

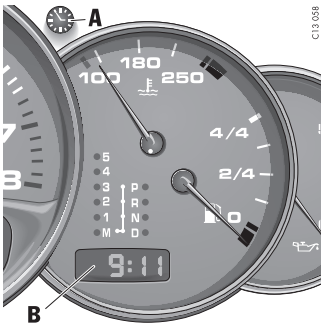
▷ Avoid high cornering speeds after the warning lights have come on.

▷ Follow the instructions in the "Emission Control System" chapter.

If the level gauge warning light flashes, there has been a system fault.
Additionally, a warning is displayed in the on-board computer.
There will then be no reserve warning.

▷ To remedy the fault, go to an authorized Porsche dealer.

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A - *Adjustment button for clock*
B - *Clock*

Clock

The **clock** is blanked out approximately four minutes after the ignition is switched off or when the car is locked.

Setting the time

Warning!

Risk of an accident and loss of control.

▷ Do not reach through the steering-wheel spokes while driving.

Setting hours

▷ Press adjustment button **A** for about one second.
Hour display flashes.

▷ Turn button in the appropriate direction:
to right – increase hours figure
to left – decrease hours figure.

Adjustment in hours – turn button briefly
Fast adjustment (display cycles) – turn and hold button.

Setting minutes

▷ Press adjustment button again.
Minutes display flashes.

▷ Set by rotating as in hours mode.

Leaving adjustment mode

Automatically after one minute **or**:

▷ Press adjustment button again.

When adjustment mode is deliberately left by pressing the button, the time begins precisely to the second.

Note

The time mode can be changed between 12h and 24h in the on-board computer.

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Engine Oil Pressure

Gauge

With a warmed-up engine and at a speed of 5000 rpm, the engine oil pressure should be approx. 4.5 bar or higher.

If the oil pressure drops abruptly and the warning lights in the instrument panel and in the on-board computer come on while the engine is running or while driving:

▷ Immediately stop in a suitable place.
See “Warning light”.

Warning light

The warning light in the instrument panel lights up when ignition is switched on and must go out when engine is running.

If the warning lights in the instrument panel and in the on-board computer come on with the engine running or while driving:

▷ Immediately stop in a suitable place.

▷ Switch off the engine.

▷ Check whether there is an obvious oil leak on or under the car.

▷ If no oil leak can be detected:
Measure the oil level using the on-board computer with **the engine idling**.
Refer to the chapter “On-board computer”.

▷ Add engine oil if necessary.
Refer to the chapter “Engine oil level”.

Caution!

Risk of engine damage.

▷ Do not continue driving if there is an obvious oil leak.

▷ Do not continue driving if the warning lights comes on even though oil level is correct.

▷ Have the fault remedied at the nearest authorized Porsche dealer.

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Check Engine Warning Light

The warning light in the instrument panel comes on when the ignition is first turned on and remains on briefly as a bulb check. If the light does not come on, have the bulb replaced promptly.

If the warning lights in the instrument panel and on-board computer come on and remain on while driving, it suggests:

- a potential engine control problem and the need for system service **or**
- an improperly fastened tank cap **or**
- refuelling with engine running.

Although the vehicle is usually driveable and will not require towing, see your dealer for service as soon as possible.

⚠ Caution!

If the Check engine light in the instrument panel is flashing, severe catalytic converter damage and power loss will soon occur. Prolonged driving with the Check engine light on could cause damage to the emission control system. It also could affect fuel economy and driveability.

▷ Have the fault remedied at the nearest authorized Porsche dealer immediately.

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On-Board Computer (BC)

Display field

The display field is beneath the tachometer.

Readiness for operation

- With ignition switched on,
- with engine running.

Operation, controls

It is not possible to describe all details of the on-board computer functions in this Owner's Manual.
However, the examples will quickly familiarize you with the functional principle and help you to navigate through the menu structure.

You can restore the factory default settings at any time by using the "SET" menu.

Operating lever

The on-board computer is operated with the lower left lever on the steering column.

Selecting functions of the on-board computer

▷ Push lever up **1** or down **2**.

Confirming selection (Enter)

▷ Push lever forward **3**.

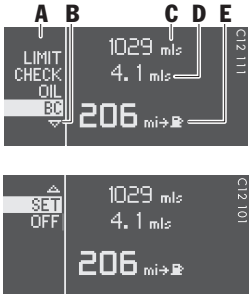
Moving back one or several selection levels

▷ Pull the lever back **4** once or several times.

Note:
You can always return to the basic menu by pulling the operating lever several times.

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Functions and display possibilities



A - *Selection field*
B - *Continuation arrow symbol*
C - *Top display*
D - *Central display*
E - *On-board computer display*

Basic setting

- Top display: Odometer
- Central display: Trip odometer

You can change both displays to suit your requirements by using the “SET” menu.

Calling on-board computer functions in display “E”

▷ Push operating lever up or down (selection field **A** must be switched off).

The following displays can be called step by step:
– Outside temperature (°F),
– Average speed (∅mph),
– Average consumption (∅mpg),
– Range on remaining fuel (mi→ ⛽),
– Engine boost pressure (bar),
– Navigation information (if activated in the ”SET“ menu.

Canada vehicles:
The units in the on-board computer are displayed in kilometers, liters and °C.

The values “Trip odometer”, “Average speed” and “Average consumption” can be reset to zero using the “BC” menu.

Note

Pulling the operating lever to the rear **4** takes you directly from a value which can be reset to the “BC” menu.

Switching selection field “A” on or off

▷ Push operating lever forward or back.

Arrow symbol “B” for continuation

Arrow symbol ∇:

▷ Push operating lever down in order to continue the menu.

Arrow symbol ∆:

▷ Push operating lever up in order to continue the menu.

▷ ▷ ▷

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“LIMIT”
Acoustic warning signal for speed limit

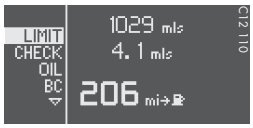
The acoustic warning signal can be activated for speeds above 6 mph (10 km/h).
The signal sounds if the preset speed is exceeded.
For the signal to sound again, the driving speed must fall below the preset speed by at least 3 mph (5 km/h).

Switching on selection field “A”

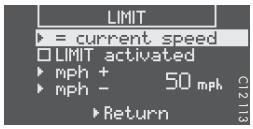
▷ Push operating lever forward.

Setting the speed

▷ Select “LIMIT” with the operating lever.



▷ Push operating lever forward.



Option 1:
Accept current speed

▷ Push operating lever forward.



The acoustic warning signal is activated for the current speed.
Display: ▣

Option 2:
Preset speed

▷ Select “LIMIT activated” with the operating lever.
☐ not activated
▣ activated

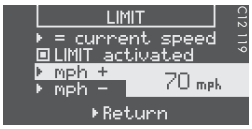
▷ Press the operating lever forward if the “not activated” display appears.



▷ Use the operating lever to select “mph +” or “mph –”.



▷ Push operating lever forward until the desired speed is reached.
The acoustic warning signal is activated for the desired speed.



Switching the acoustic warning signal off

▷ Select “LIMIT activated” with the operating lever:

▷ Push operating lever forward.
Display: ☐

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“CHECK”
Warning messages

Switching on selection field “A”

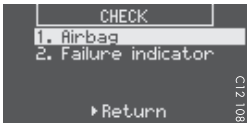
▷ Push operating lever forward.

Calling warning messages

▷ Select “CHECK” with the operating lever.



▷ Push operating lever forward.



Any existing warning messages can be called using the operating lever.
You also can call warning messages which were acknowledged during the journey (only until the next time the ignition is switched on).

▷ Push operating lever forward.



▷ ▷ ▷

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"OIL"
Display and measurement of the engine oil level

Caution!

Risk of engine damage.

▷ Regularly check the oil level before refuelling.

▷ Do not allow the oil level to fall below the minimum mark.

Conditions for measuring the oil level

1. Engine idling.
2. Engine is at operating temperature.
3. Vehicle is level.
4. Vehicle stationary.

Switching on selection field "A"

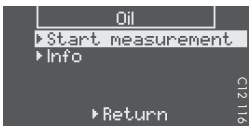
▷ Push operating lever forward.

Initiating oil level measurement

▷ Select "OIL" with the operating lever.



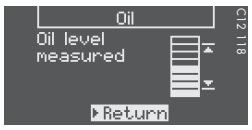
▷ Push operating lever forward.



▷ Push operating lever forward.
Measurement is started.



The waiting time for oil level measurement is indicated by a time display and "cycling" segments of the oil level display.



Once the measurement has been completed, you can read off the engine oil level on the segment display.
If the oil level has fallen below the min. mark, the segment below the min. mark flashes.

The difference between the min. and max. marks on the segment display is approx. 1.5 litres (1.6 quarts).
One segment of the display corresponds to a quantity of approx. 0.25 litre (0.26 quart).

Top up engine oil. Refer to the chapter "Engine oil level".
Never add more engine oil than required to reach the max. mark.

Info

The "Info" function allows you to call the prerequisites for oil level measurement.

Failure

A failure of the oil level display is indicated by a warning message in the on-board computer.

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Display “Check oil level”

The computer display “Check oil level” is an additional reminder to you to check the oil level.

The display depends on the distance travelled and the operating conditions, and does not indicate whether or not the oil level is correct.

▷ ▷ ▷

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“BC”
Calling and resetting on-board computer functions

Switching on selection field “A”

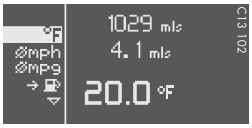
▷ Push operating lever forward.

Example:
Resetting average consumption

▷ Select “BC” with the operating lever.



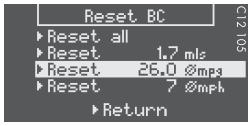
▷ Push operating lever forward.



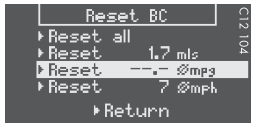
▷ Select “Ømpg” with the operating lever.



▷ Push operating lever forward.



▷ Push operating lever forward.



The average consumption is reset to “– –.– Ømpg”.

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“SET”
Basic setting of on-board computer

Switching on selection field “A”

▷ Push operating lever forward.

Changing the basic setting of the on-board computer

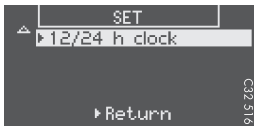
▷ Select “SET” with the operating lever.



▷ Push operating lever forward.







▷ Select the desired function with the operating lever:

Reset

- Reset all,
  Reset trip counter,
  Reset average consumption,
  Reset average speed

Speedometer km/mls

- Change over between kilometres and miles

Display
(Individual combination of upper and central lines of the on-board computer)

- Changing top display
  - Total mileage
  - Trip counter
  - Audio information (set radio station)
  - Outside temperature
  - Range on remaining fuel
  - Average speed
  - Average consumption
- Changing central display
  - Total mileage
  - Trip counter
  - Outside temperature
  - Range on remaining fuel
  - Average speed
  - Average consumption

▷ ▷ ▷

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Navigation

- Integrated in the on-board computer (navigation instructions can be recalled in the on-board computer display)
- For all turns (navigation instructions are displayed only prior to direction changes)

Basic setting

- Restore the basic setting of the on-board computer

Language

- Select language version

Consumption

- Select unit for fuel consumption: l/100 km, mls/gal (USA), mpg (UK), km/l

Temperature

- Select unit for temperature: °C, °F

12/24h mode

Select time mode:
12h, (small squares on the left side of the time display for AM/PM),
24h

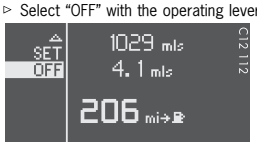
"OFF"
On-board computer display

Switching on selection field "A"

▷ Push operating lever forward.

Switching on-board computer display off

▷ Select "OFF" with the operating lever.



▷ Push operating lever forward.
Display is switched off.

Switching on-board computer display on again

▷ Push operating lever in any direction.

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General information regarding the on-board computer functions

Range on remaining fuel

The range on remaining fuel is continuously recomputed while driving based on fuel level, current consumption and average consumption.
The more the fuel level falls, the more spontaneously the display reacts. For this reason, range on remaining fuel is not displayed if less than 15 kilometres (9 miles).

If the vehicle's inclination changes while driving or refuelling, incorrect range information may temporarily be given.

Note

If the tank is nearly empty and you add only a small quantity of fuel, this cannot be used to calculate the range on remaining fuel.

Average consumption and average speed

The displayed values are based on the distance travelled since the last reset to "zero".

You can set the starting time for a measurement before or during the trip.
Switching the ignition off does not reset the measurements. Values can thus be collected over long periods.
Disconnecting the car battery clears these memories.

Outside temperature

The outside temperature display does not indicate, if ice is on the road.
Even if a temperature above 32°F (0°C) is displayed, ice may still form on the road, for instance on bridges or when the road passes through a heavily shaded area.

Engine boost pressure

As the engine is equipped with a boost pressure control feature, the boost pressure is variable.

The boost pressure depends on the ambient pressure and on the octane rating of the fuel used.

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Warnings in the Instrument Panel and in the On-Board Computer

If a warning message appears, always refer to the corresponding chapters in the Owner's Manual.
Warning messages are issued only if all measurement preconditions are met. Therefore, check all fluid levels regularly – in particular, always check the engine oil level before refuelling.

Instrument panel	On-board computer	Text display in on-board computer	Meaning/measure
		Seat belt	Driver and passengers must fasten their safety belts.
USA 		Handbrake	Handbrake not released.
Canada 			
		Ignition key not removed	
		Lights on	
		Front/rear lid not closed	Close lids properly.
		Refill washer fluid	
		Trip counter reset	Trip odometer is reset to 0.

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Instrument panel	On-board computer	Text display in on-board computer	Meaning/measure
		Units are changed	The units kilometers/miles for speed and distance were changed.
		LIMIT Cannot be accepted with vehicle stopped	Current speed can be accepted for the acoustic warning signal only if the vehicle is in motion.
	USA  **Canada** 	LIMIT exceeded	Selected speed limit for the acoustic warning signal has been exceeded. Adjust your speed if necessary.
Fuel level gauge warning light		Consider range on remaining fuel	Refuel at the next opportunity.
		Engine oil pressure too low	Stop immediately at a suitable place, measure oil level with the on-board computer and, if necessary, add engine oil.
Temperature gauge warning light		Engine temperature too high	Switch engine off and let it cool. Check coolant level and, if necessary, add coolant.
Temperature gauge warning light flashes		Check coolant level	Switch engine off and let it cool. Check coolant level and, if necessary, add coolant.

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Instrument panel	On-board computer	Text display in on-board computer	Meaning/measure
		Check Engine	Refer to chapter "Check engine warning light". Have the fault remedied at an authorized Porsche dealer.
Temperature gauge warning light flashes		Failure of engine-compartment blower	Have fault remedied at an authorized Porsche dealer.
		Warning battery/ generator	Stop in a safe place and switch the engine off. Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
		Failure indicator	Oil pressure indicator is faulty. Have the fault remedied at an authorized Porsche dealer.
		Failure oil level indicator	Have the fault remedied at an authorized Porsche dealer.
		Failure indicator	Coolant temperature gauge is faulty. Have the fault remedied at an authorized Porsche dealer.
		Failure indicator	The coolant temperature gauge, tacho-meter or cruise control, etc., could be faulty. Have the fault remedied at an authorized Porsche dealer.

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Instrument panel	On-board computer	Text display in on-board computer	Meaning/measure
USA  **Canada** 	 	Service wear on brake pads	Have the brake pads replaced at an authorized Porsche dealer without delay.
USA  **Canada** 	 	Warning brake fluid level	Stop immediately in a suitable place. Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
USA  **Canada** 	 	Warning brake distribution	Stop immediately in a suitable place. Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
USA  **Canada** 	 	ABS failure	Have the fault remedied at an authorized Porsche dealer.

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Instrument panel	On-board computer	Text display in on-board computer	Meaning/measure
		Failure indicator	The speedometer, ABS or PSM warning lights and systems, etc., could be faulty. Have the fault remedied at an authorized Porsche dealer.
		PSM failure	Have the fault remedied at an authorized Porsche dealer.
		Airbag failure	Have the fault remedied at an authorized Porsche dealer.
		Failure spoiler control	Driving stability is impaired. Adjust your driving style. Have the fault remedied at an authorized Porsche dealer.
Selector lever position indicator flashes		Selector lever not engaged	Selector lever could be between two positions. Engage the selector lever correctly.
Selector lever position indicator flashes		Tiptronic emergency run	Have the fault remedied at an authorized Porsche dealer.
		Failure indicator	The displays of several systems might have failed. Have the fault remedied at an authorized Porsche dealer.
		Failure of fuel level indicator Go to workshop	Have the fault remedied at an authorized Porsche dealer.

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Instrument panel	On-board computer	Text display in on-board computer	Meaning/measure
		Failure outside temperature indicator	Have the fault remedied at an authorized Porsche dealer.

Acknowledging warning messages

Warning messages can be erased from the on-board computer display.

▷ Push operating lever of on-board computer forward.

You can recall erased warning messages in the "CHECK" menu.

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Emergency Flasher Switch

Operational readiness of the emergency flasher does not depend on the ignition lock and turn signal lever position.

▷ If your car is disabled or parked under emergency conditions switch on the emergency flasher in the dashboard (arrow).
All turn signals and the indicator light in the switch flash with the same frequency.

Warning!

Risk of an accident.

▷ Whenever stalled or stopped for emergency repairs, move the car well off the road. Switch on the emergency flasher and mark the car with road flares or other warning devices.

▷ Do not remain in the car. Someone approaching from the rear may not realize your vehicle is stopped and cause a collision.

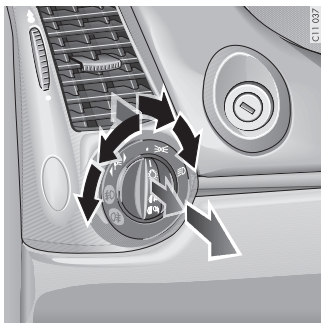
Danger of fire.

▷ Do not park or operate the vehicle in areas where the hot exhaust system may come in contact with dry grass, brush, fuel spill or other flammable material.

Hot engine compartment components can burn skin on contact.

▷ Before working on any part in the engine compartment, turn the engine off and let it cool down sufficiently.

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Light Switch

● **Lights switched off**

Parking lights, side marker lights, license plate light, instrument illumination

Low beam, high beam
Only with ignition on

Fog lights in addition to parking lights or low beam:
Pull switch to first click.
Indicator light on.
The fog lights will go out automatically when the high beams are switched on.

Rear fog light in addition to the fog lights:
Pull switch to second click.
Indicator light on.

Parking light right/left
Only when ignition key is withdrawn:
Pull switch out slightly in position "0" and turn to
– parking-light position left
– parking-light position right.
Parking lights and side marker lights are lit on the selected side.

If the ignition key is withdrawn and the door is opened while the lights (not the parking light left/right) are on, a **gong** warns of possible battery discharge.

In some countries, differences are possible due to provisions of law.

Automatic Headlight Beam Adjustment

When the ignition is switched on, the level of the headlight beam automatically changes in accordance with the vehicle load.
The level of the headlight beam is automatically kept constant during acceleration and braking.

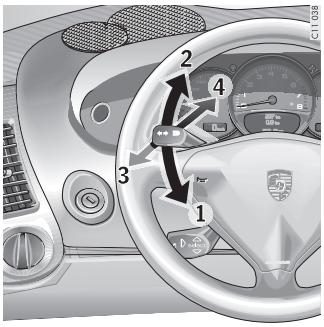
Checking operation

1. Switch the low beam on.

2. Switch ignition on.
   The light beam first dips all the way down and is then adapted to the vehicle load.

   It this test item is not met, the headlight beam adjustment must be checked by an authorized Porsche dealer.

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Turn Signal / Headlight Dimmer/Flasher Lever

Turn signals, low beam and high beam are ready for operation when the ignition is on.

1 – Turn signal left
2 – Turn signal right
3 – High beam
4 – Headlight flasher
Lever in center position – Low beam

When high beam and headlight flasher are selected, the blue indicator light in the tachometer is lit.

The turn signal lever turns off automatically when the steering wheel is straightened out after completing a turn.

Lane changer

- To indicate your intention when changing lanes on the freeway, slightly lift or depress the lever to the resistance point.
  The lever will return to the OFF position when released.
- If the frequency of the display becomes noticeable faster, check the operation of the turn signal bulbs.

Headlight flasher

(With ignition on or off)

- To flash the headlights to oncomming motorists, slightly pull the lever toward the steering wheel and then release it.
  The blue indicator light in the tachometer will go on/off as you pull/release the lever.

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Windshield Wiper / Washer Lever

⚠ Caution!

Danger of injury when the windshield wipers operate unintentionally.
Risk of damage to the windshield and wiper system.

- ▷ Avoid running the wiper blades over a dry windshield to prevent scratching the glass. Spray washer fluid on the windshield first. A scratched windshield will reduce visibility.
- ▷ Always loosen wiper blades from frozen glass before operating wipers to prevent damage to the wiper motor or blades.
- ▷ Always switch off windshield wipers in car wash to prevent them wiping unintentionally (intermittent or sensor operation).
- ▷ Always switch off windshield wipers before cleaning the windshield to avoid unintentional operation (intermittent or sensor operation).
- ▷ Do not operate the headlight washer in car washes.
- ▷ Do not operate headlight washer when it is frozen.

0 – Windshield wipers off
1 – Windshield wipers slow
2 – Windshield wipers fast

3 – Intermittent operation

4 – Windshield washer system:
Sprays while the lever is pulled towards the steering wheel in the **first** position.
When the lever is released, a few drying wipes are executed.

5 – Windshield wipers and washer system:
Sprays and wipes while the lever is pulled towards the steering wheel in the **second** position.

6 – Headlight washer:
Sprays only while low beam or high beam is switched on.
The spray duration is limited. If heavily soiled, repeat wash.
Persistent dirt (e.g. insect remains) should be regularly removed.
See the chapter on "Car Care Instructions".

Note

The **windshield washer nozzles** are heated when the ignition is on, as a precaution against freezing.

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Wipe interval control

In windshield wiper intermittent mode **3** the wipe intervals can be infinitely adjusted (not in vehicles with a rain sensor).

Shortening wipe intervals

▷ Turn thumb wheel **A** clockwise.

Lengthening wipe intervals

▷ Turn thumb wheel **A** counter-clockwise.

Rain sensor

In vehicles with a rain sensor the amount of rain or snow which has settled on the windshield is measured. The wiper speed is controlled accordingly between intermittent and continuous operation (wiper speed 1 and 2).

Switching rain sensor on

▷ Move wiper lever in position **3**.

Switching rain sensor off

▷ Move wiper lever in position **0**.

Note

The rain sensor remains switched off if the wiper lever is already in position **3** when the ignition is switched on.

To switch the rain sensor on:

▷ Move wiper lever to position **0** and then back to position **3 or**

▷ Operate windshield washer system **or**

▷ Change the sensitivity of the rain sensor with the thumb wheel.

Switch-on is confirmed by one wipe of the windshield.

Changing the sensitivity of the rain sensor

Sensitivity can be set with the thumb wheel **A** in 6 stages.

▷ Turn thumb wheel **A** counter-clockwise - low sensitivity.

▷ Turn thumb wheel **A** clockwise - high sensitivity.
The setting is confirmed by one wipe of the windshield.

