WKD 987 021 **06** 6/05

© Dr. Ing. h.c. F. Porsche AG

Porsche, the Porsche crest, Boxster, PCCB, Tiptronic and Tequipment are registered trademarks and the distinctive shapes of Porsche automobiles are trademarks of Dr. Ing. h.c. F. Porsche AG.

All rights reserved.

Printed in Germany

32654

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 (or366-0123 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. Modifications may be carried out on your vehicle only if approved by Porsche.

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 person al injuries.

The fitting of racing tires (e.g. slicks) for sporting events is not approved by Porsche. Very high cornering speeds can be achieved with racing tires. However, the resulting transverse acceleration values would jeopardize the adequate supply of oil to the engine.
Porsche therefore will not accept any warranty or accept any liability for damage occurring as a result of non-compliance with this provision.

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.

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 follow 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, ce manuel est également disponible en francais. Pour en obtenir un exemplaire, adressez-vous à votre concessionnaire ou écrivez à l'adresse ci-dessous.

Porsche Cars Canada, Ltd.
Automobiles Porsche Canada, LTEE

5045 Orbitor Drive
Building #8, Suite 200
Mississauga, Ontario
Canada L4W 4Y4

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

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.

Tire Pressures for Cold Tires

Summer tires and snow tires

17 inch wheels	front	29 psi (2.0 bar)
	rear	36 psi (2.5 bar)
18 inch wheels	front	29 psi (2.0 bar)
	rear	36 psi (2.5 bar)
19 inch wheels	front	32 psi (2.2 bar)
	rear	36 psi (2.5 bar)

▷ Please observe the chapter “TPC TIRE PRESSURE MONITORING” on Page 103.

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 found there. -

Porsche and the Environment

Environmental guidelines

We develop and produce exclusive vehicles 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

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 installations.
Water-base paints and new painting methods reduce solvent emissions by 70 per cent.
The water used in the painting installation is recirculated. 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.

Environmentally friendly vehicles

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

It has 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 observe the chapter “FUEL ECONOMY” on Page 194.

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 on-board computer.

▷ Please observe the chapter “WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER” on Page 116.

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 diffrent components and braking system, such as brake pads and 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 an authorized Porsche dealer about the current guidelines in effect before such use of your vehicle.

Setting and operation vehicle components when 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 resulting in serious personal injury or death.

▷ 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.

Ground Clearance

Please bear in mind the limited clearance of your car on uneven surfaces, when parking (curbs), on ramps, lifting platforms, etc.

Controls, Instruments	**11 – 160**
Shifting Gear	**161 – 168**
Mobile Roofs	**169 – 182**
Maintenance, Car Care	**183 – 218**
Practical Tips, Emergency Service	**219 – 275**
Vehicle Identification, Technical Data	**277 – 291**
Index	**292 – 296**

Controls, Instruments

Before driving off... 12
Break in hints for the first
2,000 miles/3,000 kilometers 14
Keys 17
Security Wheel Bolts 17
Central Locking in Cars without Alarm System 19
Doors 25
Alarm System,
Passenger Compartment Monitoring 26
Power Windows 28
Inside mirror 30
Automatic Anti-Glare Interior Mirror
and Door Mirrors 30
Door Mirrors 31
Seat Adjustment 34
Seat Memory 36
Heated Seats 38
Steering Wheel Adjustment 39
Multi-functional steering wheel 40
Sun Visors 41
Safety Belts 42
Child Restraint Systems 45
LATCH System
Child seat bracket on the passenger's seat 49
Airbag Systems 50
Clutch Pedal 56
Parking Brake 57
Brakes 58
ABS Brake System
(Antilock Brake System) 61
Sport Mode 63
Porsche Stability Management (PSM) 64
Porsche Active Suspension Management
(PASM) 67
Retractable Spoiler 68
Parking Aids 70
Operation, Instruments 72
Ignition/Starter Switch with anti-theft
Steering Lock 74
Starting Procedures 76
Stopping engine 77
Instrument Panel USA Models 79
Automatic Speed Control Indicator light 82
Instrument Illumination 82
Trip Odometer 83
Speedometer 84
Changing over between
Miles / Kilometers 84
Tachometer 85
Turn Signal Indicator Light 85
High Beam 85
Cooling System 86
Tiptronic 87
Fuel 88
Clock 89
Outside temperature 89
Check Engine Warning Light 90
Central warning light 91
Brake warning light USA 91
Brake warning light Canada 91
On-Board Computer (BC) 92
Light Switch 124
Welcome Home Lighting 124
Automatic Headlight Beam Adjustment 125
Turn Signal/ Headlight Dimmer/Parking light /
Flasher Lever 125
Windshield Wiper / Washer Lever 126
Automatic Speed Control 128
Air conditioning 130
Automatic air conditioning system 133
Central and side vents 136
Fresh-air intake 136
Emergency Flasher Switch 137
Ashtray 138
Cigarette Lighter 139
Sockets 140
Interior lights 141
Storage in the passenger compartment 142
Cupholder
(holder for drinks cans and cups) 144
Luggage Storage on
Engine Compartment Lid 146
Fire extinguisher 147
Trunk Entrapment 148
Luggage compartment lids 150
Luggage Compartment 152
Rear luggage compartment 153
Porsche Communication Management (PCM) 154
Car Audio Operation/Tips 155
HomeLink 158
Manual Transmission, Clutch 162
Tiptronic S 163
Convertible Top 170
Windstop 177
Hardtop 178