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A - *Automatic speed control readiness off/on*
1 - *Hold and store/accelerate*
2 - *Decelerate/resume*
3 - *Interrupt*

Automatic Speed Control

The automatic speed control maintains any selected speed between 25 mph and 120 mph/ 40 km/h and 200 km/h without you having to use the accelerator.
The automatic speed control is operated with the lever on the steering wheel.

⚠ Warning!

A constant speed may not be safe in heavy traffic, or on winding or slippery roads.
With the speed control system engaged, the engine speed will not return to idle when removing the foot from the accelerator pedal.

- ▷ Do not use the speed control when it may be unsafe to keep the car at a constant speed.
- ▷ Observe all local and national speed limits.

Switch automatic speed control readiness on

- ▷ Press button **A** on the automatic speed control lever.

This green indicator light in the speedometer now indicates readiness

Hold and store speed

- ▷ Bring the car to the desired speed with the accelerator.
- ▷ Then push operating lever forward **1** briefly.

Accelerating (e.g. to overtake)

- ▷ Increase speed as usual with the accelerator.

When the accelerator is released, the previously saved value is again set.
Automatic speed control operation is automatically interrupted, however, if the speed is increased by more than about 16 mph (25 km/h) for longer than 20 seconds, **or**:

- ▷ Press **operating lever** forward **1** until the desired speed is reached.
  The speed reached is maintained and stored when the lever is released.

Speed can be corrected in steps of 2 km/h (approx. 1 mph) by **briefly** pushing the lever forward or down (up to 10 times).

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Decelerating

▷ Press operating lever down **2** until the desired speed is reached.
The speed reached is maintained and stored when the lever is released.

Speed can be corrected in steps of 2 km/h (approx. 1 mph) by **briefly** pushing the lever forward or down (up to 10 times).

Interrupting automatic speed control operation

▷ Pull operating lever briefly towards the steering wheel **3 or:**

▷ Operate brake or clutch pedal or,
with Tiptronic transmission, select position "N". See also the chapter on "Tiptronic".
The speed driven before the interruption remains stored in the memory.

Automatic speed control operation is interrupted automatically:

- If the set speed is exceeded by more than 16 mph (25 km/h) for longer than 20 seconds,
- if the actual speed falls to 6 mph (10 km/h) below the set vehicle speed for longer than 5 seconds (upward slopes).

Resuming the stored speed

▷ Press operating lever briefly down **2**.

The stored speed should only be called up when traffic conditions and the road surface so permit.

Switching automatic speed control readiness off

▷ Press button **A** on the automatic speed control lever.
The green readiness light in the speedometer goes off.

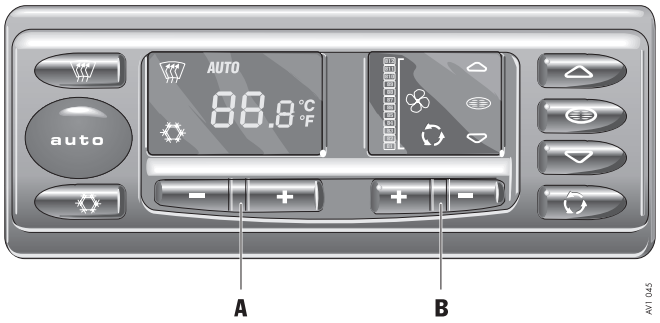
When the vehicle is parked and the ignition switched off, the memory is cleared.

Important note

On upward or downward slopes, the set speed cannot always be maintained by the automatic speed control.

To obtain sufficient engine braking or a better engine-speed range, therefore, you have to select a lower gear.

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Automatic Air Conditioning

The air-conditioning system controls the preselected interior temperature completely automatically.
If necessary, the automatic system can be manually operated.

Left display panel –
Temperature and active functions

Right display panel –
Blower speed and active functions

Automatic operation

▷ Press "auto" button.
Air quantity and distribution are automatically controlled, and variations are compensated.

All automatic setting functions can be individually changed.
This setting is retained until the appropriate function button is pressed again or the "auto" button is pressed.

A – Temperature setting

▷ Press the appropriate button.

To suit personal comfort, the interior temperature can be selected between 65°F and 84°F/ 18°C and 29°C.
Recommendation: 72°F/22°C.

If the display "LO" or "HI" appears, the system is operating at maximum cooling or heating power.

Note

If the preselected temperature is changed, the blower speed can increase automatically in automatic operation.
The desired temperature is reached more quickly this way.

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Defrosting the windshield

▷ Press button.
Windshield is demisted or defrosted as quickly as possible.
Air flows to the windshield only.

Switching compressor for air-conditioning system on or off

Whenever outside temperatures exceed 37°F/3°C, the air-conditioning compressor is always switched on in automatic operation.
The compressor can be switched off to save fuel, but control comfort is then limited.

▷ Press button.
The compressor is switched off, the symbol in the left-hand display goes out.

If the interior temperature is too high, switch compressor back on or press "auto"-button.

To dry incoming air in damp weather, do not switch off the air-conditioning compressor.
This prevents misting of windows.

B – Adjusting blower speed

▷ Press the appropriate button.
Preset blower speed is increased or decreased, and "Manual" appears in the right-hand display field.

The speed stages are indicated by a bar display.

If the minus button is pressed at the lowest blower stage, the blower and automatic control are **switched off**.
"OFF" is displayed in the left-hand display.

Pressing on the plus button or the "auto" button switches the blower and automatic control **back on again**.

Circulating-air setting

Warning!

Risk of accident due to hampered vision.
In circulating-air setting, the windows can mist up.

▷ Only select circulating-air setting for short periods.

▷ If windows mist up, turn off the circulating-air setting by pressing the circulating-air button briefly and select the function "Defrost windshield".

Switching circulating-air setting on or off

▷ Press button.
The outside-air supply is interrupted and only the inside air is circulated.

Over approx. 37°F/3°C

If the air-conditioning compressor was off, it switches on automatically. The duration of circulating-air mode is not limited.

Below approx. 37°F/3°C

The air-conditioning compressor is switched off. Circulating-air mode is automatically ended after approx. 3 minutes.

▷ ▷ ▷

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Air distribution to footwell

▷ Press button.
The air flows to the footwell.

Air distribution to the central and side vents

▷ Press button.
The air flows from the central and side vents. Vents must be open.

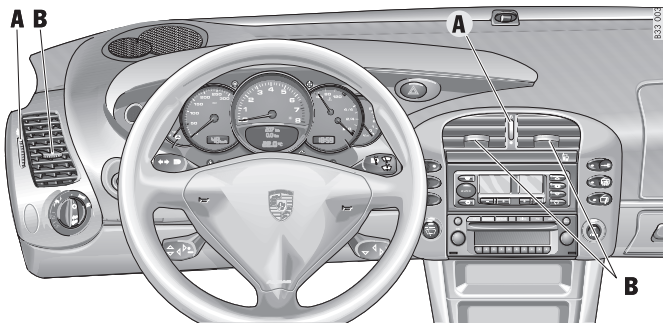
Air distribution to windshield

▷ Press button.
The air flows to the windshield.

General instructions for air-conditioning compressor

- Can switch off briefly if engine is under an extreme load to ensure sufficient engine cooling.
- Switches off automatically at temperatures below 37°F/3°C and cannot be switched on, even manually.
- Operates most effectively with windows closed.
  If the car has been in the sun for a long time, however, it is a good idea to ventilate the interior briefly with door windows open.
- Depending on the outside temperature and humidity, condensation can drip from the evaporator and form a pool under the car.
  This is normal and not a sign of leakage.
- If uncooled air flows out when the lowest temperature has been set, switch off the air-conditioning compressor and consult with an authorized Porsche dealer.

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A - *Continuous opening and closing*
B - *Setting vent direction*

Central and Side Vents

Opening vents

▷ Rotate knurled wheel upward.

Closing vents

▷ Rotate knurled wheel downward.

Changing air flow direction

▷ Move the vanes to make the air flow in the desired direction.

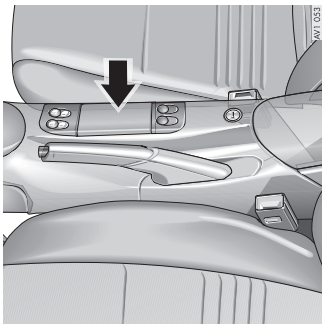
Outside air or conditioned air can be delivered from all vents, depending on the air-distribution setting on the operating panel.

Fresh-air intake

To ensure proper air intake:

▷ Keep the fresh-air inlet between the luggage compartment lid and the windshield free from snow, ice and leaves.

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Ashtray

Opening

▷ Press ashtray lid briefly.

Emptying

▷ Open ashtray and carefully pull out ash insert by the lid.

⚠ Warning!

Danger of fire.

▷ Never use ashtray for waste paper disposal, as it could pose a fire hazard.

Cigarette Lighter

⚠ Warning!

Danger of fire and burning.
The cigarette lighter is ready for use, regardless of the ignition lock position.

▷ Never leave unsupervised children in the car.

▷ Never touch the heating element or sides of the lighter.

▷ Hold the lighter by the knob only.

Heating lighter

▷ Push in knob of the cigarette lighter.
When ready for use, the lighter will snap back.



Operating additional appliances

With the cigarette lighter removed, the socket may be used for small electrical appliances, such as a shaver or hand vacuum cleaner.
Maximum rating: 150 Watt.

▷ Do not operate electrical appliances for more than 5 minutes when engine is off (battery will otherwise discharge).

▷ Do not damage the socket by trying to insert plugs of the wrong design.

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Rear Wiper

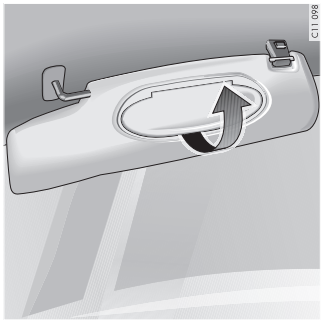
Caution

Risk of damage to the rear window and wiper blade.

- ▷ Only wipe the rear window when sufficiently wet, otherwise it could be scratched.
- ▷ Free frozen wiper blades before setting off.

Switching on

- ▷ Touch the symbol on the rocker switch - the rear wiper wipes twice.



Sun Visors

- ▷ Swing the sun visors down to prevent glare from the front.
- ▷ To prevent glare from the side, unclip the sun visor from the inner bracket and swivel round so that it is in front of the door window.

Vanity mirror

The vanity mirror on the rear of the sun visor is covered by a lid.

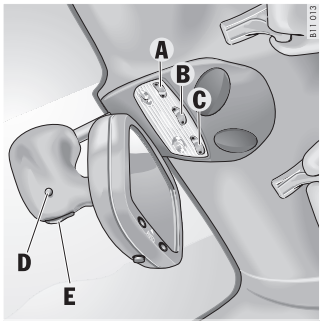
Warning!

Risk of injury!

- ▷ Keep the lid closed while driving.

In the case of an illuminated vanity mirror, the light is switched on when the lid is opened.

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A, C - *Switch for reading light on driver's/ passenger's side*
B - *Interior light switch*
D - *Orientation light switch*
E - *Orientation light*

Interior lights

Please observe the chapter "Load switch-off".

Note

▷ Switch off the automatic anti-glare operation of the mirrors before you switch on the interior light.
Otherwise the mirrors might accidentally go into anti-glare operation.

Interior light, reading lights

Switching off

▷ Press left half of switch.

Switching to continuous illumination

▷ Press right half of switch.

Switching on and off automatically

▷ Move light lens to center position.

The interior light is **switched on** when a door is unlocked or opened or when the ignition key is withdrawn from the ignition lock.

The interior light is **switched off** with a delay of approx. 30 seconds after the door is closed.
The interior light goes out immediately as soon as the ignition key is inserted in the ignition lock or the vehicle is locked.

Orientation light

Light-emitting diodes in the doors and in the bracket of the interior mirror improve your orientation inside the vehicle when it is dark.
The light-emitting diodes are switched on when the vehicle is unlocked and switched off again when the vehicle is locked.

Light-emitting diode in the bracket of the interior mirror

Changing the brightness of the light-emitting diode:

▷ Press switch **D**.
The brightness changes.

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Footwell Lights

The lights are switched on automatically when a door is opened and go out with a delay of approx. 30 seconds after the door is closed.

Switching to continuous illumination

▷ Press the rocker-switch symbol in the center console.
Indicator light comes on.

The light between the sun visors and the door guard lights are switched on additionally. The lights are automatically switched off after approx. 12 minutes in order to save the vehicle battery.
The lights can be switched back on by pressing the rocker switch again.



Switching lights off

▷ Press the indicator light in the rocker switch.

Fixed rear spoiler

Caution!

Risk of damage to rear spoiler.

▷ Please consult the operator before using automatic car washes.

▷ Do not push the vehicle by the spoiler.

Front spoiler

Caution!

Risk of damage due to reduced ground clearance. The car may have ground contact.

▷ Drive slowly and carefully on steep uphill and downhill slopes (e.g. multi-storey carparks).

▷ Avoid steep ramps.

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Storage in the Passenger Compartment

Warning!

Unsecured luggage and heavy objects may come loose during braking, rapid directional changes or in an accident and cause serious personal injury or death.

- ▷ Do not transport any heavy objects in the storage trays.
- ▷ Do not carry unsecured luggage or objects in the passenger compartment.

Additional storage possibilities

- In the door panel,
- in the door sill on the passenger side,
- in the center console,
- behind the rear seat backrests,
- extension of storage space by folding the rear seat backs forward,
- clothes hook on back of front seats,
- pocket on back of front seats (only on sports seats).



Glove compartment

Warning!

Risk of injury by the glove compartment lid in case of an accident.

- ▷ Keep the glove compartment closed while driving.

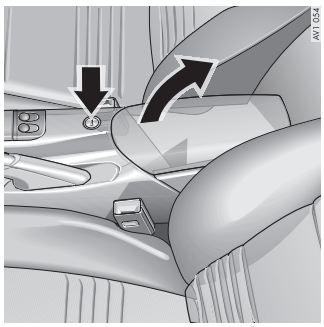
Opening

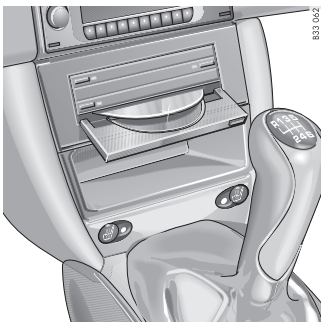
- ▷ Pull the catch and open the lid.

Locking

- ▷ Lock the catch to secure the contents against unauthorized access.

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Storage tray between the seats

Opening

▷ Press the locking knob and lift the lid.
There is a coin holder in the forward part of the storage tray.

Locking

▷ Lock the compartment to secure the contents against unauthorized access.

CD or Cassette Holder

Occupied drawers are indicated by a red window.

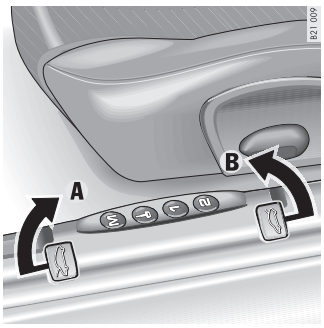
Opening drawers

▷ Push the button of the drawer you wish to open.

Closing drawers

▷ Fold the **CD** drawer up and close until it clicks shut.
Close the **cassette** drawer until it clicks shut.

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A - *Opening luggage compartment lid*
B - *Opening engine compartment lid*

Luggage Compartment Lid and Engine Compartment Lid

Unlocking

▷ With the driver's door open, operate the appropriate pull-button next to the driver's seat.
The luggage compartment or engine compartment is illuminated when the respective lid is open.
Also refer to the chapter "Load switch-off".

The luggage compartment lid can also be opened with the radio remote control.
Refer to the chapter "Keys".

Important note

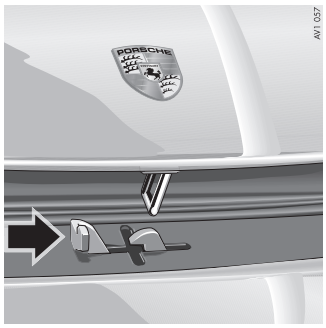
If the vehicle battery is discharged, the lids can be opened only by connecting an external electrical power source.
Please observe the chapter "Electrical system" or the description inside the fuse box cover.

Warning light

The warning lights in the instrument panel and in the on-board computer come on if the lids are not completely closed.

▷ Fully close the lid.

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Opening luggage compartment lid

Caution!

Risk of damage to luggage compartment lid or windshield wipers.

▷ Make sure that the windshield wipers are not folded out forwards when opening the luggage compartment lid.

▷ Raise lid slightly and unlatch the safety catch with the lever (arrow).

Closing luggage compartment lid and engine compartment lid

▷ Lower lid and let it fall into the lock. If necessary, push the lid with the palm of your hand in the area of the lock.

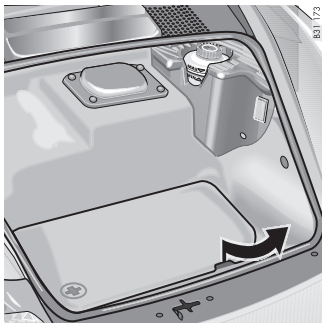
▷ Check that the lid has correctly engaged in the lock.

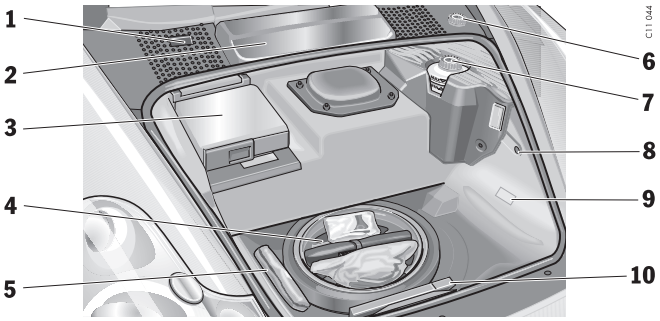
Warning!

Risk of loss of control or an accident, resulting in serious personal injury.

▷ Should you notice at any time while driving that one of the lids is not secured properly, please stop immediately in a suitable place and close it.
The front lid may fly up impairing vision.

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Luggage compartment

Removing luggage compartment floor

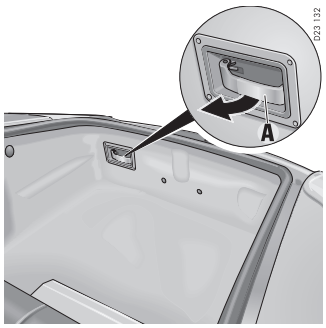
▷ Simultaneously pull the luggage compartment floor forward and up at the finger hole.

Inserting luggage compartment floor

▷ Insert luggage compartment floor in the rear guide and press it down.

1 – Vehicle identification number (VIN)
2 – Battery
3 – Compact disc changer
4 – Jack,
– Tool kit,
– Compressor for collapsible spare wheel
5 – Space for first aid kit
6 – Fluid reservoir for cleaning windows and headlights
7 – Brake-fluid reservoir
8 – Headlight adjustment and locking (under the carpet)
9 – Paint data (under the carpet)
10 – Space for warning triangle

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Luggage compartment

Trunk Entrapment

Depending on the production date, your vehicle is equipped with an internal trunk release mechanism.

A person trapped in the luggage compartment can release the lid from the inside using unlocking handle **A**.
The handle **A** is fluorescent and glows in the dark.

Warning light

The warning lights in the instrument panel and in the on-board computer light up when unlocking handle **A** is operated.

- ▷ Stop the vehicle immediately when the warning lights light up.
- ▷ Check the luggage compartment.
- ▷ Close the lid.

Function with vehicle stationary

If the luggage compartment lid is unlocked with unlocking handle **A**, the lid can be opened from the inside immediately.

Function with vehicle in motion

If the luggage compartment lid is unlocked with unlocking handle **A** when a speed of 3 km/h (2 mph) is exceeded, the warning lights in the instrument panel and in the on-board computer light up.
At the same time, the lid is unlocked and the latch striker pops into the catch-hook position. The lid lock is fully released as soon as the car slows to less than 2 mph (3 km/h), and the trapped person can open the lid immediately.

⚠ Danger!

Risk of accident.
If the warning lights in the instrument panel and in the on-board computer light up when the vehicle is in motion, the lid may impact in front of the windshield and can tear off.
You can lose control of the vehicle.

- ▷ Stop the vehicle immediately when the warning lights light up.
- ▷ Check the luggage compartment.
- ▷ Close the lid.

▷ ▷ ▷

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Note

The lid cannot be opened from the inside if the battery is disconnected or empty.
Safety reasons therefore require that you unscrew the latch striker of the lid lock if you plan to put the vehicle out of operation for an extended period.
Please consult your authorized Porsche dealer. They will advise you about the necessary measures.

Note

▷ When loading the luggage compartment, make sure that items of luggage or other objects cannot become caught on handle **A**. This could cause the luggage compartment to open unintentionally.

Porsche Communication Management (PCM)

▷ Refer to the separate operating instructions before putting the PCM into operation.

When put into operation for the first time, a distance of approx. 31 miles (50 km) must be driven in order for the navigation system to complete the process of fine calibration.
The same applies when the tires are changed (e.g. summer/snow tires) or new tires fitted.
Full location accuracy is not yet achieved during the fine-calibration process.

If the vehicle has been transported (e.g. ferry, car train), the system may take a few minutes after being switched on before it determines the current location.

Serious tire slip (e.g. spinning wheels on snow) may result in temporarily inaccurate navigation.

When the battery has been disconnected, it may take up to 15 minutes before the navigation system becomes operational again.

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Cupholder

(holder for drinks cans and cups)

▷ Keep the cupholder closed while driving.

Warning!

Risk of scalding or damage due to spilling drinks.

▷ Only use containers which fit.

▷ Never put overfull containers in the cupholder.

▷ Never use hot drinks.





Extending cupholder

▷ Press the cupholder symbol.

The cupholder can be pulled out to accommodate a second container.

Pulling cupholder out

▷ Grasp cupholder at the handle recess and pull it out.

Closing cupholder

▷ Push cupholder drawer in.

▷ Close and engage the cupholder.

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Car Telephone and Aftermarket Alarms

Important legal and safety information regarding the use of cellular telephones

Some states may prohibit the use of cellular telephones while driving a vehicle. Check the laws and regulations on the use of cellular telephones in the areas where you drive.

⚠ Danger!

Risk of an accident.
Severe personal injury or death can result in the event of an accident.
Looking away from the road or turning your attention away from your driving can cause an accident and serious or fatal injury.

When using your cellular telephone, you should always:

- ▷ Give full attention to your driving - pull off the road and park before making or answering a call if traffic conditions so require; **and**
- ▷ Keep both hands on the steering wheel - use hands-free operation (if available) - pull off the road and park before using a hand-held telephone.

It is essential to observe the instructions of the telephone manufacturer before putting the telephone into operation.

Any portable telephone or radio transmitter which is used in a Porsche must be properly installed in accordance with the technical requirements of Porsche.

The transmission power must not exceed 10 W.
The devices must possess a type approval for your vehicle and have an **"e" symbol**.

If you should require equipment with transmission power values greater than 10 W, please consult your authorized Porsche dealer for this purpose. He is familiar with the technical requirements for installing devices of this kind.

The antennas for all radios and telephones with a transmitting antenna must be externally mounted.

The improper installation of radios or telephones or use of a radio or telephone with a transmitting antenna inside the car may cause **the warning lights to come on.**

Improper installation of such equipment can create a discharged battery or excessive current draw from added equipment.

If aftermarket systems are installed by non-dealership technicians or outside the selling dealer, problems may result. Installation of aftermarket equipment is not covered under the New Car Warranty.

- ▷ Consult your authorized Porsche dealer about the installation of non Porsche approved equipment.

Reception quality

The reception quality of your car telephone will change constantly when you are driving. Interference caused by buildings, landscape and weather is unavoidable. It may become particularly difficult to hear when using the hands-free function due to external noise such as engine and wind noise.

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Car Audio Operation/Tips

For radio operation see your radio manual which is included with your on-board literature.

Also see the chapter on "Load switch-off".

FM reception

A vehicle is not an ideal place to listen to a radio.
Because the vehicle moves, reception conditions are constantly changing.
Buildings, terrain, signal distance and noise from other vehicles are all working against good reception.
Some conditions of FM may appear to be problems when they are not.

The following characteristics are completely normal for a given reception area, and they do not indicate any problem with the radio itself.

Note

Electronic accessories should only be installed by your authorized Porsche dealer.
Equipment which has not been tested and approved by Porsche may impair radio reception.

Fading and drifting

FM range is limited to about 25 miles (40 km), except for some high power stations.

If a vehicle is moving away from the desired station's transmitter, the signal will tend to fade and/or drift. This condition is more prevalent with FM than AM, and is often accompanied by distortion.
Fading and drifting can be minimized to a certain degree by careful attention to fine tuning or selection of a stronger signal.

Static and fluttering

When the line-of-sight link between a transmitter and vehicle is blocked by large buildings or mountains, the radio sound may be accompanied with static or fluttering because of the characteristic of FM.
In a similar effect, a fluttering noise is sometimes heard when driving along a tree-lined road.

This static and fluttering can be reduced by adjusting the tone control for greater bass response until the disturbance has passed.

Multipath

Because of the reflecting characteristics of FM, direct and reflected signals may reach the antenna at the same time (multipath) and cancel each other out.
As a vehicle moves through these electronic dead spots, the listener may hear a momentary flutter or loss of reception.

Station swapping

When two FM stations are close to each other, and an electronic dead spot, such as static or multipath area, interrupts the original signal, sometimes the stronger second signal will be selected automatically until the original one returns.
This swapping can also occur as you drive away from the selected station and approach another station of a stronger signal.

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Cassette tape player

Caution!

To avoid damage to cassette tape player and tapes.

- Use only cassette tapes of good quality, having no damage.
- Avoid using tapes with a total playing time longer than 90 minutes.
  Longer tapes are not recommended because of the thinner cross section of the tape.
- Be sure that the tape is not slack and that the label is firmly secured on the shell before inserting the cassette into the player.
- Have the tape firmly wound around the tape by turning the hub with a pencil or similar items. Be careful not to touch the exposed tape surface.
- When not in use, take the cassette out of the player, put it back into its case and store it away from dust, magnets and direct sunlight.
  Leaving the cassette tape on the dashboard in the sun can damage the tape.
- Keep the playback head, capstan and pinch roller clean.
- Remove tape coating residue accumulated on the head, capstan and pinch roller once or twice a month.
  A cleaning tape, which can do this, should be available in audio stores.
- Do not oil any part of the tape player and do not insert any object other than a cassette tape into the slot.

Compact disc player

Caution!

To avoid damage to compact disc player and discs.

- Use only compact discs labeled as shown, having no dirt, damage or warpage.
- Never attempt to disassemble or oil any part of the player unit.
  Do not insert any object other than a disc into the slot.
  Remember there are no user-serviceable parts inside the compact disc player.
- Do not allow the disc to sustain any fingerprints, scrapes or stickers on the surfaces. This may cause poor sound quality.
  Hold the disc only on the edge or center hole.
- When not in use, take the disc out of the player, put the disc back into its case and store it away from dust, heat, damp and direct sunlight.
  Leaving the disc on the dashboard in the sun can damage the disc.
- If the disc gets dirty, clean the disc by wiping the surfaces from the center to the outside in a radial direction with a soft cloth.
  Do not use a conventional record cleaner or anti-static record preservative.
  Disc cleaners are available in audio stores.

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Roof Transport System

Follow the separate instructions for fitting the Roof Transport System.

Fitting commercially available luggage racks is **not** possible.

The **Porsche Roof Transport System** allows the transport of various sports and hobby equipment.
Your authorized Porsche dealer will be pleased to inform you about the many uses of the Roof Transport System.

⚠ Warning!

Risk of an accident, loss of control and damage to the vehicle.

- ▷ Completely remove the Roof Transport System before using an automatic car wash.
- ▷ Fit the side support elements of the basic carrier only in conjunction with the transverse supporting pipes.
- ▷ The permissible useable load of 165 lbs (75 kg), the permissible total vehicle weight and the permissible axle loads must not be exceeded.
  See the chapter on "Weights".
  Items of luggage must not project substantially beyond the side of the load area.
  Distribute load evenly, with heavy items as low as possible.
  Every item must be fixed and secured to the basic carrier with a rope or lashing strap (do not use elastic rubber tensioners).
- ▷ Before every journey, and at regular intervals during long trips, check that Roof Transport System and load are secure.
  Retighten if necessary and secure additionally by locking.
- ▷ In the loaded state, adjust maximum speed to the nature, size and weight of the load being carried.
  In no case, however, should you drive at more than 90 mph (140 km/h).
- ▷ With the basic carrier installed and no load, do not exceed a maximum speed of 110 mph (180 km/h) since driving stability will be adversely affected.
  Adapt your driving style and speed to the changed conditions.
  Nevertheless, Porsche recommends that you do not exceed the posted speed limit.
- ▷ Driving, braking and steering behavior of the vehicle change due to the higher center of gravity and the greater wind-resistant area.
  You should adapt your driving style appropriately.

Note

Since fuel consumption and noise are increased with the Roof Transport System installed, it should not remain on the car if it is not in use.

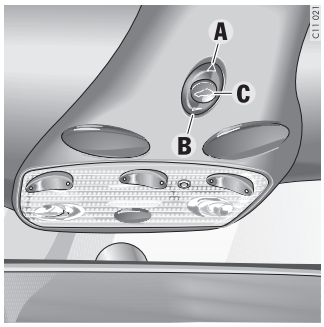
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Lifting/Sliding Roof

Warning!

Risk of injury when operating or automatically closing the lifting/sliding roof.

- ▷ Take care to ensure that nobody can be injured when the lifting/sliding roof is operated. This applies especially if the roof closes automatically.
- ▷ Always remove the ignition key when leaving the vehicle.
  Uninformed persons (e.g. children) could injure themselves by operating the lifting/sliding roof.
- ▷ In case of danger, release the button or car key immediately and operate the lifting/sliding roof in the opposite direction.



Readiness for operation

- When ignition is on (engine on or off), **or**
- when door is closed and ignition key is removed, but only until the door is first opened.

A - Opening the lifting/sliding roof

- ▷ Press back of **rocker switch** until lifting/sliding roof reaches the desired position.

One-touch operation

- ▷ Touch back of rocker switch - lifting/sliding roof opens fully to its end position.
  Stop it in any position by touching any button.

Note

The lifting/sliding roof opens until it reaches the best position in terms of wind noise. It can be opened fully, however, if you press the rocker switch again.

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B - Closing the lifting/sliding roof

▷ Press front of **rocker switch** until lifting/sliding roof reaches the desired position.

One-touch operation

▷ Touch front of rocker switch - lifting/sliding roof closes fully to its end position.
Stop it in any position by touching any button.

Closing the lifting/sliding roof automatically when the vehicle is locked

▷ Hold the car key in the door lock in locking position until the lifting/sliding roof reaches the desired position.

C - Lifting the lifting/sliding roof

▷ Press center of **rocker switch** until lifting/sliding roof reaches the desired position.

One-touch operation

▷ Touch center of rocker switch - lifting/sliding roof opens fully to its end position.
Stop it in any position by touching any button.

B - Lowering the lifting/sliding roof

▷ Press front of **rocker switch** until lifting/sliding roof reaches the desired position.

The standby function of the roof drive switches off after two hours

If the vehicle is unlocked, the lifting/sliding roof can no longer be operated after two hours (prevention of battery discharging).
The power supply is switched back on when the ignition is switched on or the engine started.

▷ ▷ ▷

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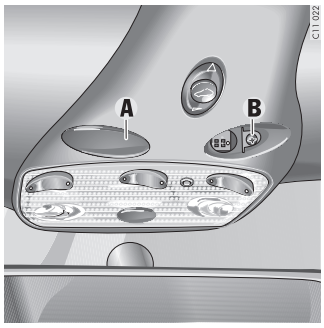
Emergency operation

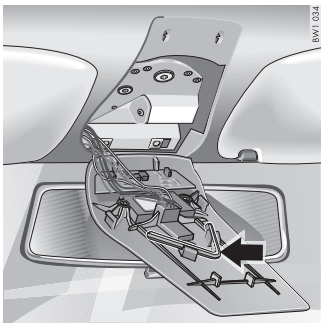
Warning!

Risk of serious personal injury and damage to the lifting/sliding roof during emergency operation.

▷ During and after emergency operation, the lifting/sliding roof may no longer be operated with the rocker switch.

Before using emergency operation, please check whether defective fuses are the cause of the malfunction.
See chapter on "Electrical system".

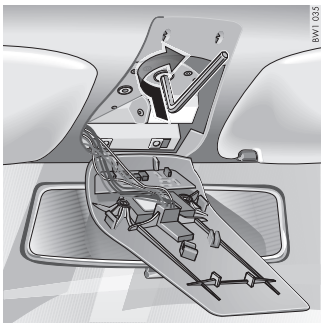




Closing the lifting/sliding roof

1. Using your finger nail or a screwdriver, carefully unclip the two covers **A** of the infrared passenger compartment monitoring system.
2. Unscrew the two screws **B**.
3. Fold down the cover of the lifting/sliding roof drive.
   Remove the Allen key (arrow) from its holder.
4. Insert the Allen key in the drive axle.

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5. Press the Allen key into the drive axle, keep it pressed and turn it clockwise until the lifting/sliding roof is closed.

6. Withdraw the Allen key.
   Close the cover and fasten the screws.

7. Please have the fault remedied at an authorized Porsche dealer.

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Shifting Gear

Gearshifting 126
Tiptronic S..... 127 – 132

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Gearshifting

The positions of the gears are shown on the gearshift lever.

Warning!

Risk of an accident.

- Always check the movement of the clutch pedal before driving and make sure that it is not obstructed by a floor mat or any other object.
- Secure the floor mat to prevent it from sliding into positions that could interfere with the safe operation of your vehicle.
  Your Porsche dealer can offer you floor mats of the correct size including a securing possibility.

To avoid damage to the clutch and transmission:

- Always depress the clutch pedal fully when changing gears.
  Make sure that the gearshift lever is completely engaged.
- Only shift into reverse when the car has come to a complete stop.



Reverse

- Depress the clutch pedal for several seconds before shifting into reverse.
  Only then move the gearshift lever to the left, overcoming the spring tension, and then to the front.

Both back-up lights come on when the transmission is put into reverse (with ignition on).

Permitted engine speed

- Change into a higher gear before the needle reaches the red mark on the tachometer, or ease off the accelerator.

If the red zone is reached during acceleration, fuel feed is interrupted.

Caution!

To avoid severe engine damage.

- Always observe the engine rpm before downshifting to a lower gear, so you do not exceed the maximum engine rpm.

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Tiptronic S

The Porsche Tiptronic is a five-speed transmission with an “Automatic” and “Manual” selection mode.

In **automatic selection mode** (selector lever position **D**), gear-changing is automatic.
You can change temporarily from automatic to manual mode using the toggle switches on the steering wheel.

In **manual selection mode** (selector lever position **M**), you change gear using the toggle switches on the steering wheel.

You can change between selector lever position **D** and **M** as you wish while driving.

Note

Take care not to operate the toggle switches on the steering wheel inadvertently in either automatic or manual mode, thereby triggering undesired gear changes.



Locking button

To prevent unintended gear shifts, the locking button in the selector lever (arrow) must be pressed to change to position **R** or **P**.

Keylock position

This position allows the ignition key to be removed only after the gearshift selector lever button is depressed and moved to position "P". This ensures that the driver engages the parking lock before leaving the vehicle and turns the ignition key to position "0", then the ignition key can be removed from the ignition switch.

Shiftlock (selector lever lock)

The shiftlock system is another feature to prevent inadvertent movement of the vehicle.

Ignition switch position 0

The selector lever (locking button) is locked.

Ignition switch position 1

With the vehicle stationary, the selector lever cannot be moved from the **P** or **N** positions, unless the brake pedal is depressed.

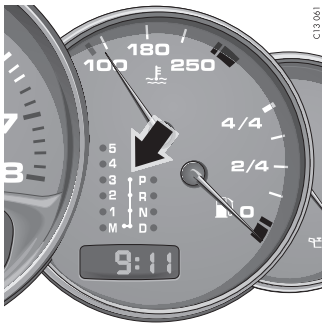
Starting the engine

The engine can be started only in selector lever position **P** or **N**.

Driving off

- ▷ Select the desired drive position (**D**, **M** or **R**) for driving off only when the engine is idling and while depressing the brake pedal.
- ▷ Since the car creeps when in gear, do not release the brake until you want to drive off.
- ▷ After selecting a gear, do not accelerate until you can feel that the gear has been selected.

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Indicator for selector lever position and engaged gear

When the engine is running, the selector lever position and engaged gear are indicated.

If the selector lever is between two positions:

- The selector lever position in the instrument cluster flashes, **and**
- the warning "selector lever not engaged" appears on the display of the on-board computer.

▷ Engage the selector lever correctly.

If there is a fault in the transmission:

- **4th gear** flashes on the display.
- The warning "Tiptronic emergency run" appears in the on-board computer.
  Also refer to "Emergency program".

▷ To remedy the fault, please consult an authorized Porsche dealer immediately.

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Selector Lever Positions

P – Parking lock

In selector lever position **P**, the driven wheels are mechanically locked.

▷ Select only when car has been stopped.

▷ Engage parking lock **after** applying the handbrake and release it **before** releasing the handbrake.

The **ignition key** can be withdrawn only in selector lever position **P**.

R – Reverse

▷ Select only when car has been stopped and the brake is applied.

N – Neutral

Selector lever position **N** must be selected for towing or in car washes, for example.

▷ Select the desired position for moving off (**D**, **M** or **R**) only when the engine is idling and while depressing the brake pedal.

▷ Select position **N** while driving **only** if the car is threatening to skid in slippery conditions. Otherwise **N** should not be selected while driving.

D – Automatic selection mode

▷ Select position **D** for "normal" driving. The gears are shifted automatically according to the accelerator position and speed.

Depending on the way the vehicle is driven and on the resistance (e.g. uphill), the gear-changing points are shifted towards higher or lower engine-speed ranges.
The accelerator position, driving speed, engine speed, longitudinal and lateral acceleration and the road profile all have an influence on the gear-changing characteristic.

Unwanted upward shifts, e.g. before bends, are prevented by swiftly releasing the accelerator pedal.

Depending on lateral acceleration, upward shifts on bends are not made until the engine-speed limit is reached.

Under braking, and depending on the amount of deceleration, the Tiptronic shifts down earlier.
For subsequent cornering, the right gear is engaged when pressure is applied to the brakes before the bend.
The bend is taken in the right gear, and when you accelerate out of the bend you do not have to shift down.

Driving off

In **2nd gear**, the vehicle drives off with the throttle only slightly open.
Drive off in **1st gear** with the throttle open wider or when the engine is cold.

▷ ▷ ▷

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Shifting gear on the steering wheel

With the toggle switches on the steering wheel, you can change temporarily from automatic selection mode **D** to manual mode **M**.

Advantages:
- Shifting down before bends and on entering built-up areas.
- Shifting down on downward slopes (engine braking)
- Shifting down for brief spurts of acceleration
- Selecting 1st gear for moving off

The manual selection mode remains engaged:
- for cornering (depending on the lateral acceleration) and overrunning,
- when the vehicle is stationary (e.g. at a junction).

The system leaves manual selection mode:
- automatically after approx. 8 seconds (unless cornering or overrunning),
- if you depress the accelerator to kickdown,
- after moving off.

Temporary change-down

Conditions:
Speed is higher than approx. 33 mph (54 km/h).

▷ Depress accelerator quickly.
The Tiptronic changes temporarily to the sportiest gear-changing map, i.e. to the highest possible gear-changing points. Correspondingly, the transmission shifts down immediately by one or two gears.

Ending the function:

▷ Release the accelerator markedly (by approx. 25%).

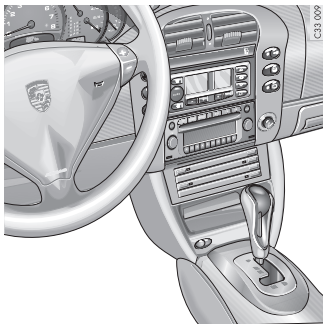
Kickdown

The kickdown function is active in selector lever position **D**, even if you temporarily change to manual mode **M** using the toggle switches on the steering wheel.

▷ For optimum acceleration, e.g. when overtaking, depress the accelerator pedal beyond the full-throttle point (kickdown).

The transmission shifts down depending on the speed of travel and engine speed.
Upward shifts occur at the highest possible engine speeds.
These gear-changing speeds remain active until the accelerator is released to approx. 80% of the wide open throttle position.

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M - Manual Selection Mode

The currently selected gear is retained if you change from **D** to **M**.

If you shift from **M** to **D**, the gear-changing map suitable for your current driving style is selected and the appropriate gear is selected.

⚠ Warning!

The kickdown function is not active in manual selection mode "M".

▷ Therefore shift down manually when accelerating (e.g. to overtake).

Two toggle switches in the upper steering-wheel spokes let you comfortably and reliably select the five forward gears.

Shifting up

▷ Press upper part (+) of a toggle switch.

Shifting down

▷ Press lower part (–) of a toggle switch.

Depending on driving speed and engine speed, you can shift up or down at any time.
Gear changes which would exceed the upper or lower engine-speed limit are not executed by the controller.

You can shift down two gears at once by quickly pressing the toggle switches twice.

If the engine-speed limit is reached, an automatic upward shift is performed or, just before idling speed is reached, a downward shift is performed.

▷ Select an appropriately low gear on upward and downward slopes.
This will ensure optimum use of engine power and engine braking.

If manual mode fails, the control electronics switch to automatic mode. In this event, the instrument cluster will display selector lever position **D**.

▷ To remedy the fault, please consult an authorized Porsche dealer.

▷ ▷ ▷

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Slip monitoring

When the speeds of rotation of the front and rear axles differ by more than the maximum permissible value, integrated slip monitoring shifts up to the next gear.
This increases driving stability on a slippery surface.

Note

Slip monitoring is also deactivated when Porsche Stability Management (PSM) is switched off.

Stopping

- ▷ For a brief stop, e.g. at a traffic light, leave the selector lever in drive position and hold the vehicle with the brake pedal.
- ▷ For a longer stop with the engine running, select position **N** (neutral).
- ▷ Do not hold the car on a slope using the accelerator. Use the brake pedal or the handbrake instead.
- ▷ Before leaving the vehicle, always apply the handbrake and move the selector lever to position **P**.

Parking

- ▷ Go easy on the accelerator.
- ▷ When parking or manoeuvering in a small space, control the speed by careful use of the footbrake.

Driving in winter

In wintery road conditions it is advisable to take steep inclines in manual mode. This prevents the occurrence of gear changes that could cause wheelspin.

Tow-starting, towing

Refer to the chapter “Towing”.

Emergency program

A transmission fault is indicated by the following symptoms:

- **4th gear** flashes on the display of the instrument cluster.
- The warning “Tiptronic emergency run” appears in the on-board computer.
- The transmission no longer shifts.

⚠ Warning!

Reverse gear lock monitoring is disabled in the emergency running program.
Damage to the vehicle may result as well as loss of control, if the vehicle is moving forward fast enough to cause rear wheel lockup.

- ▷ Do not shift into **R** while the vehicle is moving forward.

Proceed as follows in the event of a transmission fault:

1. Stop in a safe place.
2. Move selector lever to position **P**, switch the ignition off and wait for 10 seconds.
3. Start the engine.
   2nd gear in selector position **D** and reverse gear **R** are now available and will allow you to reach the nearest authorized Porsche dealer.
4. To remedy the fault, please consult an authorized Porsche dealer immediately.

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Maintenance, Car Care

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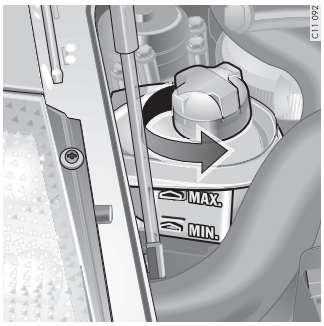
Exercise Extreme Caution when Working on your Vehicle

Warning!

Ignoring the following instructions may cause serious personal injury.

- The engine compartment of any motor vehicle is a potentially hazardous area. If you are not fully familiar with proper repair procedures, do not attempt the adjustments described on the following pages.
  This caution applies to the entire vehicle.
- Only work on your vehicle outdoors or in a well ventilated area.
- Ensure that there are no open flames in the area of your vehicle at any time when fuel fumes might be present. Be especially cautious of such devices such as hot water heaters which ignite a flame intermittently.
- Before working on any part in the engine compartment, turn the engine off and let it cool down sufficiently. Hot engine compartment components can burn skin on contact.
- Be alert and cautious around engine at all times while the engine is running.
  If work has to be performed with the engine running, always set the parking brake, and make sure the shift lever is in neutral or the selector lever is in position "P" or "N".
- In particular, be very careful to ensure that items of clothing (ties, shirt, sleeves etc.), jewelry, long hair, hand or fingers cannot get caught in the engine-compartment blower, fan, belts or other moving parts.
  The radiator and radiator fans are in the front of the car.
  The engine-compartment blower is mounted on the engine compartment lid.
  The engine-compartment blower always runs when the ignition is switched on. After the ignition is switched off, the engine compartment and coolant temperatures are monitored for approx. 20 minutes.
  During this period, and depending on temperature, the engine-compartment blower and radiator fans may continue to run or start to run.
  Carry out work in these areas only with the engine off and exercise extreme caution.
- Your Porsche is equipped with an electronic ignition system. When the ignition is on, high voltage is present in all wires connected with the ignition system; therefore, exercise extreme caution when working on any part of the engine while the ignition is on or the engine is running.
- Always support your car with safety stands if it is necessary to work under the car. The jack supplied with the car is not adequate for this purpose.
- When working under the car without safety stands but with the wheels on the ground, make sure the car is on level ground, the wheels are blocked, and that the engine cannot be started.
  Remove the ignition key.
- Do not smoke or allow an open flame around the battery or fuel.
  Keep a fire extinguisher in close reach.
- Incomplete or improper servicing may cause problems in the operation of the car. If in doubt about any servicing, have it done by your authorized Porsche dealer.
  Improper maintenance during the warranty period may affect your Porsche warranty coverage.
- Supplies of fluids, e. g. engine oil, brake fluid or coolant, are hazardous to your health.
  Keep these fluids out of children's reach and dispose of them in accordance with the appropriate regulations.
- Some countries require additional tools and special spare parts to be carried.
  Please make enquiries before driving abroad.

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Coolant Level

Follow the instructions in the "Cautions" chapter.

The cooling system is filled at the factory with a permanent coolant.
It provides year-round protection from corrosion and freezing down to – 31°F/– 35°C (Nordic countries – 40°F/– 40°C).

Only use antifreeze authorized by Porsche.

Checking coolant level

The expansion tank with its filler orifice is in the engine compartment.