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 front 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.

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 airbag 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.
- Please observe the chapter "ENGINE EXHAUST" on Page 8.
- 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.

⚠ Danger!

Danger of fire in engine compartment due to burning cigars or cigarettes.

- Do not throw any lit cigars or cigarettes out of the vehicle.
  They can be blown into the air inlets by the air flow and cause a fire in the engine compartment.
- Please observe the chapter "ASHTRAY" on Page 138.

Break in hints for the first 2,000 miles/3,000 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 2,000 miles/3,000 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 2,000 miles/3,000 kilometers.

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 and break discs

New brake pads and 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.

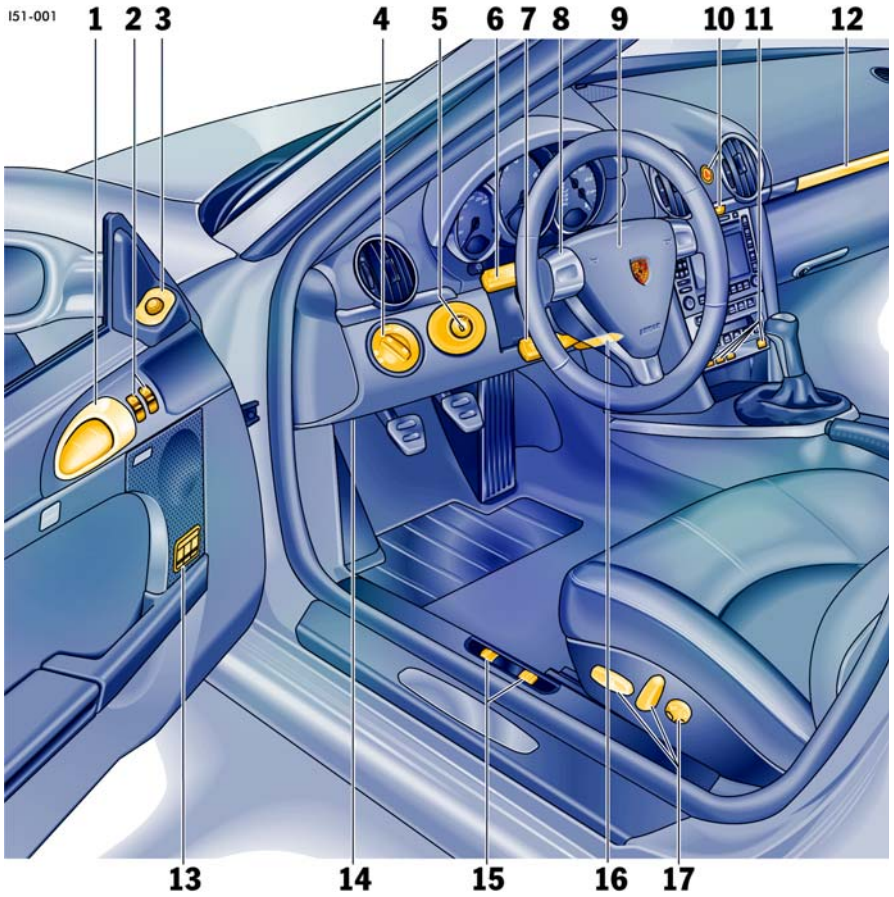
- ▷ Break in new tires by driving at moderate speeds during the first 60 to 120 miles/100 to 200 km. Longer braking distances must be anticipated.

Engine oil and fuel consumption

During the break-in period oil and fuel 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.