▷ Check the coolant level regularly through the transparent expansion tank.

When the engine is cold and the car is level the fluid level must lie between the "Min." and "Max." markings.

Topping off coolant

⚠ Warning!

Danger of serious personal injury from scalding. Coolant is hazardous to your health, and may be fatal if swallowed.

▷ Do not open the cap of the expansion tank while the engine is hot.

▷ Allow the engine to cool down before opening the cap and protect your hands, arms and face from any possible escape of hot coolant.

▷ Keep coolant out of children's reach.

▷ Also, keep coolant away from your pets. They can be attracted to it should there be a spill, or to used coolant left in an open container. Coolant can be deadly to pets if consumed.

1. Switch engine off and let it cool.
   See the chapter on the "Cooling system".

2. Cover the expansion tank cap with a thick rag.
   Open cap slowly and carefully and allow overpressure to escape.
   Then unscrew cap completely.

3. Only add a mixture of antifreeze and water in equal parts, and do not exceed the "Max." mark.

   Antifreeze in coolant:
   50% gives protection down to – 31°F/– 35°C
   60% gives protection down to – 58°F/– 50°C

4. Screw cap firmly on.

If in an emergency pure water has been added, the mix ratio must be corrected at an authorized Porsche dealer.

Marked loss of coolant indicates leakage in the cooling system.
The cause should immediately be remedied at an authorized Porsche dealer.

▷ ▷ ▷

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Engine-compartment blower, radiator fans

The radiators and radiator fans are in the front of the car.
The engine-compartment blower is mounted on the engine compartment lid.

⚠ Warning!

Risk of injury.
The engine-compartment blower always runs when the ignition is switched on. After the ignition is switched off, the engine compartment and coolant temperatures are monitored for approx. 20 minutes.
During this period, and depending on temperature, the engine-compartment blower and radiator fans may continue to run or start to run.

▷ Carry out work in these areas only with the engine off and exercise extreme caution.

Engine Oil

Engine oil consumption

It is normal for your engine to consume oil.
The rate of oil consumption depends on the quality and viscosity of oil, the speed at which the engine is operated, the climate, road conditions as well as the amount of dilution and oxidation of the lubricant.

If the vehicle is used for repeated short trips, and consumes a normal amount of oil, the engine oil measurement may not show any drop in the oil level at all, even after 600 miles (1000 km) or more. This is because the oil is gradually becoming diluted with fuel or moisture, making it appear that the oil level has not changed.
The diluting ingredients evaporate out when the vehicle is driven at high speeds, as on an expressway, making it then appear that oil is excessively consumed after driving at high speeds.

If the conditions you drive your vehicle in are dusty, humid, or hot, the frequency of the oil change intervals should be greater.

If the vehicle is driven at a high rate of speed, climatic conditions are warm, and the load is high, the oil should be checked more frequently, as driving conditions will determine the rate of oil consumption.

- The engine in your vehicle depends on oil to lubricate and cool all of its moving parts.
  Therefore, the engine oil should be checked regularly and kept at the required level.
- Make it a habit to have the engine oil level checked with every fuel filling.
- The oil pressure warning light is not an oil level indicator.
  The oil pressure warning light indicates serious engine damage may be occuring when lit, if engine rpm is above idle speed.

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Engine Oil Level

▷ Regularly check the oil level using the on-board computer each time before refuelling. Refer to the chapter “On-board computer”.

The difference between the min. and max. marks on the segment display of the on-board computer is approx. 1.5 liters (1.6 quarts).
One segment of the display corresponds to a quantity of approx. 0.25 liter (0.26 quart).

Topping off engine oil

⚠ Warning!

Risk of burning from hot parts in engine compartment. Risk of injury by rotating parts. The engine compartment blower on the engine compartment lid can start up even with the engine off.

▷ Exercise extreme caution when working on the engine compartment.
Follow the instructions in the chapter “Notes on maintenance”.

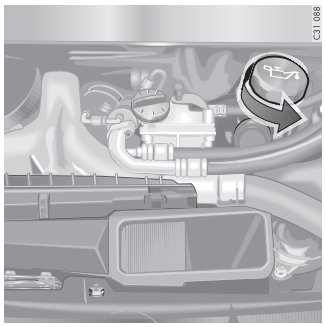
▷ Top off engine oil only with the engine off.

Engine oil is hazardous to your health and may be fatal if swallowed.

▷ Keep engine oil out of children’s reach.

Used engine oil contains chemicals that have caused cancer in laboratory animals.

▷ Always protect your skin by washing thoroughly with soap and water.



1. The on-board computer indicates how much oil must be added.
2. Switch off the engine.
   Unscrew cap of the oil filler opening.
3. Add at most half a liter of engine oil at a time.
4. Measure oil level again.
   Add more engine oil if necessary.
   Never add more engine oil than required to reach the max. mark.
5. Close cap of the oil filler opening.

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Engine Oil Recommendation

Recommended oil viscosity ranges dependent on ambient temperatures:

Ambient temperatures (seasonal)	SAE Viscosity Range engine oils
generally higher than 50°F/10°C	0 W-40 5 W-40 5 W-50
generally lower than 50°F/10°C	0 W-40 5 W-40

Use only engine oils labelled as API SH or SJ and viscosity grades of SAE 0 W-40, 5 W-40 or higher.

Preferably you should use synthetic or semisynthetic engine oils.
If in doubt ask your authorized Porsche dealer for Porsche tested and approved all-season oils.

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Oil change

The engine oil has to be changed at the intervals listed in your **Maintenance Schedule**.

See "Capacities".

We recommend that you have the engine oil changed at your Porsche dealer, who has the required oils and the necessary filling equipment.

If you suspect an oil leak in the engine have your dealer check it out immediately.

All current engine oils are compatible with each other, i.e. when making an oil change it is not necessary to flush the engine if you wish to use a different brand or grade of oil.
Since, however, each brand of oil has a special composition, you should, if possible, use the same oil brand if it becomes necessary to top off between oil changes.

Porsche engines have long intervals between oil changes. You can make best use of these long oil change intervals by using multigrade oils since these are largely independent of seasonal fluctuations in temperature.

If your vehicle is used frequently in stop-and-go traffic in cold weather, the engine will not always be properly warmed up.
Condensation from products of combustion may accumulate in the oil. In this case, it is advisable to change the oil more frequently so that your engine once again has 100 % efficient engine oil.

Engine oil performance class

Engine oil is not only a lubricant, but also serves to keep the engine clean, to neutralize the dirt which penetrates into the engine through combustion and to protect the engine against corrosion.
To perform these functions, the oil is provided with additives which have been specially developed for these functions.
The efficiency of an oil is expressed, for example, by the API, ILSAC or ACEA classifications.

Use only engine oils with the classification API SH or SJ, or ILSAC GF 3, or ACEA A3 (Europe).

Viscosity

Like all liquids, engine oil is viscous when cold, and thin-bodied when warm. The viscosity of an oil is expressed by its SAE class. For cold viscosity (measured at temperatures below 32°F/0°C) the SAE class is given as a number and the letter "W" (as in winter), for hot viscosity (measured at 212°F/100°C) the SAE class is given only as a number.

The viscosity of an oil is, therefore, always the same if it has the same number of an SAE class.

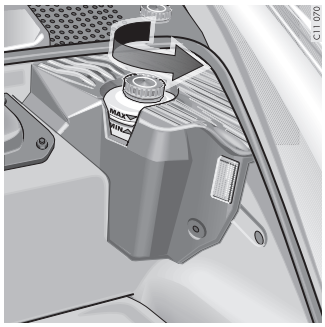
E.g.: A 5 W-40 oil and a 5 W-50 oil have the same viscosity when cold (below 0°C); when hot (at 212°F/100°C) the oil with the number 40 is thinner than the oil with the number 50.

Oils with two viscosities are called multigrade oils; oils with only one viscosity are termed single-grade oils.

Single-grade oils can not be used in your engine.

The viscosity of the engine oil for your Porsche has to be chosen according to the ambient temperature given in the engine oil recommendation table.

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Brake Fluid Level

Follow the instructions in the "Cautions" chapter.

Use only new (unused) Original Porsche brake fluid.

⚠ Warning!

Brake fluid is hazardous to your health, and may be fatal if swallowed.
Brake fluid also attacks paintwork.

- ▷ Keep brake fluid out of children's reach.
- ▷ Take care while topping off brake fluid not to soil the luggage compartment or items of luggage.

Checking the brake fluid level

The reservoir for the hydraulic braking system is in the luggage compartment.

- ▷ Check the brake-fluid level regularly at the transparent reservoir.

The fluid level should always lie between the "Min." and "Max." marks.

A slight decrease in the fluid level due to wear and automatic readjustment of the disc brakes is normal.
If, however, the fluid level falls markedly or below the "Min." mark, the braking system may have developed a leak.

- ▷ Have the braking system checked immediately at an authorized Porsche dealer.

Changing the brake fluid

Brake fluid absorbs moisture from the air over time. This accumulation of water lowers the boiling point and, under certain operating conditions, can affect the braking action.
Therefore have the brake fluid changed in accordance with the change intervals stated in the brochure "Maintenance".

Warning light USA

Warning light Canada

The brake-fluid warning lights in the instrument panel and on-board computer indicate:

- brake-fluid level too low,
- in conjunction with large pedal travel, a braking-circuit failure.

If the warning lights should light up while driving:

- ▷ Stop immediately in a suitable place.
- ▷ Do not continue driving.
  Please have the fault remedied at your nearest authorized Porsche dealer.

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Fuel Economy

Fuel economy will vary depending on where, when and how you drive, optional equipment installed, and the general condition of your car.
A car tuned to specifications and correctly maintained, will help you to achieve optimal fuel economy.

- Have your vehicle tuned to specifications.
  Air cleaner should be dirt free to allow proper engine "breathing".
  Battery should be fully charged.
  Wheels should be properly aligned.
  Tires should be inflated at correct pressure.
- Always monitor your fuel consumption.
- Drive smoothly, avoid abrupt changes in speed as much as possible.
- Avoid jack rabbit starts and sudden stops.
- Do not drive longer than necessary in the lower gears. Shifting into a higher gear early without lugging the engine will help save fuel.
- Prolonged "warm up" idling wastes gas. Start the vehicle just before you are ready to drive. Accelerate slowly and smoothly.
- Switch off the engine if stationary for longer periods.
- Any additional weight carried in the vehicle reduces fuel economy. Always keep cargo to a minimum and remove all unnecessary items.
- Organize your trips to take in several errands in one trip.
- All electrical accessories contribute to increased fuel consumption.
- Only switch on the air conditioning when necessary.
- Do not drive with the Roof Transport System mounted unless you need it.

The EPA estimated m.p.g. is to be used for comparison purposes, actual mileage may be different from the estimated m.p.g., depending on your driving speed, weather conditions and trip length. Your actual highway mileage will probably be less than the estimated m.p.g.

- Please observe all local and national speed limits.

Operating Your Porsche in other Countries

Government regulations in the United States and Canada require that automobiles meet specific emission regulations and safety standards. Therefore, cars built for the U.S. and Canada differ from vehicles sold in other countries.

If you plan to take your Porsche outside the continental limits of the United States or Canada, there is the possibility that

- unleaded fuel may not be available;
- unleaded fuel may have a considerably lower octane rating. Excessive engine knock and serious damage to both engine and catalytic converters could result;
- service may be inadequate due to lack of proper service facilities, tools or diagnostic equipment;
- replacement parts may not be available or very difficult to get.

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

If you purchased your Porsche abroad and want to bring it back home, be sure to find out about shipping and forwarding requirements, as well as current import and customs regulations.

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Fuel

Warning!

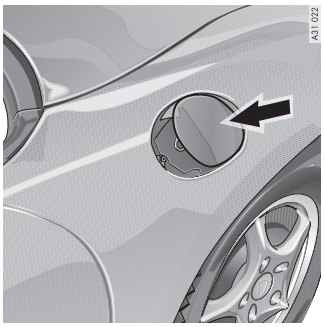
Fuel is highly flammable and harmful to health.

- ▷ Fire, open flame and smoking are prohibited when handling fuel.
- ▷ Avoid contact with skin or clothing.
- ▷ Do not inhale fuel vapors.

To prevent damage to the emission control system and engine:

- ▷ Never drive the tank completely out of fuel.
- ▷ Avoid high cornering speeds after the warning lights have come on.

Follow the instructions in the "Fuel Economy", "Emission Control System" and "Fuel level gauge" chapters.

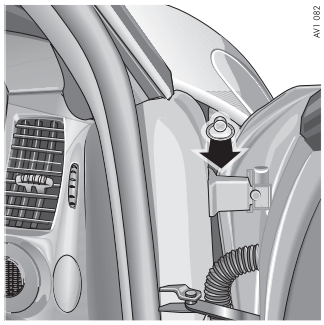


Opening the filler flap

The filler opening is under the filler flap in the front right fender.

- ▷ With the vehicle unlocked, press on the front part of the filler flap (arrow) to open the flap.

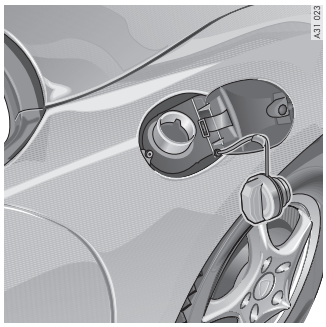
The filler flap is centrally locked along with the other locks.



If there is a defect in the automatic unlocking system:

- ▷ Open the passenger door.
- ▷ Pull the ring in the right-hand door aperture (arrow).

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Refuelling

Fuel tank capacity is listed under "Capacities". Porsche does not recommend the use of fuel additives.

1. **Important:** Stop the engine and switch off the ignition.
2. Slowly unscrew the tank cap.
   Hang the tank cap on the plastic strap of the filler flap.
3. Insert fuel-hose nozzle fully into the filler neck with the handle of the fuel-hose nozzle facing down.
4. Do not add further fuel once the correctly operated automatic fuel-hose nozzle has switched off.
   Fuel could spray or could run over in warm temperatures.
5. Replace the tank cap immediately after refuelling and turn it until you hear it and feel it engage.

If you lose the tank cap, you must replace it only with an original part to reduce the possibility of a fire in the event of a collision.

Check engine warning light

If the warning lights in the instrument panel and on-board computer come on and remain on while driving, it suggests:

- an improperly fastened tank cap **or**
- refuelling with engine running.

Fuel Recommendations

Your Porsche is equipped with catalytic converters and must use **UNLEADED FUEL ONLY**.

Your engine is designed to provide optimum performance and fuel economy using unleaded premium fuel with an octane rating of **98 RON (93 CLC or AKI)**. Porsche therefore recommends the use of these fuels in your vehicle.

Porsche also recognizes that these fuels may not always be available. Be assured that your vehicle will operate properly on unleaded premium fuels with octane numbers of at least **95 RON (90 CLC or AKI)**, since the engine's "Electronic Oktane™ knock control" will adapt the ignition timing, if necessary.

The use of unleaded fuel only is critically important to the life of the catalytic converters. Deposits from leaded fuels will ruin the converters and make it ineffective as an emission control device.

Cars with catalytic converters have a smaller fuel tank opening, and gas station pumps have smaller nozzles. This will prevent accidental pumping of leaded fuel into cars with catalytic converters.

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Unleaded fuels may not be available outside the continental U.S. and Canada. Therefore, we recommend you do not take your car to areas or countries where unleaded fuel may not be available.

Octane ratings

Octane rating indicates a fuel's ability to resist detonation. Therefore, buying the correct octane gas is important to prevent engine "damage".

The RON octane rating is based on the research method. The CLC (U.S. Cost of Living Council octane rating) or AKI (**a**nti**k**nock **i**ndex) octane rating usually displayed on U.S. fuel pumps is calculated as research octane number plus motor octane number, divided by 2, that is written as:

$$\frac{RON+MON}{2} \quad \text{or} \quad \frac{R+M}{2}$$

The CLC or AKI octane rating is usually lower than the RON rating:

For example: 95 RON equals 90 CLC or AKI

Fuels containing alcohol and ether

Some areas of the U.S. require oxygenated fuels during certain portions of the year. Oxygenated fuels are fuels which contain alcohols (such as methanol or ethanol) or ether (such as MTBE).

Under normal conditions, the amount of these compounds in the fuel will not affect driveability.

You may use oxygenated fuels in your Porsche, provided the octane requirements for your vehicle are met. We recommend, however, to change to a different fuel or station if any of the following problems occur with your vehicle:

- Deterioration of driveability and performance.
- Substantially reduced fuel economy.
- Vapor lock and non-start problems, especially at high altitude or at high temperature.
- Engine malfunction or stalling.

Fuels containing MMT

Some North American fuels contain an octane enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT).

If such fuels are used, your emission control system performance may be negatively affected.

The check engine warning lights on your instrument panel may turn on.
If this occurs, Porsche recommends you stop using fuels containing MMT.

Portable Fuel Containers

⚠ Danger!

Portable fuel containers, full or partially empty, may leak causing an explosion, or result in fire in case of an accident.

▷ Never carry additional fuel in portable containers in your vehicle.

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Emission Control System

In the interest of clean air

Pollution of our environment has become a problem that is of increasing concern to all of us. We urge you to join us in our efforts for cleaner air in controlling the pollutants emitted from the automobile.

Porsche has developed an emission control system that controls or reduces those parts of the emission that can be harmful to our environment. Your Porsche is equipped with such a system.

Porsche warrants the Emission Control System in your new car under the terms and conditions set forth in the Warranty Booklet.

You, as the owner of the vehicle, have the responsibility to provide regular maintenance service for the vehicle and to keep a record of all maintenance work performed. To facilitate record keeping, have the service performed by authorized Porsche dealers. They have Porsche trained technicians and special tools to provide fast and efficient service.

To assure efficient operation of the Emission Control System:

- Have your vehicle maintained properly and in accordance with the recommendations described in your Maintenance Booklet.
  Lack of proper maintenance, as well as improper use of the vehicle, will impair the function of the emission control system and could lead to damage.
- Do not alter or remove any component of the emission control system.
- Do not alter or remove any device, such as heat shields, switches, ignition wires, valves, etc., which are designed to protect your vehicle's emission control system.
  In addition to serious engine damage, this can result in a fire if excess raw fuel reaches the exhaust system.
- Do not continue to operate your vehicle if you detect engine misfire or other unusual operating conditions.

Parking

⚠ Warning!

Danger of fire.

- Do not park or operate the vehicle in areas where the hot exhaust system may come in contact with dry grass, brush, fuel spill or other flammable material.
- If your car catches on fire for any reason, call the fire department.
  Do not endanger your life by attempting to put out the fire.

Undercoating

⚠ Warning!

Danger of fire and serious personal injuries.

- Do not apply additional undercoating or rustproofing on or near the exhaust manifold, exhaust pipes, catalytic converters or heat shields. During driving the substance used for undercoating could overheat and ignite.

▷ ▷ ▷

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How Emission Control Works

When an automobile engine is running, it uses energy generated through the combustion of a mixture of air and fuel. Depending on whether a car is driven fast or slowly or whether the engine is cold or hot, some of the fuel (hydrocarbons) may not be burned completely, but may be discharged into the engine crankcase or exhaust system. Additonal hydrocarbons may enter the atmosphere through evaporation of fuel from the fuel tank. These hydrocarbons (HC), when released into the air, contribute to undesirable pollution.

In addition, carbon monoxide (CO) and oxides of nitrogen (NOx) contribute to engine emissions. They, too, are formed during the combustion process and discharged into the exhaust system.

To reduce these pollutants, your Porsche is equipped with a precisely calibrated fuel injection system to assure a finely balanced air/fuel mixture under all operating conditions.

Oxygen sensor

The oxygen sensor, installed in the exhaust pipe continuously senses the oxygen content of the exhaust and signals the information to an electronic control unit. The control unit corrects the air/fuel ratio, so the engine always receives an accurately metered air/fuel mixture.

Crankcase ventilation

Through crankcase ventilation, undesirable emissions from the engine crankcase are not permitted to reach the outside atmosphere. These emissions are recirculated from the crankcase to the air intake system. From here the emissions mix with the intake air and are later burned in the engine.

Catalytic converters

The catalytic converters are efficient "clean-up" devices built into the exhaust system of the vehicle. The catalytic converters burn the undesirable pollutants in the exhaust gas before it is released into the atmosphere.

The exclusive use of unleaded fuel is critically important for the life of the catalytic converters. Therefore, only unleaded fuel must be used.

The catalytic converters will be damaged by:

- push or tow starting the vehicle
- misfiring of the engine
- turning off the ignition while the vehicle is moving or
- driving until the fuel tank is completely empty
- by other unusual operating conditions.

▷ Do not continue to operate your vehicle under these conditions, since raw fuel might reach the catalytic converters. This could result in overheating of the converters. Federal law prohibits use of leaded fuel in this car.

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Fuel Evaporation Control

Fuel tank venting

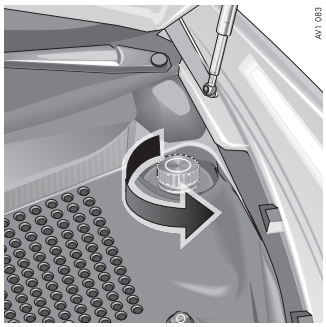
The evaporation chamber and the carbon canister prevent fuel from escaping to the atmosphere at extreme high outside temperatures, when driving abruptly around curves and when the car is parked at an incline or in any other nonlevel position.

Vapor control system and storage

When the fuel tank is filled, vapors are collected in the evaporation chamber by a vent line leading the vapors to the carbon canister where they are stored as long as the engine does not run.

Purge system

When the engine is running, the fuel vapors from the canister will be mixed with fresh air from the ambient air of the canister. This mixture will be directed to the intake air housing by the tank vent line, mixed with the intake air and burned during normal combustion.



Washer Fluid

The reservoir, with a blue screw cap, is in the luggage compartment, to the rear left.
Capacity: approximately 6.9 quarts (6.5 liters).

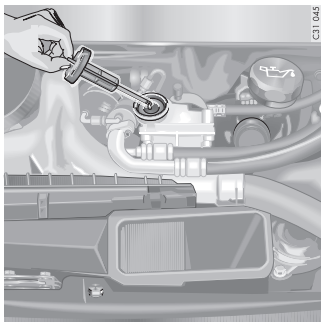
Clean water is generally not enough to clean the windshield and headlights.
It is advantageous to add a winter cleaner giving antifreeze protection or a suitable summer cleaner, depending on the season. Follow the instructions for the mixing ratio.

- ▷ Do not use engine coolant anti-freeze or any other solution that can damage the car's paint, in the washer reservoir.
- ▷ Please note all the information on the container of the cleaning agent.

Warning light

The warning lights in the instrument panel and on-board computer light when approximately 0.5 liter is left in the reservoir.

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Power Steering and Clutch

Power steering and clutch actuation are assisted by hydraulic auxiliary forces.
The hydraulic fluid reservoir is located in the engine compartment.

Note

The flow noise heard at full steering lock is design-related and does not indicate a defect in the steering system.

⚠ Warning!

Risk of accident.
When the engine is stopped (e.g. when on tow) or the hydraulic system fails, there is no assistance for steering or for clutch actuation.
Therefore, substantially more force will have to be exerted in order to steer or to actuate the clutch.

- ▷ Exercise great care when being towed.
- ▷ Have the fault remedied at your nearest authorized Porsche dealer.

Checking hydraulic fluid

Follow the instructions in the "Cautions" chapter.

Only use hydraulic fluid authorized by Porsche.
Specification: see chapter on "Capacities".

Check the fluid level with the engine stopped and **cold** (approximately 68°F/20°).

1. Start the engine and let it idle for approx. 20 seconds.
   Switch off the engine.
2. Open the engine compartment lid.
3. Open the reservoir cap.
4. Wipe measuring rod.
   Close cap and reopen. The fluid level should lie in the area below the "Cold" marking.
   Add hydraulic fluid if necessary.
5. Close cap carefully.
   Close engine compartment lid.

Noticeable loss of fluid indicates leakage in the system.
The cause should be remedied immediately at an authorized Porsche dealer.

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Air Filter

A dirty air filter not only reduces engine performance, but can lead to premature engine wear.

Regular filter replacement is part of the routine maintenance service.

▷ In dusty conditions, check the filter element more frequently and replace if necessary.

Particle Filter

The fresh air passing through the particle filter into the passenger compartment is virtually free of dust and pollen.

▷ If the outside air is polluted by exhaust fumes, press the circulating-air button.

A dirty filter can be the cause of reduced air flow:

▷ Have filter replaced by your authorized Porsche dealer.

Regular filter replacement is part of the routine maintenance service.

Automatic Transmission Fluid

The torque converter and the transmission are lubricated with Automatic Transmission Fluid (ATF). The final drive requires transmission oil. See "Capacities".

Do not tow the car or run the engine without ATF in the transmission. The automatic transmission may be damaged by even a tiny speck of dirt, only a clean funnel or spout must be used when adding ATF.

The ATF and transmission oil has to be checked and changed at the intervals listed in your Maintenance Schedule.

We recommend that you have the ATF and transmission oil changed at your Porsche dealer, who has the required lubricants and the necessary filling equipment.

If you suspect an oil leak in the transmission, have your authorized Porsche dealer check it out immediately.

Manual Transmission Oil

The transmission oil has to be checked and changed at the intervals listed in your Maintenance Schedule. See "Capacities".

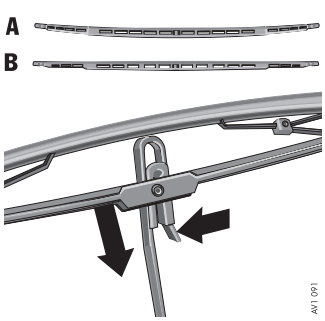
We recommend that you have the transmission oil changed at your Porsche dealer, who has the required lubricants and the necessary filling equipment.

If you suspect an oil leak in the transmission, have your authorized Porsche dealer check it out immediately.

Power Measurements

Power measurements on dynamometers are not approved by Porsche.

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A - *Passenger's side*
B - *Driver's side*

Wiper Blades

▷ When wiper performance deteriorates, replace the wipers.

▷ Follow the instructions in the "Car Care" chapter.

⚠ Caution!

Risk of damage if the wiper arm accidentally falls back on to the window.

▷ Always hold the wiper arm securely when replacing the wiper blade.

Risk of damage if wiper blades that are frozen in place are loosened improperly.

▷ Thaw the wiper blades before loosening them.

1. Pull out ignition key.
   Fold wiper arm away from the window.

2. Press together the plastic spring of the wiper blade (right arrow).
   Pull wiper blade out of wiper arm.

3. Insert new wiper blade and ensure it engages.
   Ensure that the new wiper blade goes into the same position (direction of spoiler) in the wiper arm and engages.

4. Carefully fold wiper arm back on to the window.

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Car Care Instructions

Follow the instructions in the "Cautions" chapter.

Regular and correct care helps to maintain the value of your car and is also a precondition for the New Vehicle Warranty and the Anti Corrosion Warranty.

Your authorized Porsche dealer has specially developed car-care products from the Porsche program available either singly or as complete car-care sets. They will be pleased to help you select suitable products.

Whether you use Porsche products or other commercially available cleaning agents first make sure of their correct application.

A Porsche that is well-cared for can look like new for years. It all depends on the amount of care the owner is willing to give the car.

⚠ Warning!

Risk of serious personal injury or damage to the vehicle or property.
Cleaning agents may be hazardous to your health.
Most chemical cleaners are concentrates which require dilution. High concentrations might cause problems ranging from irritation to serious injury as well as damage to your vehicle.

- ▷ Keep cleaning agents out of reach from children.
- ▷ Observe all caution labels.
- ▷ Always read directions on the container before using any product. These directions may contain information necessary to avoid personal injury.
- ▷ Do not use fuel, kerosene, naphtha, nail polish remover or other volatile cleaning fluids. They may be toxic, flammable or hazardous in other ways. Only use spot removing fluids in a well vented area.
- ▷ Do not clean the underside of chassis, fenders, wheel covers, etc., without protecting your hands and arms as you may cut yourself on sharp-edged metal parts.

Moisture and road salt on brakes may affect braking efficiency.

- ▷ Test the brakes after each vehicle washing.

▷ ▷ ▷

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Washing

The best method of protecting your car from the damaging effects of the environment is frequent washing and the application of a preservative. The underside of your vehicle should also be washed thoroughly, at the latest when salt is no longer spread on the roads.

The longer salt, road dust and industrial dust, dead insects, bird droppings or substances from trees (resin, pollen) are allowed to remain on the bodywork, the more serious is their harmful effect.

New cars should be washed carefully with plenty of clear water to protect the new paint work. Dark paint finishes show up the smallest of surface damage (e.g., scratches) more readily than lighter colors.

Dark colors are also more susceptible to scratching because of the composition of their pigments and require particularly careful paint care.

▷ Do not wash your car in bright sunlight or while the bodywork is still hot.

▷ When washing by hand, use abundant water, a soft sponge or wash brush, and Porsche car shampoo.

▷ Begin by spraying the body thoroughly with water to rinse away loose dirt.

▷ After washing, rinse the car with plenty of water and then dry with a chamois leather.
Do not use the same chamois leather for drying as you use for cleaning the windshield and windows.

⚠ Warning!

Moisture which gets on to the brakes during a car wash can reduce braking efficiency or make the brakes pull unevenly which could increase the danger of an accident, causing serious personal injuries or death.

▷ Always apply the brakes a few times after washing the car to test braking efficiency and dry the brake discs.
When doing this, take care not to hamper other road users behind you (traffic conditions permitting).

Automatic car washes

Optional add-on parts or parts which project beyond the contours of the vehicle may be damaged by design features (e.g. brushes) of automatic car washes.

The following parts are particularly susceptible to damage:

- Windshield wipers (always switch them off to prevent them wiping unintentionally in intermittent or sensor operation)
- External telephone antennas (always unscrew)
- Roof Transport System (always remove completely)
- Fixed rear spoiler or extended rear spoiler (do not wash the vehicle with its rear spoiler extended)
- Wheels (the wider the rim and the lower the tire height, the greater the risk of damage)
- High-gloss wheels (to prevent these from getting scratched, do not clean with the wheel-cleaning brushes of the car wash).

▷ Please consult the operator before using automatic car washes.

▷ Wash and dry by hand all points not reached by a car wash, such as door and lid seams or door sills.

Note

Automatic car washes spray water at odd angles and high pressures, which are not seen in normal driving. Therefore, water can sometimes find its way into the passengers compartment during or shortly after the car wash.

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Door locks

- ▷ To prevent the door locks from freezing during the cold season, the lock cylinders should be covered during a wash.
- ▷ Should the locks freeze, use an ordinary deicer. In many cases, a well warmed key can help.
  Never use excessive force.

Paint

- ▷ Never rub a dusty car with a dry cloth since dust particles are abrasive and could dull and damage the surface finish.

The paintwork of your car is exposed to all types of mechanical and chemical conditions, particularly climatic ones such as bright sunlight, rain, frost and snow. Ultraviolet light, rapid changes in temperature, rain, snow, industrial dust and chemical deposits constantly attack the paint which is only able to withstand such exposure in the long term if it is given regular care and attention.

- ▷ Do not apply silicone polishes to the windshield and windows.
- ▷ Do not treat matt-painted components with preservatives or polishes as this will spoil the matte effect.

Preservation

The paint surface becomes dull over time due to weathering. It is therefore necessary to preserve the paint regularly.
This keeps the paint shiny and elastic. Dirt is prevented from adhering to the paint surface and industrial dust is prevented from penetrating the paint.

Provided it is washed and treated with preservative regularly, the brand new finish of your car will be retained for years to come.

- ▷ Apply the Porsche paint preservative after the car wash and polish it dry to obtain a bright finish or simply add a liquid preservative regularly to the final rinse water.

Polishing

Do not resort to using Porsche polish until it becomes evident that the normal preservatives no longer produce the desired finish.

Spots and stains

- ▷ Remove tar stains, grease, oil spots and dead insects as soon as possible with Insect Remover. They can cause discoloration if allowed to remain on the paintwork.
- ▷ Wash the affected area immediately after treating it.

Minor paint damage

- ▷ Have minor paint damage, such as scratches, scores or chips caused by flying stones, repaired immediately by your authorized Porsche dealer before corrosion sets in.

However, if there are already traces of corrosion, they must first be removed carefully and thoroughly. Coat the area with a rust-proofing primer and finish off with a top coat. The paint code and color number are found on the vehicle's paint data plate.

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Engine compartment

The engine compartment and the surface of the engine are treated with a corrosion-inhibitor at the factory.

If degreasing solvents are used to clean the engine compartment or the engine is washed down, the process almost invariably removes the corrosion-inhibiting coating. It is then absolutely necessary to have a durable preservative applied to all surfaces, body seams, joints and assemblies in the engine compartment. This also applies when corrosion-inhibitor parts are replaced.

Effective corrosion-proofing is particularly important during the cold weather season. If your car is driven frequently in areas where salt has been spread on the roads, the whole engine compartment should be cleaned thoroughly after the winter to prevent salt from causing any lasting damage. A full under-body wash should also be performed at the same time.

Caution!

Risk of damage to the generator.

- ▷ Do not point the cleaning jet directly at the generator, or cover the generator.

Windows

The road dust which settles on the windshield and windows contains particles of tire rubber and oil residue. The interior trim and upholstery release particles, particularly in strong sunlight, which collect on the insides of the windows. These deposits are augmented by impurities in the air which enters the car through the fresh air vents.

- ▷ Clean all windows regularly, inside and outside, with Porsche window cleaner.
- ▷ If you use a chamois leather for the windows, do not use it for paintwork as it will otherwise pick up a certain amount of preservative or polish and could smear the windows and thus impair vision.
- ▷ Remove dead insects with the Porsche insect remover.

Wiper blades

Wiper blades that are in perfekt condition are vital for a clear view.

- ▷ Replace the wiper blades twice per year (before and after the cold season) or whenever wiper performance deteriorates.

Periodically clean the wiper blades with Porsche window cleaner, especially after the vehicle has been washed in a car wash.
If they are very dirty (e.g. with insect remains), they can be cleaned with a sponge or cloth.

Undercoating

The underside of your car is durably protected against chemical and mechanical influences.

As it is not possible to exclude the risk of damage to this protective coating in day to day driving, it is advisable to have the underside of the car inspected at certain intervals - preferably before the start of winter and again in spring - and the undercoating restored as necessary.

Your authorized Porsche dealer is familiar with the bodyseal treatment procedures and has the necessary equipment for applying factory approved materials. We recommend that you entrust them with such work and inspections.

Unlike conventional spray oils, undercoating and rust-proofing compounds based on bitumen or wax do not attack the sound-proofing materials applied at the factory.

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⚠ Warning!

Danger of fire and serious personal injuries.

- ▷ Do not apply additional undercoating or rust-proofing on or near the exhaust manifold, exhaust pipes, catalytic converters or heat shields. During driving the substance used for undercoating could overheat and ignite.

- ▷ Before applying fresh underseal, carefully remove deposits or dirt and grease. Once it has dried, the new undercoating compound forms a tough protective coating which provides efficient rust-proofing of the floor panels and components.

- ▷ Always apply a fresh coating of suitable preservative to unprotected areas after cleaning the underside of the body, the transmission, the engine or carrying out repairs to underbody, engine or transmission components.

Effective rust-proofing is particularly important during the cold weather season. If your car is driven frequently in areas where salt has been spread on the roads, the whole engine compartment should be cleaned thoroughly after the winter to prevent salt from causing any lasting damage. A full under-body wash should also be performed at the same time.

Door, roof, lid and window seals

- ▷ Wash dirt (e.g. abrasion, dust, road salts) from all seals regularly using warm soapy water. Do not use any chemical cleaning agents or solvents.

When there is a frost hazard, the outer door seals and the front and rear lid seals can be protected against freezing into place by a suitable care product.

In order to prevent damage to the anti-friction coating, the inner door seals must not be treated with care products.

Headlights, lights, interior and exterior plastic parts

- ▷ Use **only** clean water and a little dishwashing detergent to clean light lenses, plastic headlight lenses, plastic parts and surfaces.
  Do not clean when dry.
  Use a soft sponge or a soft, lint-free cloth. Gently wipe the surface without applying too much pressure.
  The Porsche inside window cleaner is also suitable for cleaning plastic surfaces. Follow the cleaning instructions on the container.
  Never use other chemical cleaners or solvents.

- ▷ Rinse cleaned surfaces with clear water.

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Light alloy wheels

Also refer to "Car washes".

Pitting may occur if metallic particles which cause contact corrosion (e.g. brass or copper in brake dust) are allowed to remain on the aluminum for too long.

▷ If possible, wash the wheels with a sponge or wash brush about every two weeks. In areas where salt is spread on winter roads or there is a lot of airborne industrial dust, it is best to clean the wheels weekly.
The Porsche Light Alloy Wheel Cleaner (ph-value 9.5) can be used for this purpose.
If the ph-value of the detergent is incorrect, the protective coating on the wheels will be destroyed.

Polishes which dissolve oxides, such as those frequently used for other metals, or abrasive tools or agents are unsuitable because they break down the oxide film of the protective coating and will cause discoloration of the wheel.

▷ Every three months, after cleaning, coat the wheels with a car wax or non-corrosive grease (vaseline).
Using a clean cloth thoroughly rub the grease into the surface.

Leather

Characteristics and special features

The natural surface markings of leather, e.g. creases, healed scars, insect sting marks, structural differences and slight variations in shade and grain add to the attractiveness of the natural leather product.

A special mention must be made here of natural leather.
For natural leather, carefully selected hides of the highest quality are used. It is not covered completely with dye on production.
"Nature's signature" is therefore easily recognisable.
This fine material is distinguished by an outstanding seating comfort, special suppleness and a typical patina.

Leather care and treatment

▷ Clean all types of leather regularly to remove fine dust using a soft, damp, white woollen cloth or a commercially available microfibre cloth.

▷ Remove heavy contamination with Porsche leather cleaner.
Please always follow the instructions for use given on the containers.

Caustic cleaners and hard cleaning objects must not be used.

Perforated leather must under no circumstances get wet on its reverse side.

Once cleaned, leather (particularly the heavily stressed leather seats) must be treated only with Porsche leather care liquid.

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Fabric, upholstery, carpets and floor-mats

▷ Use only a vacuum cleaner or a medium stiff brush.

▷ Remove stains and spots with Porsche stain remover.

The Porsche range of accessories includes floor-mats to protect the carpets in summer and winter.

⚠ Warning!

Risk of an accident.

▷ Always check the movement of the pedals before driving and make sure that they are not obstructed by a floor mat or any other object.

▷ Secure the floor mat to prevent it from sliding into positions that could interfere with the safe operation of your vehicle - do not lie them loosely in the vehicle.
Your Porsche dealer will be glad to offer you floor mats of the correct size including a securing possibility.

Alcantara

Do not use a leather care product to clean Alcantara.

For regular care it is sufficient to clean the cover with a soft brush.

Cleaning when lightly soiled

▷ Wet a soft cloth with water or a neutral soap solution and wipe off the dirt.

Cleaning when heavily soiled

▷ Wet a soft cloth with lukewarm water or thinned white spirit and dab the dirt from the outside in.

Safety belts

If it becomes necessary to clean the belts, you can use any mild washing agent.
Allow the belts to dry prior to retracting, but avoid direct sunlight.

Only use suitable cleaners.
If unsuitable cleaners are used or any attempt is made to dye or bleach the belts, the webbing may be weakened and thus constitute a safety risk.

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Storing your Porsche

If you intend to store your Porsche for a prolonged period, please consult your authorized Porsche dealer. The staff will be glad to advise you on the most suitable and necessary methods.

- ▷ Clean your vehicle thoroughly inside and outside.
  Clean the engine compartment.
  The under carriage and chassis components should be free of dirt and salt deposits.
- ▷ Fill up the fuel tank.
- ▷ Change the oil and oil filter, and run the engine for several minutes.
- ▷ Increase the tire pressure to 58 psi (4 bar).
  It is not recommended to lift the vehicle, due to the possibility of corrosion on shock absorber piston shafts.
  The vehicle should be moved slightly, approximately every four weeks, to prevent flat spot on the tires.

Climate control

The air conditioning system should be in good working condition and fully charged.

Windshield/Headlight washer

- ▷ Check and correct antifreeze/cleaning solution level as necessary.

Electrical system

- ▷ Remove the battery from the vehicle and store it in a cool dry place, not on a cement floor.
  When the battery is disconnected, the alarm system is deactivated.
- ▷ Recharge the battery every 3 months. If the battery remains in the vehicle with the cables connected, it is necessary to check, remove and recharge the battery every 2-3 weeks.
  Do not fast charge the battery.
- ▷ Follow the instructions in the "Battery" chapter.

Vehicle interior

The interior must be dry, especially in the area of the floor carpets. The use of drying agents (Silica-Gel) is recommended in vehicles with leather interior and in areas with high humidity. The recommended amount is 3 fabric bags of 1.1 lbs. (500 grams) each placed on the floor carpets.

Windows, doors, lids and roof must be closed. The air flaps should be opened.

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Exercise Extreme Caution when Working on your Vehicle

Warning!

Ignoring the following instructions may cause serious personal injury.

- The engine compartment of any motor vehicle is a potentially hazardous area. If you are not fully familiar with proper repair procedures, do not attempt the adjustments described on the following pages.
  This caution applies to the entire vehicle.
- Only work on your vehicle outdoors or in a well ventilated area.
- Ensure that there are no open flames in the area of your vehicle at any time when fuel fumes might be present. Be especially cautious of such devices such as hot water heaters which ignite a flame intermittently.
- Before working on any part in the engine compartment, turn the engine off and let it cool down sufficiently. Hot engine compartment components can burn skin on contact.
- Be alert and cautious around engine at all times while the engine is running.
  If work has to be performed with the engine running, always set the parking brake, and make sure the shift lever is in neutral or the selector lever is in position "P" or "N".
- In particular, be very careful to ensure that items of clothing (ties, shirt, sleeves etc.), jewelry, long hair, hand or fingers cannot get caught in the engine-compartment blower, fan, belts or other moving parts.
  The radiator and radiator fans are in the front of the car.
  The engine-compartment blower is mounted on the engine compartment lid.
  The engine-compartment blower always runs when the ignition is switched on. After the ignition is switched off, the engine compartment and coolant temperatures are monitored for approx. 20 minutes.
  During this period, and depending on temperature, the engine-compartment blower and radiator fans may continue to run or start to run.
  Carry out work in these areas only with the engine off and exercise extreme caution.
- Your Porsche is equipped with an electronic ignition system. When the ignition is on, high voltage is present in all wires connected with the ignition system; therefore, exercise extreme caution when working on any part of the engine while the ignition is on or the engine is running.
- Always support your car with safety stands if it is necessary to work under the car. The jack supplied with the car is not adequate for this purpose.
- When working under the car without safety stands but with the wheels on the ground, make sure the car is on level ground, the wheels are blocked, and that the engine cannot be started.
  Remove the ignition key.
- Do not smoke or allow an open flame around the battery or fuel.
  Keep a fire extinguisher in close reach.
- Incomplete or improper servicing may cause problems in the operation of the car. If in doubt about any servicing, have it done by your authorized Porsche dealer.
  Improper maintenance during the warranty period may affect your Porsche warranty coverage.
- Supplies of fluids, e. g. engine oil, brake fluid or coolant, are hazardous to your health.
  Keep these fluids out of children's reach and dispose of them in accordance with the appropriate regulations.
- Some countries require additional tools and special spare parts to be carried.
  Please make enquiries before driving abroad.

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Tires/Wheels

The original equipment tires and wheel rims on your Porsche comply with all applicable Federal Motor Vehicle Safety Standards.

For your safety remember the following:

- Wheel rims and wheel bolts are matched to fit your Porsche.
- If you intend to use other than original equipment wheels, be sure that they conform to Porsche specifications for your model.
  Only tires with the same make and with the same specification code (e.g. "NO", "N1"...) can be mounted.
- 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.
- Before you plan on exchanging wheels, or snow tires already mounted on the wheel rims, consult your authorized Porsche dealer. Your dealer has the technical information necessary to advise you which wheel rims and wheel bolts are compatible with the original factory installations.

⚠ Warning!

Risk of loss of control and serious personal injury.

- ▷ If while driving, your vehicle experiences a sudden vibration or ride disturbance, and/or you suspect that possible damage to your tires or vehicle has occurred, you should immediately reduce your speed without excessive use of the brakes.
- ▷ Stop the vehicle as soon as possible, and inspect the tires.
- ▷ If you cannot determine the cause for the disturbance, have your vehicle towed to the nearest Porsche or tire dealer to have your vehicle or tire(s) inspected.
  Continuing to operate the vehicle without correction could result in a loss of control and serious personal injury.

▷ ▷ ▷

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Uniform Tire Quality Grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.



Example

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

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specific government test course.
For example, a tire graded 150 would wear one and a half (1-1/2) times as well on the government course as a tire graded 100.
The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B, and C and they represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete.
A tire marked C may have poor traction performance.

Warning!

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

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Temperature A, B, C

The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.
Sustained high temperatures can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure.
The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109.
Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Warning!

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded.
Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Tire pressures

Warning!

Incorrect tire pressure causes increased tire wear and adversely affects road handling.

- ▷ Always use an accurate tire pressure gauge when checking inflation pressures.
- ▷ Do not exceed the maximum tire pressure listed on the tire sidewall. (Also refer to "Technical data").
- ▷ Cold tire inflation pressure means: all tires must be cold, ambient temperature maximum 68°F (20°C), when adjusting the inflation pressure.
  Avoid sunlight striking the tires before measuring cold pressures, since the pressures would rise from temperature influence.
- ▷ Valve caps protect the valve from dust and dirt, and thus from leakage.
  Always screw caps tightly down.
  Replace missing caps immediately.
- ▷ For safety reasons, don't use tire inflating bottles.

Tire traction

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 "hydroplane" and may cause partial or complete loss of traction, vehicle control or stopping ability.

- ▷ Reduce speed on wet surface to prevent this.

Tire life

Tire life depends on various factors, i.e., road surfaces, traffic and weather conditions, driving habits, type of tires and tire care.

- ▷ Inspect your tires for wear and damage before driving off. If you notice uneven or substantial wear, wheels might need alignment or tires should be balanced or replaced.

▷ ▷ ▷

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Tire wear

The original equipment tires on your Porsche have built-in tire wear indicators. They are molded into the bottom of the tread grooves and will appear as approximately 1/2 in (12 mm) bands when the tire tread depth is down to 1/16 of an in (1.6 mm).

When the indicators appear in two or more adjacent grooves, it is time to replace the tires. We recommend, however, that you do not let the tires wear down to this extent.
Worn tires cannot grip the road surface properly and are even less effective on wet roads.