1 Inner door handle

2 Power windows

3 Door mirror control

4 Light switch

5 Ignition / starter switch

6 Turn signal / headlight dimmer, flasher lever

7 Operating lever for on-board computer

8 For vehicles with Tiptronic:
Toggle switches for Tiptronic

9 Horn

10 Emergency flasher switch,
central locking switch

11 Switches for rear spoiler,
Porsche Activ Suspension Management (PASM),
Sport mode,
Porsche Stability Management (PSM)

12 Cupholder

13 Switch for seat memory

14 Diagnostic socket

15 Lid release

16 Steering-wheel adjustment

17 Seat adjustment

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 convertible top
  (with the convertible top open, the passenger compartment monitoring system is always switched off).
- ▷ Lock glove compartment.
- ▷ Remove ignition key.
- ▷ Close storage tray between the seats.
- ▷ Remove valuables (e.g. car documents, telephone, house keys) from the car.
- ▷ Lock doors.

Keys

▷ Please observe the chapter “CENTRAL LOCKING IN CARS WITH ALARM SYSTEM” on Page 21.

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.

A total of 6 car keys can be taught.

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.

Switching off the immobilizer

▷ Insert the ignition key into the ignition lock.

If the ignition is left on for more than 2 minutes without starting the engine, the immobilizer is reactivated.

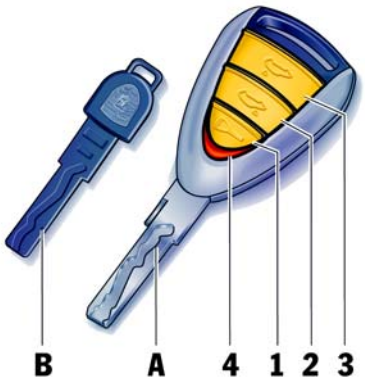
▷ If this happens, turn the ignition key back to the **3** position before starting the engine.
Please observe the chapter “IGNITION/STARTER SWITCH WITH ANTI-THEFT STEERING LOCK” on Page 74.

Switching off the immobilizer

▷ Remove ignition key.

Security Wheel Bolts

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



A - *Main key*
1 - *Central locking button*
2 - *Button for front luggage compartment lid*
3 - *Button for rear luggage compartment lid*
4 - *Light-emitting diode*
B - *Spare key*

Key with Radio Remote Control

Unlocking the vehicle

▷ Press button **1**.

Locking the vehicle

▷ Press button **1**.

I51-002

Switching off the alrm system if it is triggered accidentally

▷ Unlock the vehicle.

Unlocking front luggage compartment

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

Unlocking rear luggage compartment

▷ Press button **3** 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 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.

Malfunction of the remote control

The remote control may not function correctly due to local radio wave interference. The vehicle will then not lock properly.
This can be identified by the missing locking sound and the missing check-back signal of the hazard warning lights.

If this should occur:

▷ Lock the vehicle with the key in the door.

The remote-control standby function switches off after 7 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 car 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.

Central Locking in Cars without Alarm System

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

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device 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.

Warning!

Any changes or modifications not expressly approved by Porsche could void the user's authority to operate this equipment.

▷ Please observe the chapter "LOAD SWITCH-OFF AFTER 2 HOURS OR 7 DAYS" on Page 246.

▷ Please observe the chapter "SEAT MEMORY" on Page 36.

▷ Please observe the chapter "POWER WINDOWS" on Page 28.

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

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.

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.

Emergency operation – opening

▷ Unlock the driver's door with the key at the door lock.

Emergency operation – closing

▷ Lock the driver's door with the key at the door lock.
If there is a defect in the central locking system, all functioning elements of the central locking system will be locked.

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

Indication by emergency flasher

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

– Unlocking – single flash.

– Locking – double flash.

Overload protection

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

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.
Indicator light in the rocker switch lights up if ignition is on.
If the doors were locked with the central locking switch, they can be opened by pulling the inner door handle **twice**.

Unlocking

▷ Press the rocker-switch.
Indicator light goes off.

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 3 - 6 mph (5 - 10 km/h) 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 3 - 6 mph (5 - 10 km/h) 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.

On vehicles with the Sport Chrono package Plus, the PCM can be used to activate automatic door locking.

▷ Please observe the chapter “Individual Memory” in the separate PCM operating instructions.

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.

Central Locking in Cars with Alarm System

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

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device 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.

Warning!

Any changes or modifications not expressly approved by Porsche could void the user's authority to operate this equipment.

▷ Please observe the chapter "LOAD SWITCH-OFF AFTER 2 HOURS OR 7 DAYS" on Page 246.

▷ Please observe the chapter "SEAT MEMORY" on Page 36.

▷ Please observe the chapter "POWER WINDOWS" on Page 28.

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

The vehicle cannot be locked if the driver's door is not completely closed.

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:

– Doors
– Luggage compartment lids
– Convertible-top lock
– Glove compartment
– Passenger compartment

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

Note

On vehicles with the Sport Chrono package plus, the PCM can be used to activate automatic door locking.