In the United States, state laws may govern the minimum tread depth permissible. Follow all such laws.

⚠ Warning!

Driving on worn tires can result in loss of control of the vehicle and could cause severe personal injuries.

- ▷ Do not drive with worn tires or tires showing cuts or bruises as they may lead to sudden deflation and loss of control which could cause severe personal injury.
- ▷ Specialized high performance tires on high performance sports cars exhibit more wear than those on a family sedan, or even a high performance sedan.
  Therefore, it is important to check your tire pressure and condition at least every two weeks.

If you notice that tires are wearing unevenly, consult your Porsche dealer.
Uneven wear may not always be due to improper wheel alignment. It can be the result of individual driving habits such as cornering at high speeds. If the tire pressure is not checked and adjusted regularly, abnormal tire wear can also occur.

Tire care

- ▷ Avoid damaging tires and wheel rims.
- ▷ If you must drive over a curb or other obstacle, drive slowly and at an obtuse angle.
- ▷ Check tires for uneven wear and damage before driving off.
- ▷ Remove imbedded material.
- ▷ Replace worn or damaged tires immediately.
- ▷ Keep oil, fuel, brake fluid, etc. away from tires.
- ▷ Replace missing valve stem caps.
- ▷ Keep tires inflated correctly.

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Tire damage, puncture

▷ Check tires for imbedded material, cuts, punctures, cracks and bulges (side wall) before driving off.

In case of tire damage, where it is uncertain whether there is a break in the ply with all its consequences or tire damage caused by thermal or mechanical overloading due to loss of pressure or any other prior damage, we recommend that the tire be replaced for safety reasons.

If one faulty tire is replaced it should be noted that the difference in tread depth on one axle must not exceed 30 %.
Handling inconsistencies may result.

▷ Perform a visual inspection if necessary.

Tire replacements

If in doubt, contact your Porsche dealer or Porsche Importer of your country.
Use only tire makes and types tested by Porsche.

If you do not use a Porsche recommended replacement tire, make sure that you purchase your new tires from a reputable tire dealer and that the dealer complies with all manufacturers warnings for those tires.

Only tires with the same make and with the same specification code (e.g. "NO", "N1"...) can be mounted.

Before mounting new tires, check with your Porsche dealer about the current release status.

Use tires with "ZR" quality standards. There are currently no standards concerning tire strength at speeds above 150 mph (240 km/h).

Tires should be replaced no less than on one axle at the time.
Only tires of the same make and type must be used. Mixed tires are not permissible.

Initially, new tires do not have their full traction. You should therefore drive at moderate speeds during the first 60 - 120 miles (100 - 200 km).

If new tires are installed only on one axle, a noticeable change in handling occurs due to the different tread depth of the other tires.
This happens especially if only rear tires are replaced. However, this condition disappears as the new tires are broken in.

▷ Please adjust your driving style accordingly.

Installation of new tires should only be done by a qualified tire technician.

Valves

Rubber valve stems must be replaced every time a tire is replaced.
For steel valves, the installation and replacement instructions must be observed.
Use only genuine Porsche steel valves.

▷ ▷ ▷

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Parking at the curb

Warning!

Hard impacts against curbs (or traffic islands) are dangerous and may cause hidden tire damage which is not noticeable until later. Such damage can result in accidents at high speeds causing severe personal injury.
Depending on the force of impact, the edge of the rim can also be damaged.

- ▷ If you are in doubt, have the wheel checked by an expert, particularly if you suspect damage on the inside.
- ▷ If you must drive over a curb or other obstacle, drive slowly and at an obtuse angle. Exercise care when parking along curbs.

Wheel alignment, wheel balancing

Also refer to "Four-Wheel drive".

As a precaution, have wheels with summer tires balanced in the spring, and those with mud and snow tires before winter.
Unbalanced wheels may affect car handling and tire life.
Only the specified weights may be used for wheel balancing.
Self-adhesive weights must not come into contact with cleaning agents, since they could drop off.
A wheel should always be balanced after a tire repair.
Uneven tread wear indicates wheel imbalance. In this event, the vehicle should be checked at an authorized Porsche dealer.

Warning!

If, during a journey, uneven running or vibrations occur that could be caused by damage to tires or the car, the speed must be reduced immediately, but without braking sharply.
If you continue your trip without having the cause of the fault remedied, you might lose control of your vehicle which could cause severe personal injury.

- ▷ Stop the vehicle and check the tires.
- ▷ If no cause for the fault can be found, drive carefully to the nearest authorized Porsche dealer.

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Removing and storing tires

▷ After changing, adjust tire pressure and torque wheel bolts diagonally to 94 ftlb (130 Nm).
See "Changing wheels".

Tires must always remain on the same side of the vehicle.
When wheels are removed, the direction of rotation and position of each wheel should be marked.

Example

FR (front right), FL, RR and RL.

Wheels must always be fitted in accordance with their marking.

The preception that tire durability and performance are immune to the effects of storage and age is unfounded.
Chemical additives, which make the rubber elastic, lose their effectiveness in the course of time and the rubber becomes brittle and cracks.

Therefore, the tires, especially the spare tire, should be inspected from time to time.

Note

Under no circumstances should tires older than 6 years be used on your Porsche.

The age of the tire can be obtained from the "DOT" code number. If, for example, the last four numbers read 1202 then the tire was produced in the 12th week of 2002.

Store tires in a cool and dry place.

Snow tires

For a better grip on snow and ice, use radial M+S tires with studs.
Check with your local Motor Vehicle Bureau for possible restrictions.

⚠ Warning!

Risk of loss of control and damage to the vehicle as well as severe personal injury.
The standard tires profile and rubber mixture are optimized for wet and dry driving conditions, and may not prove favorable for snow conditions.

▷ Therefore install M+S tires before driving in such conditions.

▷ ▷ ▷

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Before mounting snow tires, consult with your Porsche dealer. He has the technical information necessary to advise you on wheel and tire compatibility.

Snow tires should have the same load capacity as original equipment tires and should be mounted on all four wheels.
Snow tires with studs should be run at moderate speeds when new in order to give the studs time to settle.

⚠ Warning!

Tires with badly worn treads and studs are very dangerous and could cause accidents resulting in severe personal injuries.

▷ Make sure they are replaced immediately.

Do not drive a vehicle equipped with snow tires at prolonged high speed.
Snow tires do not have the same degree of traction on dry, wet or snowfree roads as a normal tire.
Furthermore, snow tires wear rapidly under these conditions.

Snow tires do not fulfill their purpose if the tread depth is less than 5/32 in (4 mm).

Comply with all state and local laws governing snow tire and tread depth requirements.

Snow chains

⚠ Caution!

Risk of damage to body, axle or brake components.

▷ Fit snow chains only to the rear wheels, and only with the tire/rim combination listed in the Technical Data.
To ensure adequate clearance between chain and body, Porsche recommends only the use of fine-link chains such as those approved by Porsche.

▷ Follow instructions issued by the supplier of the chains.

Different states and countries have varying statutory requirements regarding maximum speed. Check with local authorities for possible restrictions.

▷ Remove chains as soon as the roads are free of ice and snow.

Tire designations

Due to new speed and load ratings for radial tires, new designations have come into force for snow tires for your Porsche.

The designation to be used for ZR tires is e.g., 255/40 ZR 17 (Z = code letter for radial tires for speeds above 150 mph (240 km/h).

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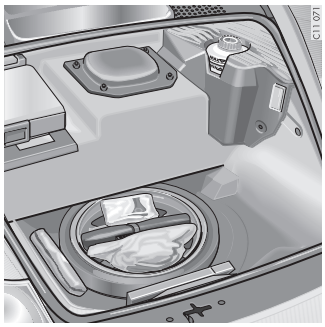
Jack, Tools

Warning!

The jack must be used only to raise the car for wheel changing.
The jack must never be used as a support to work underneath the vehicle. If the jack is accidentally dislodged, you or bystanders could suffer severe personal injury.

- ▷ Never jack up other vehicles or other loads with the jack.
- ▷ Always place the car on stable supports if you have to work under it.
  When working under the vehicle, always use safety stands specifically designed for this purpose.

See chapter "Changing Wheels".



The jack, tools, compressor and pressure tester are located in the spare wheel.

Lifting the Vehicle with a Lifting Platform or Garage Lift

The car must be raised **only** at the illustrated jacking points. See chapter "Changing Wheels".
Lifting at any other place may damage the vehicle or may result in personal injury.

Caution!

Risk of serious damage to the engine or the vehicle.

- ▷ Never lift the vehicle by the engine, transmission or axles.
- ▷ Don't damage any sensitive components in the vicinity of the jacking points.

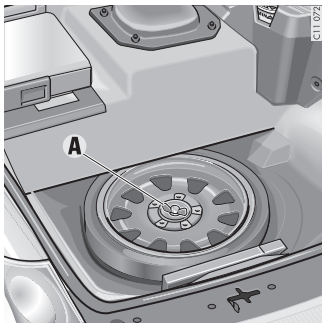
Platform lift

Before the car is driven on to a lifting platform, it must be ensured that there is enough space between the lifting platform and the vehicle.

Garage lift

A garage lift must be used **only** at the illustrated jacking points.
Jacking at any other place may damage the vehicle or may result in personal injury.

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Spare Wheel

The spare wheel is secured in the luggage compartment with a wing nut **A**.

There is a plastic sheet in the tool pocket to store the damaged wheel.

Vehicles with Porsche Ceramic Composite Brake

▷ Before inflating the spare wheel, open the latch on the lashing straps and remove belts.

Your vehicle is equipped with a collapsible spare wheel that must be inflated with the electrical compressor when needed.

Tire pressure

Vehicles **without** Porsche Ceramic Composite Brake: 36 psi (2.5 bar).

Vehicles **with** Porsche Ceramic Composite Brake: 41 psi (2.8 bar).

Important note

Follow all warnings and instructions found in this manual for changing a wheel.

⚠ Warning!

Risk of an accident.
For safety reasons, the following instructions for the use of the spare wheel must be followed exactly.

▷ Check the tire filling pressure immediately after fitting the spare wheel.

▷ The spare wheel must be used only over short distances in cases of emergency.
After repair or replacement, re-mount the road wheel and tire as soon as possible.

▷ Avoid rapid acceleration, hard braking and high cornering speeds to prevent loss of vehicle control.
The maximum permitted speed is 50 mph/80 km/h and must not be exceeded because of altered driving characteristics and for reasons of wear.
The tread depth of the spare wheel is subject to the same laws as the original tires.

▷ The vehicle must be fitted with only **one** spare wheel.

▷ Do not use a spare wheel from other vehicles on your car.
Likewise, the spare wheel from your vehicle must not be used on other cars.

▷ To avoid damage, do not use automatic car washes when the spare wheel is installed.

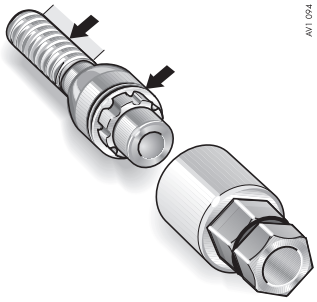
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Spacer Rings

Warning!

Risk of accident. If incorrectly fitted, the spare wheel may come off while driving which could result in serious personal injury or death.

- **17 mm spacer rings on rear axle:**
  If 17 mm spacer rings are fitted to the wheel hubs, the appropriate spacer ring must be **removed** before the spare wheel is fitted.
  To mount the spare wheel, use the wheel bolts which were used to fasten the spacer ring.



Wheel Bolts

Warning!

Risk of wheel bolt breakage and wheel separation, resulting in severe personal injury or death.

- Follow all instructions concerning wheel bolts.

- Always clean the wheel bolts before fitting.
- Apply a thin coat of **Optimoly TA** (aluminium paste) on the thread and between the bolt head and movable spherical cap ring (arrows).

  The bearing surface of the spherical cap facing the wheel must not be greased.
- Replace damaged wheel bolts.
  Only use the Original Porsche wheel bolts specially designed for this vehicle type.

Note

On vehicles with 17 mm spacer rings on the rear axle, the wheels are secured with nuts.

Tightening torque

Tightening torque of wheel bolts and wheel nuts: **130 Nm**.

Wheel Securing Bolts

The wrench socket for the wheel securing bolts is in the tool pocket.

To loosen or tighten the wheel bolt with anti-theft protection, a wrench socket with the appropriate coding must be used between the wheel bolt and the wheel-bolt spanner.

- When positioning the wrench socket, ensure that it engages fully in the teeth of the wheel bolt.

If the wheels have to be removed at the workshop, please do not forget to hand over the wrench socket for the wheel securing bolts along with the car key.

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Changing Wheels

Warning!

Failure to follow these instructions may result in serious personal injuries to you or to bystanders.

Before changing the wheel

- If you have a flat tire, move a safe distance off the road. Turn the emergency flasher on and use other warning devices to alert other motorists.
- Do not park your vehicle where it may contact dry grass, brush or other flammable materials. The hot parts of the exhaust system could set such materials on fire, thereby causing both property damage and severe or fatal physical injury.
- Passengers must not remain in the vehicle when it is jacked up.
- Before you change a wheel, be sure the ground is level and firm. If necessary, use a board under the jack to ensure that the jack does not sink into the ground.
- Set the parking brake and block the wheels opposite the flat tire on the other side of the vehicle.

While operating the jack

- The jack is only to be used for changing a wheel. Do not use it as a support to work under the car.
- The car must be jacked up only at the illustrated jacking points.
  Lifting at any other place may damage the vehicle or may result in personal injury.
  Never jack the car up by the body or the bumpers.
- For safety reasons do not use tire inflating bottles.
  Do not use commercially available sealant bottles.

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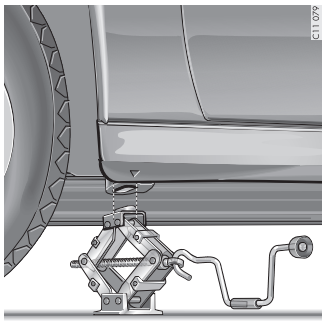
Sequence of operation

Warning!

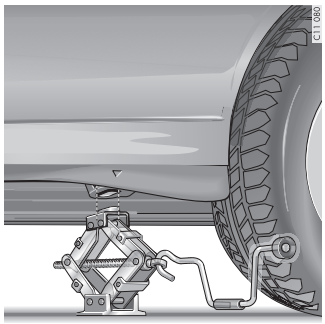
The jack must be used only to raise the car for wheel changing.
The jack must never be used as a support to work underneath the vehicle. If the jack is accidentally dislodged, you or bystanders could suffer severe personal injury.

- ▷ Never jack up other vehicles or other loads with the jack.
- ▷ Always place the car on stable supports if you have to work under it.
  When working under the vehicle, always use safety stands specifically designed for this purpose.

Please use a suitable knee rest to protect your clothing against soiling.



Jacking point for front wheel change



Jacking point for rear wheel change

1. Slightly loosen the wheel bolts of the wheel to be changed.
2. Set up jack only at the points provided.
   The jack foot must be in contact over its whole area.
   Use a suitable support if necessary.
3. Hold jack still and wind it up until its head enters the jacking point on the car.
   Only jack car up until the wheel to be changed is completely off the ground.

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*Screw in assembly aid for vehicles **without** Porsche Ceramic Composite Brake*



*Screw in **two** assembly aids for vehicles **with** Porsche Ceramic Composite Brake.*

4. Remove 1 or 2 wheel bolts (see respective illustration). Remove assembly aids from tool kit and screw in instead of the wheel bolts. Remove the remaining wheel bolts.

Caution!

Risk of damage to brake discs.

▷ Ensure that the assembly aids are screwed in when changing a wheel.

5. **Vehicles with Porsche Ceramic Composite Brake**
   Open latches on the lashing straps of the spare wheel and remove belts.

6. Mount the collapsible spare wheel on the vehicle before inflating it.

7. Please note chapter "Wheel bolts".
   Insert four wheel bolts and tighten by hand. Remove assembly aids, screw in remaining bolt.
   Initially tighten screws in diagonally opposite sequence so that the wheel is centered.

8. Screw filler hose of the compressor onto the tire valve.

9. Insert plug of the compressor into the cigarette lighter.
   The required filling pressure will be reached after a few minutes.

   Required filling pressure:
   Vehicles **without** Porsche Ceramic Composite Brake **36 psi (2.5 bar)**.
   Vehicles **with** Porsche Ceramic Composite Brake **41 psi (2.8 bar)**.

10. Unscrew filler hose of the compressor.
    If the pressure is too high, release some air by pressing the valve insert.
    Recheck the filling pressure.

11. Lower car and remove jack.

12. Tighten wheel bolts in diagonally opposite sequence.

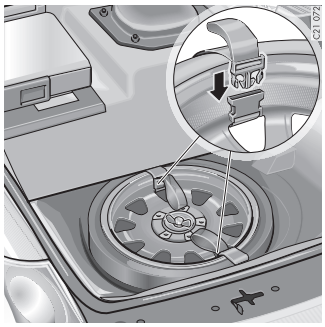
Important note

Immediately after changing a wheel, adjust the tire filling pressure (refer to Page 5) and use a torque wrench to check the prescribed tightening torque of the wheel bolts (130 Nm).

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After using the collapsible spare wheel

▷ Release air by unscrewing the valve insert.
The tire will revert to its original shape only after several hours. Only then can it be stowed in the spare wheel recess in the luggage compartment.



Vehicles with Porsche Ceramic Composite Brake

The spare wheel can not be stowed in the spare wheel recess without attached lashing straps.

▷ After releasing the air, attach the lashing straps on the opposite sides.
To do this, pull the straps through the rim and place around the tires.
Position the straps so that the strap latches are in the inner side of the rim.
Close strap latches and pull the straps taut.

▷ Stow the collaspible spare wheel in the spare wheel recess so that the lashing straps are located at the front and rear (see illustration).

Repair

The collapsible spare wheel must be repaired only by the manufacturer. Please consult your authorized Porsche dealer if the collapsible spare wheel is defective.

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Electrical System

In order to avoid damage and faults in electrical or electronic systems, electrical accessories should be installed at your authorized Porsche dealer.

▷ Only use accessories authorized by Porsche.

⚠ Warning!

Risk of short circuit and fire.
Replacing fuses or relays with the engine running or the ignition on could cause electrical shock.

▷ Disconnected the battery during all work on the electrical system. See chapter "Battery".

Relays

Defective **relays** should be changed only by an authorized workshop.

Radio code

The theft-protection code of the radio must be entered again if the battery was disconnected.

Alarm system, central locking

The status of the central locking and alarm system is not changed by disconnecting the battery.
When the battery is disconnected, the alarm system ceases to function.

Overload protection

If the central locking system is operated more than ten times within a minute, further operation is blocked for 30 seconds.

Load switch-off after two hours or five days

If the ignition key is removed, loads which are switched on or in standby (e.g. power windows, luggage compartment lighting, interior light, radio) are automatically switched off after approximately **2 hours**.

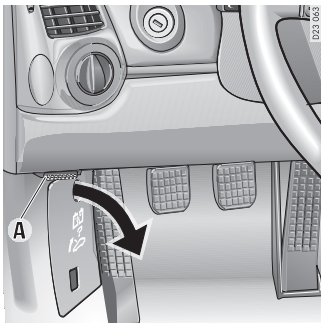
If the vehicle is not started or unlocked with the remote control within **5 days**, the remote control standby function is switched off (to prevent discharging of the vehicle battery).

1. In this case, unlock the driver's door with the key at the door lock.
   Leave the door closed in order to prevent the alarm system from being triggered.

2. Press button **1** on the remote control.

The remote control is now activated again.

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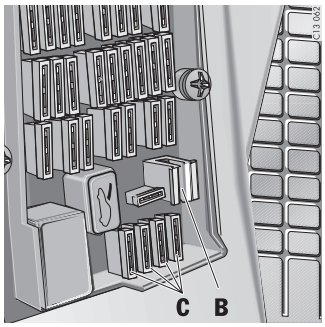


A - *Diagnostic socket*

Replacing fuses

In order to prevent damage to cables and consumers in the electrical system due to short circuits and overloads, the individual circuits are protected by fuses.

The fuse box is at lower left in the driver's footwell and is protected with a plastic cover.



B - *Plastic gripper*
C - *Spare fuses*

1. Before replacing a fuse, switch off all electrical consumers and remove the ignition key.

2. To open, pull the cover off at the finger hole (arrow).
   The **fuse plan** and **instructions for emergency unlocking of the luggage compartment lid and engine compartment lid** can be found on the inside of the cover.

3. To check or replace a fuse, remove it from the spring clip using the plastic gripper **B**.
   A blown fuse indicates an overload in the circuit and can be identified by the melted metal strip.

4. Replace only with fuses of the same rating.
   Spare fuses **C** are in the lowest section of the fuse box.

Important note

▷ If a fuse blows repeatedly, please immediately consult an authorized Porsche dealer, so that the short circuit can be located and corrected.

▷ Never try to "repair" fuses: you may cause serious damage to other parts of the electrical system.

▷ ▷ ▷

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Emergency unlocking of the luggage compartment lid and engine compartment lid

If the battery is discharged, the lids can be opened only with the aid of a donor battery.

Unlocking lids

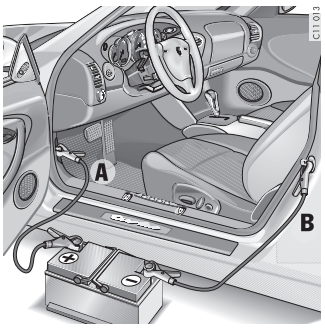
1. Use the key to unlock the vehicle at the door lock.
   Leave the key in the door lock.
2. Remove plastic cover over the fuse box.
3. Pull out positive terminal **A** in the fuse box.
4. Use a jumper cable to connect the positive terminal of the donor battery with positive terminal **A** in the fuse box.



Note

If the vehicle was locked, the alarm horn will sound when the negative cable is connected.

5. Use the second jumper cable to connect the negative terminal of the donor battery with latch striker **B**.
6. Switch the alarm system off by locking and unlocking at the door lock.
7. Unlock the engine compartment lid or luggage compartment lid with the switch.



8. Disconnect the negative cable first, then the positive cable.
9. Push positive terminal **A** into the fuse box and push on the plastic fuse box cover.

Note

The engine cannot be started with this method. Please observe the chapter “Emergency Starting with Jumper Cables” for this purpose.

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Battery

Warning!

Risk of short circuit and fire.

- ▷ Observe all warning notes on the battery.
- ▷ Disconnect the battery during all work on the electrical system.
- ▷ Do not lay tools or other metal objects on the battery as they could cause a short circuit across the battery terminal.

Hydrogen gas generated by the battery could cause an explosion, resulting in severe personal injuries.

- ▷ Do not expose the battery to an open flame, electrical spark or a lit cigarette.

Risk of severe personal injury and damage to the fabric, metal or paint.

- ▷ Wear eye protction.
- ▷ Do not allow battery acid to come in contact with your skin, eyes, fabric or painted surfaces.
- ▷ If you get electrolyte, which is an acid, in your eyes or on your skin, immediately rinse with cold water for several minutes and call a doctor.
- ▷ Spilled electrolyte must be rinsed off at once with a solution of baking soda and water to neutralize the acid.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.

- ▷ Always protect your skin by washing thoroughly with soap and water.

Charge state

A well charged battery will not only prevent starting problems but will also last longer.

In order to avoid discharging the battery unintentionally:

- ▷ Curtail unnecessary power consumption, particularly in city traffic or when travelling short distances only.
- ▷ Always remove the ignition key when leaving the car.
- ▷ Avoid using the Porsche Communication Management system when the engine is not running.

▷ ▷ ▷

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Battery care

- ▷ Ensure that battery is securely mounted.
- ▷ Keep terminals and connections clean and properly tightened.
  Corrosion can be prevented by coating the terminals and connections with petroleum jelly or silicone spray.
- ▷ Ensure that vent caps are securely tightened to prevent spillage.

Checking the electrolyte fluid level

Generally, the electrolyte level must be checked more often in summer than in the winter, and more often when driving long distances.

- ▷ When adding water, use only clean vessels.
  In no case may alcohol (e.g. window cleaner residues) be permitted to enter the battery.
- ▷ Unscrew and open the filler vent caps of each cell.

With the car horizontal, the fluid level should meet the indicator mark in each cell.

- ▷ If necessary, top up with **distilled water**.
  Do not use acid.
  Only fill up to the mark, otherwise the electrolyte will overflow when the battery is being charged and cause damage.

Battery charging

Automotive batteries loose their efficiency when not in use.
The charge available in your battery can be measured with a battery hydrometer.
We recommend that the battery voltage be tested by your Porsche dealer who has the appropriate equipment.

If the car is not driven for prolonged periods, the battery must be charged at least every 6 weeks.
A discharged battery allows rapid formation of sulfates, leading to premature deterioration of the plates.

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⚠ Warning!

Hydrogen gas generated by the battery could cause an explosion, resulting in severe personal injuries.

- ▷ Charge battery in a well ventilated area.
- ▷ Never charge a frozen battery. It may explode because of gas trapped in the ice. Allow a frozen battery to thaw out first.
- ▷ If you get electrolyte, which is an acid, in your eyes or on your skin, immediately rinse with cold water for several minutes and call a doctor.

Slow battery charging

1. Pay attention to all warnings and follow instructions that come with your battery charger.
2. When charging, ensure adequate ventilation.
3. Remove battery (see "Removing battery").
4. All vent caps should be open.
   The fluid level should meet the indicator mark in each cell.
5. Ensure that charger is switched off – danger of short circuit!
6. Connect charger cables.
   Charger cables must be connected POSITIVE (+) to POSITIVE (+) and NEGATIVE (–) to NEGATIVE (–).
7. Switch on charger.
   Normally, a battery should be charged at no more than 10 percent of its rated capacity. Rated capacity of the battery in your vehicle is listed on the battery housing.
8. After charging, turn off charger and disconnect charger cables.
9. Tighten the vent caps and reinstall battery (see "Installing battery").

Winter operation

During the winter months, battery capacity tends to decrease as temperatures drop.
Additionally, more power is consumed while starting, and the headlights, heater, rear window defogger, etc., are used more frequently.

- ▷ Let your Porsche dealer test the battery's capacity before winter sets in.

Replacing battery

The service life of the battery is subject to normal wear; it depends graetly on care, climatic conditions, and driving conditions (distances, loads).

- ▷ Only use an original Porsche battery, with the correct part number, as a replacement.
- ▷ Please observe the disposal instructions for batteries.

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Removing the battery

The requisite tool is in the tool kit.

The battery is located in the luggage compartment under a black plastic lid.

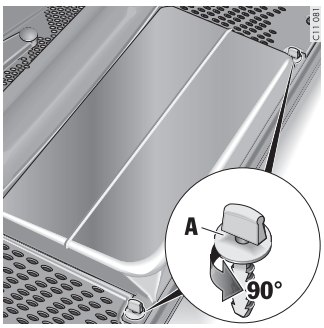
Warning!

Risk of damage to alternator and electronic control units.

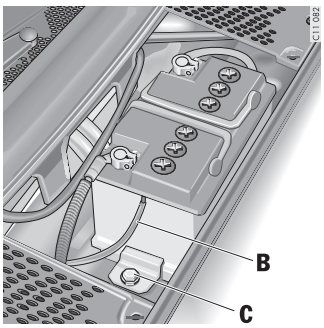
- ▷ Do not disconnect the battery while the engine is running.
  This also applies to cars equipped with a battery main switch.
- ▷ Never drive the car with a disconnected battery.

Risk of caustic burns from escaping acid.

- ▷ Keep vent caps on to avoid spillage.
- ▷ Do not tilt the battery when removing and installing it.



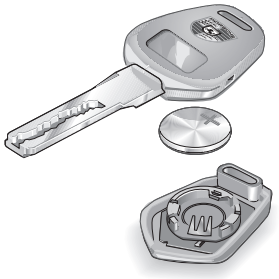
1. Switch off engine and all electrical loads.
2. Open turn-locks **A**.
   Remove plastic lid.
3. Pull off central vent hose **B**.
4. Important: disconnect the negative (–) ground wire first, and then the positive (+) cable – danger of short circuit!
5. Unscrew fastening screw **C**.
6. Remove battery.



Installing the battery

1. Put battery in.
2. Screw in fastening screw **C**.
3. Important: connect the positive (+) cable first, and then the negative (–) ground wire – danger of short circuit!
4. Push on central vent hose **B**.
5. Fit plastic lid. Lock turn-locks **A**.
6. Enter the radio code again.

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AV1 005

1. Using your finger nail or a small screwdriver, carefully lift off the cover of the key grip.

2. Replace battery (observe polarity).
   A spare battery (Lithium CR 2032, 3 volts) is available at your authorized Porsche dealer.

3. Replace cover and press together firmly.

Note

Any disposal regulations for batteries must be observed!

Replacing the remote-control battery

A weak battery may be recognized by the clearly reduced action range of the remote control or when the **light-emitting diode 2** in the key grip no longer flashes when the remote control is operated.

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Emergency Starting with Jumper Cables

See the chapter "Battery" and "Emergency unlocking of the lids".

If the battery is discharged, e.g. in winter or after the car has been parked for a long time, the battery of another car can be used for starting with the help of jumper cables.
Make sure the voltage of both batteries is the same.
The capacity (Ampere hours, Ah) of the booster battery must not be substantially less than that of the discharged battery.
The discharged battery must be correctly connected to the vehicle's electrical system.

Note

- Do not try to start the car by pushing or towing. Damage to the catalytic converters and other components of the car may result.

⚠ Warning!

Risk of damage and serious personal injury due to short circuit.

- Use only jumper cables of adequate diameter cross-section and fitted with completely insulated alligator clips.
- Follow all warnings and instructions of the jumper cable manufacturer.
- When connecting jumper cables, make sure that they cannot get caught in any moving parts in the engine compartment.
  The jumper cables must be long enough so that neither vehicles nor cables touch another.
- The vehicles must not be in contact, otherwise current might flow as soon as the positive terminals are connected.
- The cable clamps must not be allowed to contact each other when one end of the jumper cables are connected to a battery.
- Ensure that tools or conductive jewellery (rings, chains, watch straps) do not come into contact with live parts of the vehicle.
- Improper hook-up of jumper cables can ruin the alternator.

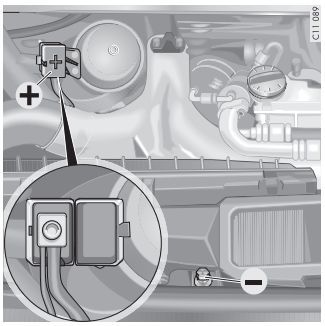
Danger of caustic burns.

- Do not lean over the battery.

Danger of gas explosion.

- Improper use of booster battery to start a vehicle may cause an explosion, resulting in severe personal injuries.
- Keep sources of ignition away from the battery, e.g. open flame, burning cigarettes or sparking due to cable contact or welding work.
- A discharged battery can freeze even at 14°F/–10°C.
  Before connecting jumper cables, a frozen battery must be thawed out.

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+ = *Positive terminal for jump starting*
– = *Grounding point for jump starting*

Connect jumper cables in the following sequence:

1. Check electrolyte level of each cell. If necessary, fill with distilled water to just above plates.

2. On a vehicle with a discharged battery: turn off all consumers and accessories, move the gear shift lever into the neutral position and set the parking brake.

3. Open the cap of the positive terminal for jump starting (+).

4. Attach the **positive cable** first to the positive terminal for jump starting (+),
   then to the positive terminal of the booster battery.

5. Connect the **negative cable** first to the negative terminal of the booster battery,
   then to the grounding point for jump starting (–).

6. Run the engine of the booster car at a higher speed.

7. Start the engine.
   An attempted start using jumper cables should not last more than 15 seconds. Then allow a waiting period of at least one minute.

8. With the engine running, disconnect both jumper cables in reverse order.
   Close the lid of the jump start box.

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Lights, Replacing Bulbs

⚠ Warning!

Risk of short circuit.

▷ Always switch off the relevant consumer when changing bulbs.

Risk of injury. The headlights are under high voltage when installed.

▷ Be careful during all work in the area of the headlights.

Risk of damage. Bulbs of a higher wattage can damage the lamp housing.

▷ Only the bulbs shown in the chart may be used.

▷ New bulbs must be clean and free from grease. **Therefore, never touch bulbs with your bare hands.**
Use a cloth or soft paper while replacing bulbs.

▷ For reasons of traffic safety, we recommend that you always carry spare bulbs so that you can have a correctly illuminated car at all times.
In certain countries, the carrying of spare bulbs is mandatory.

⚠ Caution:

Risk of damage to headlights due to excessive temperatures and abrasion.

▷ Attach no coverings (e.g. films, "stone guards") in the area of the headlights.

▷ Use soapy water only to clean light lenses and plastic headlight lenses.
In no case may chemical cleaners or other volatile cleaning fluids be used.

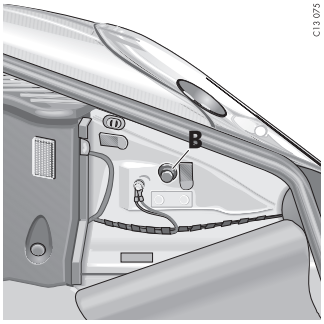
▷ To prevent scratches, do not rub with a dry or merely moist cloth, tissue or insect sponges.

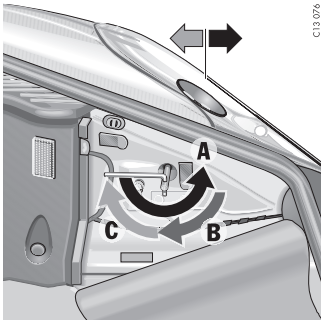
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Bulb Chart	Socket	Type, rating
Parking light, front	BAX 9 S	H 6 W
Low beam High beam (gas-discharge lamp)	Philips, D 2 S	35 W
Additional high beam (headlight flasher)	PGJ 19 - 2	H 11, 55 W
Fog lights	PK 22 S	H3, 55 W
Turn signal light	BAU 15 S	PY 21 W
Rear fog light, reversing light	BA 15 S	P 21 W
Brake/tail light	BAY 15 d	P 21 / 5 W
Tail light	BA 15 S	R 5 W
Side marker light, reading light, door guard/ curb light	W 2.1 x 9.5 D	W 5 W
Raised brake light	W 2.1 x 9.5 D	W 3 W
License plate light	SV 8.5	C 5 W
Luggage compartment/engine compartment light, interior light	SV 8.5	K 10 W

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Headlights

Removal

1. Unscrew plastic nut **A**.
   Detach side carpeting.

2. Remove rubber plug **B** from the unlocking opening.

3. Place socket wrench from tool kit on the unlocking spindle.
   The handle of the wrench should point horizontally to the rear.

4. Turn socket wrench approx. 180° **A** and leave in position.
   The headlight is now unlocked and can be pulled forward out of the wing.

5. Turn socket wrench back until it is pointing vertically downward **B**.

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Installing

1. Insert headlight into guide rails and push fully into the wing.

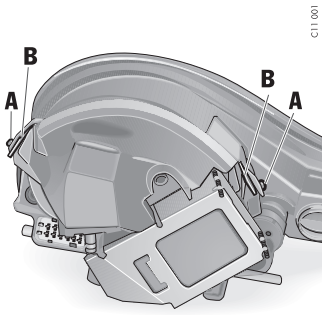
2. Push headlight to the rear and at the same time turn the socket wrench until it points horizontally to the rear **C**.
   The headlight locking device must perceptibly and audibly engage.

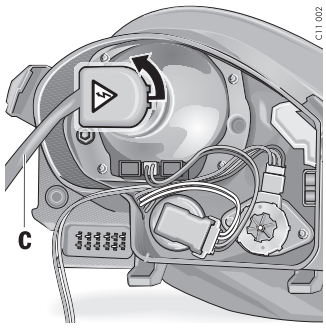
3. Check headlight for a firm seating, e.g. by pulling it in the area of the fog light.

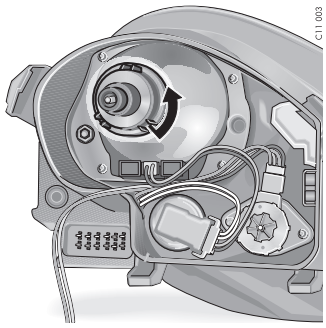
4. Insert rubber plug into the unlocking opening and secure the carpeting.
   Check the function of all lights.

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Low beam, high beam and additional high beam

Opening the lid of the headlight housing

1. Unscrew the two screws **A**.
2. Press both release tabs **B** and remove lid.

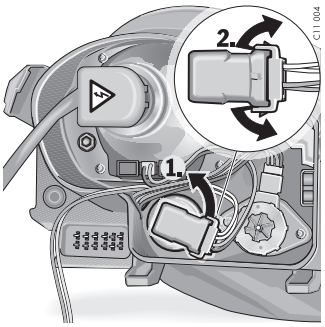
Changing bulb for low beam and high beam

1. Turn plug counter-clockwise (bayonet lock) and pull it off.
2. Turn clamping ring counter-clockwise (bayonet lock) and pull it off.
3. Replace defective bulb.
   When doing so, ensure bulb is seated properly.
4. Reassemble in reverse order.

Note

In order to prevent impairment of the headlight beam adjustment function, the cable **C** of the plug must always point to the outside of the vehicle.

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Changing bulb for additional high beam

1. Turn bulb holder.
   Turn it counter-clockwise on the left headlight and clockwise on the right headlight.
   Take bulb holder out of the headlight housing.

2. Pull both plug release tabs apart.
   Pull plug out of the bulb holder.

3. Replace the defective bulb with bulb holder.

4. Reassemble in reverse order.

Closing lid of headlight housing

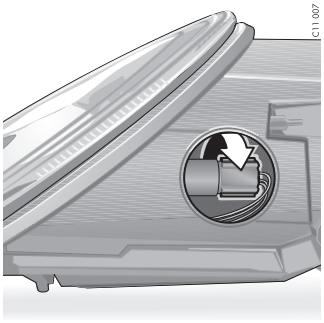
1. Insert retaining lugs of lid into the bottom of the headlight housing and close lid until it perceptibly engages.

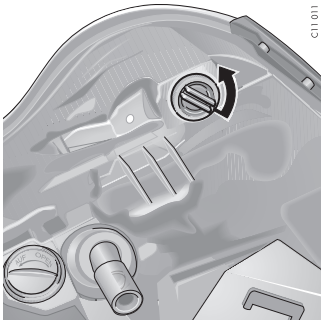
2. Screw in both screws.

▷ ▷ ▷

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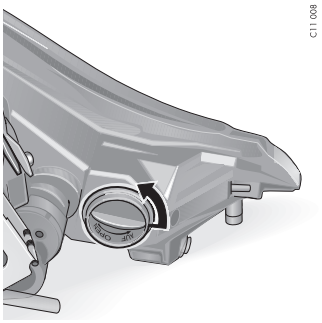
Changing bulb for parking light

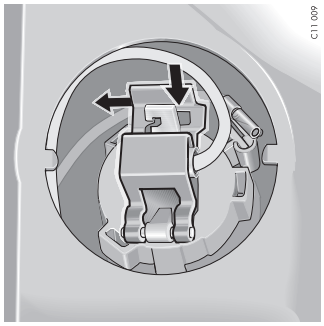
1. Turn cap in the headlight housing counter-clockwise and remove the cap.
2. Turn bulb holder.
   Turn it counter-clockwise on the left headlight and clockwise on the right headlight.
   Take bulb holder out of the headlight housing.
3. Turn defective bulb counter-clockwise (bayonet lock) and replace it.
4. Reassemble in reverse order.

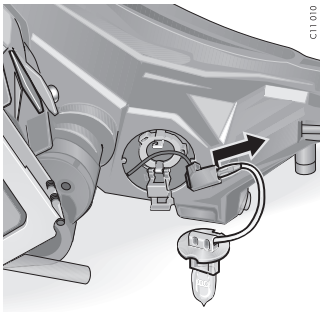
Changing bulb for turn signal light

1. Turn bulb holder in the headlight housing counter-clockwise and pull it out.
2. Turn defective bulb counter-clockwise (bayonet lock) and replace it.
3. Reassemble in reverse order.

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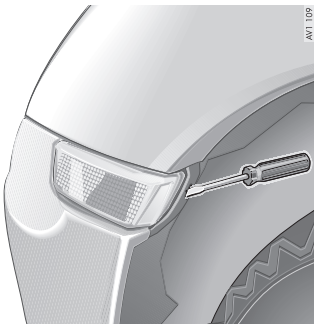


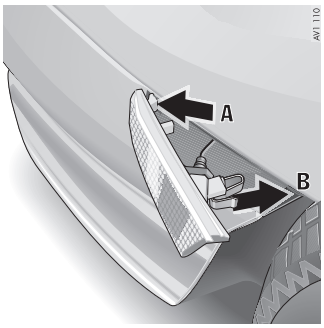


Changing bulb for fog light

1. Turn cap in the headlight housing counter-clockwise and remove the cap.
2. Press the retaining clip down with a screwdriver and push it to the left.
3. Pivot the retaining clip back.
4. Pull bulb with cable out of the headlight housing.
5. Disconnect plug connection and replace the defective bulb.
6. Reassemble in reverse order.

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Changing Bulb in the Side Marker Light

1. Remove cap in the wheel housing liner with the screwdriver.

2. Insert screwdriver into the opening in the wheel housing liner at right angles to the side marker light housing.
   By pressing with the screwdriver, disengage the securing spring of the side marker light housing.

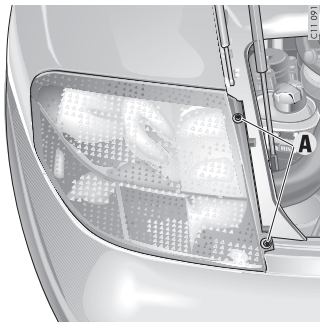
3. Remove side marker light and undo bulb holder (bayonet lock).

4. Remove bulb from the holder and replace. Insert holder.

5. Insert the light tabs (arrow **A**) into the wing at the front.
   Engage securing spring (arrow **B**) in the wing.

6. Press cap into the wheel housing liner.
   Check operation of the light.

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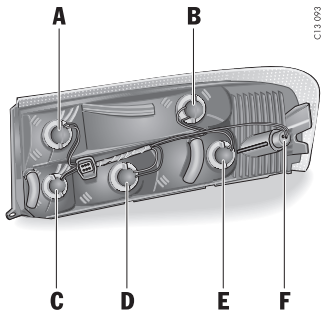
Tail light, left

Tail Light

Changing bulb

1. Open engine compartment lid.

2. Unscrew fastening screws **A** with a screwdriver and pull tail light back and out.

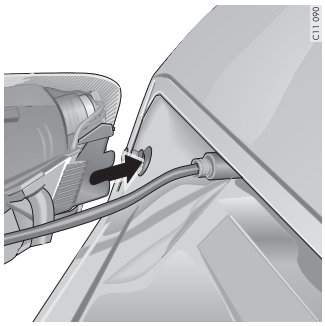


A - *Reversing light*
B - *Turn signal light*
C - *Tail light/brake light*
D - *Tail light*
E - *Rear fog light*
F - *Side marker light*

3. Turn bulb holder in the tail light housing counter-clockwise and pull it out.

4. Turn defective bulb counter-clockwise (bayonet lock) and replace it.

5. Insert bulb holder and turn it clockwise.

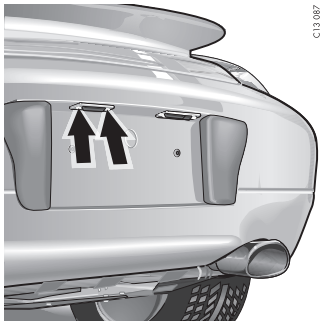


6. Insert tail light in the wing.
   Ensure that locating lug (arrow) is correctly positioned.

7. Slightly screw in both fastening screws of the tail light.
   Align the tail light with the vehicle contours and tighten the screws.

8. Check operation of the light.

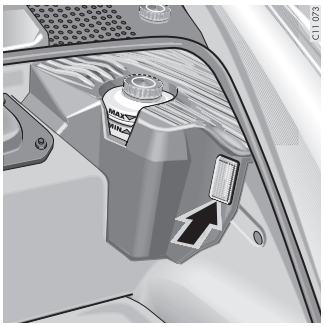
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License Plate Lights

Changing bulb

1. Undo both screws (arrows) and remove light.
2. Push rubber covering back, remove defective bulb from between the contact springs and replace.
3. Reassemble in reverse order. Check operation of the light.



Luggage Compartment Light, Engine Compartment Light, Footwell Lights

Changing bulb

1. With a screwdriver (arrow), carefully press light out of the cutout in the lining.
2. Remove defective bulb from between the contact springs and replace.
3. Insert the light into the cutout first from one side then from the other. Check operation.

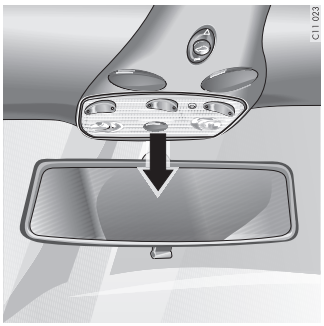


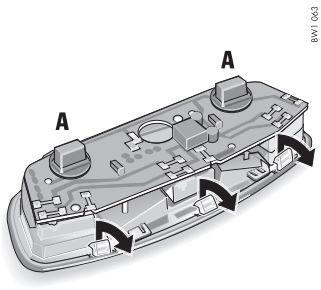
Door Guard/Curb Light

Changing bulb

1. With a screwdriver (arrow), carefully push out the light.
2. Pull bulb holder out of light housing. Remove defective bulb and replace.
3. Install bulb holder and insert light.

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Interior Light, Reading Lights

Changing bulb

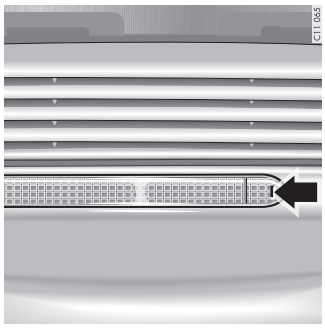
1. Carefully pull light housing out of the lining (arrow).

2. **Reading light:**
   Turn the holder **A** of the defective bulb counter-clockwise and remove.
   Remove bulb and replace.

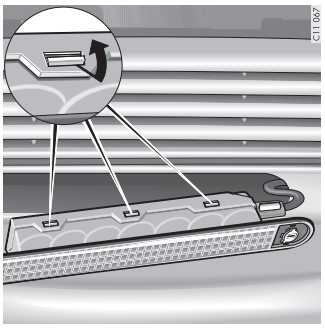
   Interior light:
   Carefully unclip the light lens on the switch side (arrows) and then detach it.
   Remove defective bulb from between the contact springs and replace.
   Clip light lens back in.

3. Insert light housing into the lining rear end first.
   Press front of housing up and click into place.
   Check operation of lights.

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Raised Brake Lights

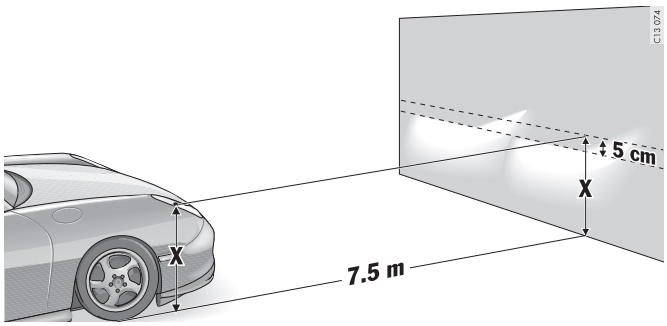
Changing bulb

1. Lever out right-hand corner segment of the lens with the screwdriver blade (arrow).
2. Turn lock of light housing counter-clockwise by approx. 90° and remove light.
3. Disengage all 6 securing tabs of the lamp bracket (arrow).
   Remove lamp bracket, take out defective bulb and replace.
4. Reassemble in reverse order.
   Check operation of the light.

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Center of the headlamp lens



Adjusting Headlights

See caution on "Replacing Bulbs".

Adjustment

The adjustment is made with the vehicle ready to drive and the fuel tank completely filled.

The driver's seat must be loaded by a person or a 165 lbs. (75 kg) weight and the tire pressures must meet the prescribed values.
After being loaded, the car must be rolled a few meters so that the suspension can settle.

For checking the headlight adjustment, the vertical position of the cutoff of the lowbeam (see fig.) has to be projected on a vertical screen (wall) in distance of 7.5 m from the front lens of the headlamp.
The correct position of the cutoff is 5 cm at 7.5 m (0.4°) below a horizontal line, **x** cm from ground to the center of the headlamp lens.

Distance

Visual aim shall be performed at not less than 7.5 m (this value is a rounded down conversion from the 25-foot distance typical of field aim using a screen). The 7.5 m distance is measured from the headlamp lens to the viewing screen.

Floor

The surface upon which the vehicle rests is flat and approximately level.

▷ ▷ ▷

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Screen

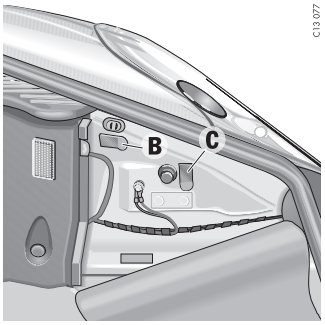
The screen upon which headlamp beams are projected is perpendicular to the floor and the vehicle's longitudinal axis, flat, uniformly light in color, unobstructed, and wide and high enough to accommodate the vehicle beam patterns to be aimed.

The screen should be wide enough to provide at least 1 m of space outboard of the vehicle's headlamp spacing.



Adjustment screws

▷ Detach side carpeting in luggage compartment.
Therefore unscrew plastic nut **A**.
Open the cover of the appropriate adjustment screw.
The setting is adjusted by turning the hexagon socket screws right or left, as appropriate.



B - *Headlight vertical adjustment*
C - *Fog light height adjustment*

Vertical adjustment (screw B)

▷ turn clockwise = beam moves down
turn counter-clockwise = beam moves up

Note

▷ Do not alter the lateral adjustment.

Fog light adjustment

The fog light adjustment **C** should only be done at a specialist workshop with an optical adjustment unit.

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Towing

Certain state statutes and local ordinances prohibit towing with a chain, rope or even a tow bar.
In addition, damage to your vehicle may result from improper procedures.
Consult your authorized Porsche dealer for details.

Vehicle towing

Flat bed towing is the preferred type of towing to be used on Porsche vehicles.
Under certain circumstances, wheel lifts may be used when the vehicle will not roll.
The vehicle must be towed with all four wheels off the ground, otherwise damage to the vehicle may result.

Towing eye

The towing eye is contained in the tool kit.

Caution!

Risk of damage to the vehicle.

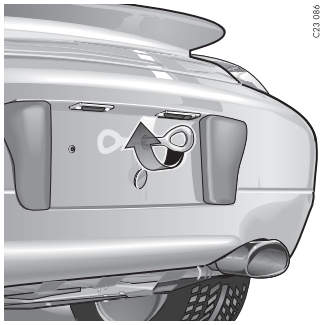
▷ Use the towing eye only for an emergency to remove the vehicle off the road. The towing eye is to be used only to pull the vehicle onto the flat bed, tractor or towing aparatus if the vehicle will roll freely. Under no circumstances is the vehicle to be secured using the towing eye.



▷ Never use the towing eye to tow this or any other vehicle.

Front mounting

1. Carefully remove the plastic cap beside the license plate with a screw driver.
2. Screw the towing eye into the hole.



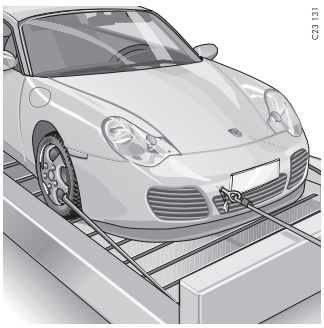
Rear mounting

1. Remove license plate.
2. Carefully remove the plastic cap between the bumpers with a screw driver.
3. Screw the towing eye into the hole.

▷ ▷ ▷

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Pulling vehicle onto flat bed

1. Position wooden ramps at the base of the flat bed to reduce the angle of the pull.

2. Reel in the hoist cable and check the underside of the vehicle for any interference.

Tieing down vehicle on flat bed

1. Carefully feed towing straps through the opening in the **rear wheels**.
   Make sure metal parts of straps do not damage rim.
   Make sure the strap is flat over the rim bead.
   Make sure brake backing plate is not damaged.

2. Secure straps to rear of flat bed.

3. Reel in hoist cable only far enough to tension tie-down straps.

4. Carefully feed towing straps through the opening in the **front wheels**.
   Make sure metal parts of straps do not damage rim.
   Make sure the strap is flat over the rim bead.
   Make sure brake backing plate is not damaged.

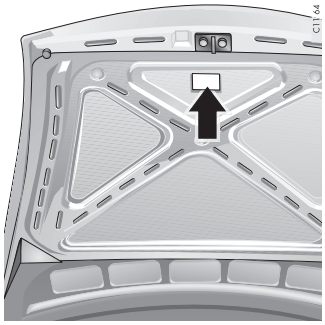
5. Secure straps to front of flat bed.

6. Release tension on hoist cable, but do not disconnect.
   Use hoist cable as a safety cable.

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Vehicle Identification, Technical Data

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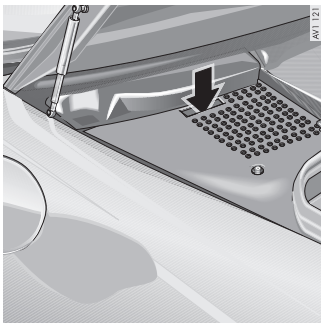
This label contains the following information:

1. Vehicle Identification No.
2. Type/Type description
3. Engine code/Transmission code
4. Paint No./Interior
5. Optional equipment

A duplicate of this label is in your Maintenance Booklet.

Note

This data bank cannot be re-ordered if it is lost or damaged.



Vehicle Identification

When ordering spare parts or making inquiries, please always quote the vehicle identification number.

Vehicle identification label

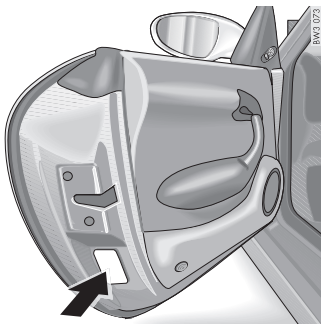
Vehicle identification label is attached to the inner side of the luggage compartment hood below the hood lock. It contains all important data about your car.

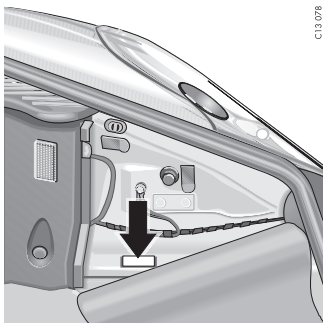
Vehicle identification number

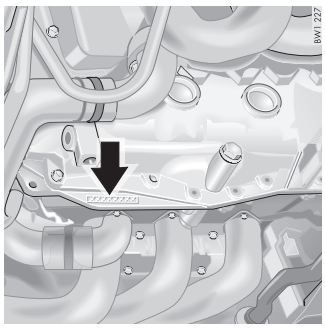
In accordance with Federal Safety Regulations, the vehicle identification number of your car is located at the bottom left of the windshield frame and can be seen from the outside.

The vehicle identification number is also in the luggage compartment on the right next to the battery (arrow).

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Safety compliance sticker

The safety compliance sticker is your assurance that your new Porsche complies with all applicable Federal Motor Vehicle Safety Standards which were in effect at the time the vehicle was manufactured.

The sticker also shows the month and year of production and the vehicle identification number of your car (perforations) as well as the **G**ross **V**ehicle **W**eight **R**ating and the **G**ross **A**xle **W**eight **R**ating.

Paint data

The paint data plate is attached to the left side wall under the carpet in the luggage compartment.

Engine number

The engine number is stamped on the underside of the crankcase.

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Technical Data

Engine data

Type	**M 96/70**	**M 96/70 E** (high-power version)
	Horizontally opposed engine, liquid cooled	
Number of cylinders	6	
Bore	3.94 in./100 mm	
Stroke	3.01 in./76.4 mm	
Cubic capacity	219.7 cu. in./3600 cm^3	
Compression ratio	9.4 : 1	
Net-horsepower, SAE J 1349	415 hp/309 kW	444 hp/331 kW
at crankshaft speed	6000 rpm	5700 rpm
Net torque, SAE J 1349	415 ft. lb./560 Nm	457 ft. lb./620 Nm
at crankshaft speed	2700 - 4600 rpm	3500 - 4500 rpm
Alternator	1680 W	
Firing order	1 - 6 - 2 - 4 - 3 - 5	
Engine control	Stationary high-voltage distribution, sequential injection, cylinder-selective knock-control, stereo oxygen sensor closed-loop control, diagnostic system, 4 overhead camshafts, Porsche VarioCam Plus, hydraulic valve clearance compensation	

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Transmission

Gear ratios	Manual transmission	Tiptronic S
1st gear	3.82 : 1	3.59 : 1
2nd gear	2.05 : 1	2.19 : 1
3rd gear	1.41 : 1	1.41 : 1
4th gear	1.12 : 1	1.00 : 1
5th gear	0.92 : 1	0.83 : 1
6th gear	0.75 : 1	
Reverse	2.86 : 1	1.93 : 1
		3.16 : 1
Final drive ratio	3.44 : 1	2.89 : 1

Driving Performance

At DIN empty weight and half load, without performance-inhibiting extra equipment

	Manual transmission	Tiptronic S
Maximum speed	189.4 mph/305 km/h	185.1 mph/298 km/h
high-power version	190.7 mph/307 km/h	186.3 mph/300 km/h
Acceleration 0 – 100 km/h (62 mph)	4.2 seconds	4.9 seconds
high-power version	4.2 seconds	4.5 seconds

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Tires, Rims, Tracks

		Tire	Rim	Rim offset	Track
Summer tires	front	225/40 ZR 18	8 J x 18 H2	50 mm	57.95 in./1472 mm
	rear	295/30 ZR 18	11 J x 18 H2	45 mm	60.16 in./1528 mm
or	rear	295/30 ZR 18	11 J x 18 H2	63 mm (only with 17 mm spacer ring)	60.08 in./1526 mm
Snow tires	front	225/40 R 18 88 H M+S	8 J x 18 H2	50 mm	57.95 in./1472 mm
	rear	*265/35 R 18 93 H M+S	10 J x 18 H2	47 mm	60.00 in./1524 mm

The load capacity coefficient (e.g. "88") and maximum speed code letter (e.g. "H") are minimum requirements.

Tire and rim sizes

Extensive tests are performed before specific tires and wheels are approved by Porsche.
Your Porsche dealer has information about approved tires and wheels and is happy to assist you.
If aftermarket tires and/or wheels are installed which are not approved by Porsche, the vehicle's roadability and handling characteristics might be impaired. Since Porsche has no data on such combinations, Porsche cannot stand behind the safety or durability of these aftermarket combinations.

Snow chains

Can be mounted only on the rear wheels; **maximum speed 30 mph/50 km/h.**
Use only Porsche authorized fine-link cross-type or edge chains.
Snow chain clearance can be guaranteed only on the tire + rim combination marked *.

Spare wheel

Vehicles **without** Porsche Ceramic Composite Brake: T165/70 - 16 92 P collapsible tire on 5.5 J x 16 rim.
Vehicles **with** Porsche Ceramic Composite Brake: 185/60 - 17 93 P collapsible tire on 5.5 J x 17 rim.
Maximum speed 50 mph/80 km/h. Always comply with the instructions in the chapter "Spare wheel".

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⚠ Warning!

Installation of sizes not authorized by Porsche may have a dangerous effect on the driving stability and could result in severe personal injury or death.

▷ Before mounting new tires, check with your Porsche dealer about the current release status.

Tire Pressures for cold tires

Summer tires and snow tires

Front	36 psi (2.5 bar) overpressure
Rear	44 psi (3.0 bar) overpressure

Collapsible spare wheel on vehicles without Porsche Ceramic Composite Brake

Front and rear	36 psi (2.5 bar) overpressure

Collapsible spare wheel on vehicles with Porsche Ceramic Composite Brake

Front and rear	41 psi (2.8 bar) overpressure

These tire pressures apply only to the tire makes and types approved by Porsche.
Always observe instructions in the chapter "Tires and Tire Care".

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Capacities

Use only fluids and fuels authorized by Porsche. Your authorized Porsche dealer will gladly advise you.
Your Porsche has been designed so that it is not necessary to mix any additives with oils or fuels.

Engine	Oil change quantity without oil filter approx. 8.2 quarts/7.8 liters Oil change quantity with oil filter approx. 8.5 quarts/8 liters Also refer to the section "Engine Oils".
Coolant	approx. 7.53 U.S. gallons/28.5 liters
Manual transmission and differential	approx. 4.0 quarts/3.8 liters
Tiptronic S	approx. 9.5 quarts/9 liters
Differential with Tiptronic S	approx. 1.27 quarts/1.2 liters
Fuel tank, refill volume	approx. 16.6 U.S. gallons/63 liters
Fuel quality	Your engine is designed to provide optimum performance and fuel economy using **unleaded premium fuel with an octane rating of 98 RON (93 CLC or AKI).** Porsche therefore recommends the use of these fuels in your vehicle. Porsche also recognizes that these fuels may not always be available. Be assured that your vehicle will operate properly on unleaded premium fuels with octane numbers of at least **95 RON (90 CLC or AKI)**, since the engine's "Electronic Oktane™ knock control" will adapt the ignition timing, if necessary.
Power steering	approx. 2.26 quarts/2.14 liters hydraulic fluid Pentosin CHF 11 S®
Brake fluid	approx. 0.67 quarts/0.63 liters; use only Original Porsche brake fluid
Windshield washer	approx. 6.9 quarts/6.5 liters with headlight washer

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Weights

	Manual transmission	Tiptronic S
Empty weight (depending on equipment)	3394.9 lbs./1540 kg	3494.1 lbs./1585 kg
Maximum gross weight	4155.5 lbs./1885 kg	4254.7 lbs./1930 kg
Maximum axle load, front*	1818.8 lbs./825 kg	1818.8 lbs./825 kg
Maximum axle load, rear*	2601.3 lbs./1180 kg	2601.3 lbs./1180 kg
Maximum useful load, Roof Transport System**	165.3 lbs./75 kg	165.3 lbs./75 kg

* The maximum gross weight must not be exceeded.
Note: If additional accessories are installed, the useful load will be correspondingly less.
** Use only Original Porsche Roof Transport System.

Dimensions

Length	174.74 in./4435 mm
Width	72.0 in./1830 mm
Height	51.02 in./1295 mm
Wheelbase	92.6 in./2350 mm
Ground clearance	4.3 in./110 mm
Turning circle	34.8 ft./10.6 m

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Diagrams

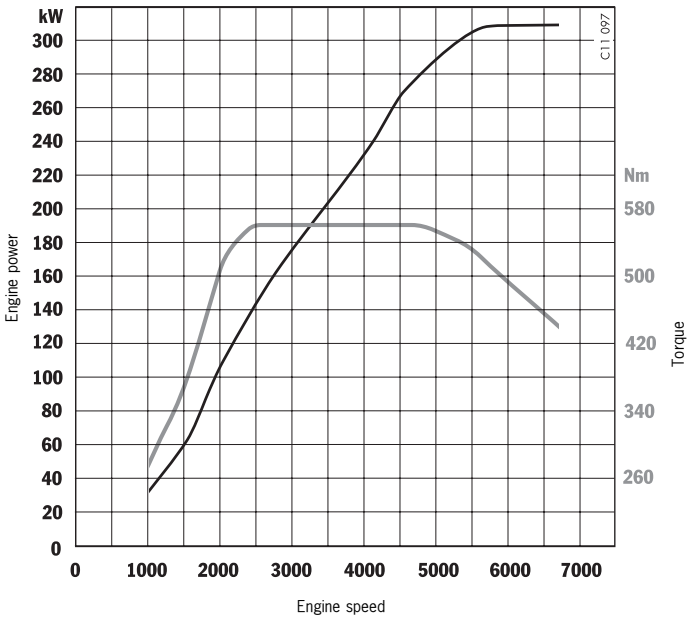
Acceleration diagram

Values have been determined at DIN empty weight and with a 50 % load without additional equipment.

Transmission diagram

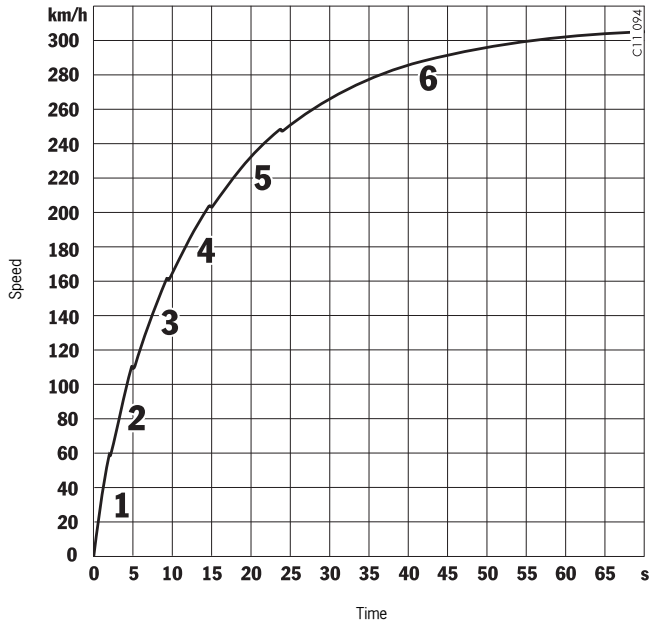
The transmission diagram is based on standard values on the basis of a mean effective scrub radius.
Changes of the scrub radius, the tire tolerance, wear and tear, deviating country equipment and tire slip have not been taken into account.

Engine diagram at full power



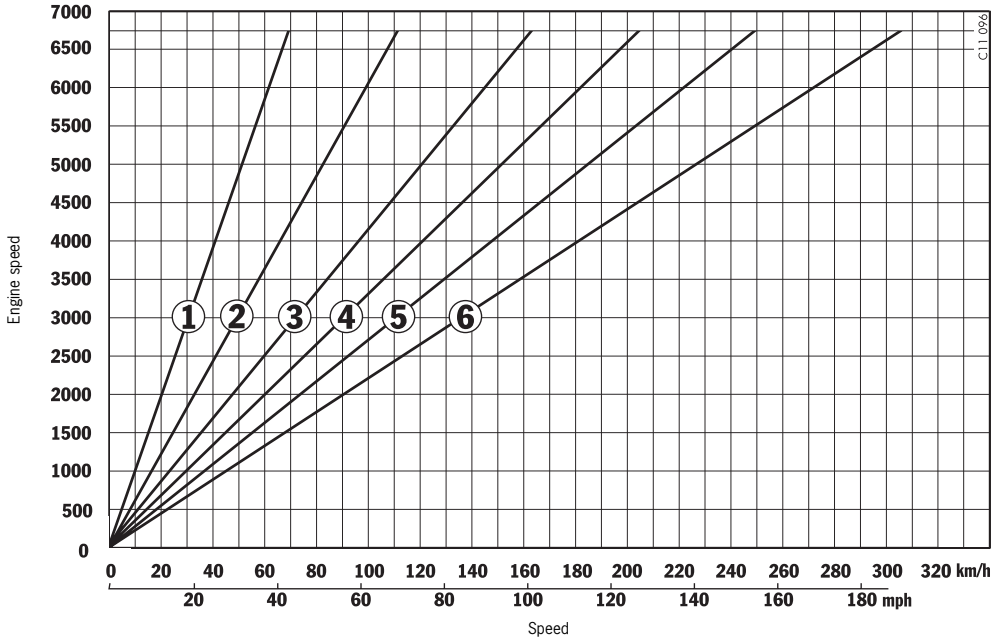
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Acceleration diagram Manual transmission



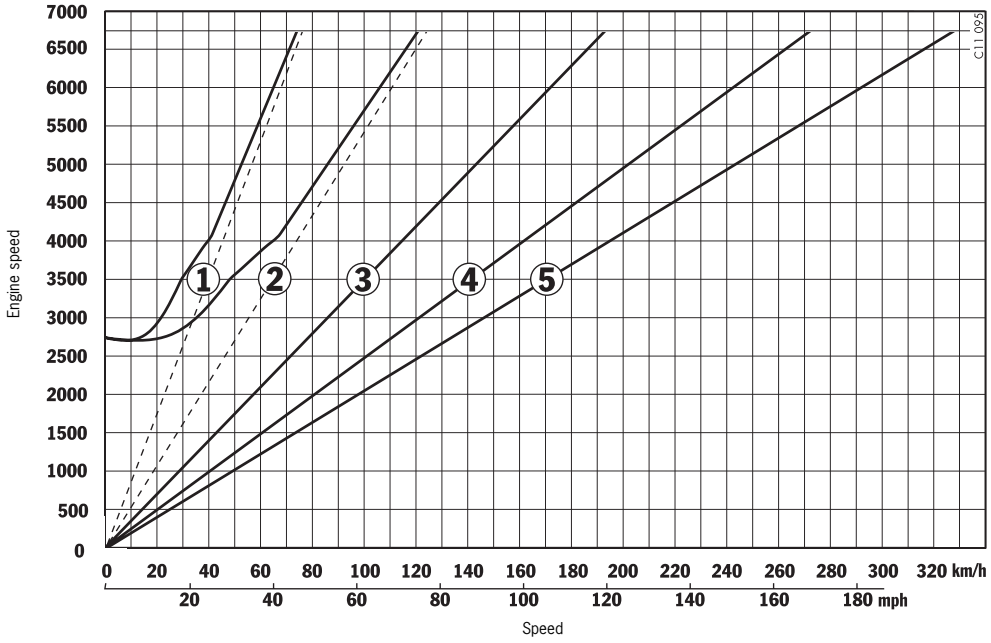
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Transmission diagram Manual transmission



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Transmission diagram Tiptronic



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