▷ Please observe the chapter "Individual Memory" in the separate PCM operating instructions.

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 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 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.

Emergency operation – opening

▷ Unlock the driver's door with the key at the door lock.
Open door within 20 seconds and insert the ignition key into the ignition lock within 10 seconds to prevent the alarm system from being triggered.

Note on operation

If the door is not opened within approx. 20 seconds, automatic relocking takes place. The alarm system will be triggered by the next unlocking of the door:

▷ Insert the ignition key into the ignition lock to switch off the alarm system.

Emergency operation – closing

▷ Lock the driver's door with the key at the door lock.
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 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.
Indicator light lights up if ignition is on.

Unlocking

▷ Press the rocker-switch.
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.

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 3 - 6 mph (5 - 10 km/h) 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 3 - 6 mph (5 - 10 km/h) 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.

On vehicles with the Sport Chrono package Plus, the PCM can be used to activate automatic door locking.

▷ Please observe the chapter “Individual Memory” in the separate PCM operating instructions.

⚠ 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**

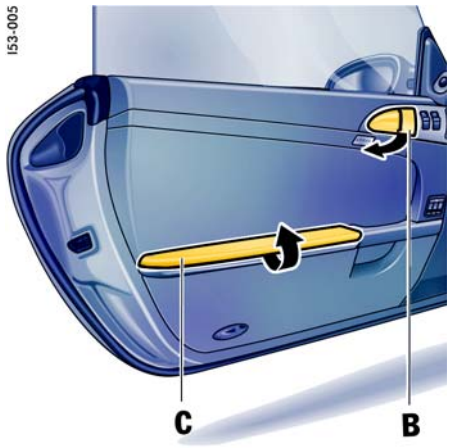
▷ pull the inside door handle **twice** to open the door.

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 15 seconds.



Doors

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 doors from outside

▷ Unlock vehicle with the remote control.

▷ 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.

▷ Please observe the chapter “LOCKING CONDITIONS” on Page 22.

Door storage tray

Opening storage tray

▷ Open the cover.

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

A - *Light-emitting diode for alarm system*

Alarm System, Passenger Compartment Monitoring

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

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and this device 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.

Warning!

Any changes or modifications not expressly approved by Porsche could void the user's authority to operate this equipment.

The alarm system and passenger compartment monitoring system are switched on when the doors are locked with the key or remote control.

▷ Please observe the chapter "CENTRAL LOCKING IN CARS WITH ALARM SYSTEM" on Page 21.

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

Note

The passenger compartment monitoring system is always switched off when the convertible top is open.

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 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

– Front and rear lids

– Convertible-top lock

– Glove compartment

– 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 four 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 passenger compartment monitoring system:

▷ Do not fold the backrests forward.

Deactivating the passenger compartment monitoring system for one locking process

If a person or animal remains in the car while it is locked, the 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.

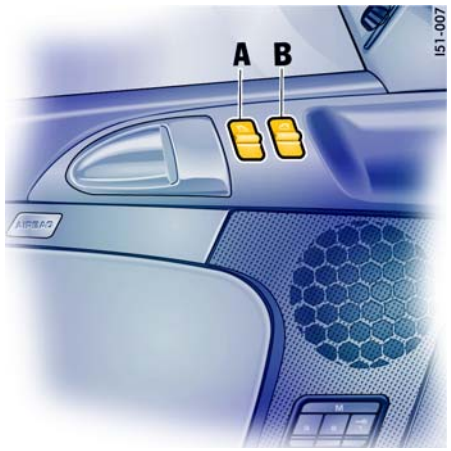
Note

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.



A - *Power window in driver's door*
B - *Power window in passenger's door*

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. Uniformed persons could injure themselves by operating the power windows.

▷ Do not leave children in the car unattended.

Readiness for operation of power windows

– When the ignition is switched on (engine switched on or off) **or**

– with doors closed and ignition key withdrawn, but only until door is first opened.
One-touch operation for closing the door windows is available only when the ignition is switched on.

Opening/closing windows

The two rocker switches in the driver's door and the switch in the passenger's door have a two-stage function.

Opening window with the rocker switch

▷ Press the rocker switch down to the first stage until the window has reached the desired position.

Closing window with the rocker switch

▷ Press the rocker switch upwards to the first stage until the window has reached the desired position.

One-touch operation

▷ Press the rocker switch upwards or downwards to the second stage.
Window moves to its final position.
Press again to stop the window in the desired position.

One-touch operation for closing the passenger's window is available once the window is approximately half-way closed.

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.

Closing door windows

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

One-touch operation (with ignition on)

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

Anti-crushing protection

If the door 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 "A" 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

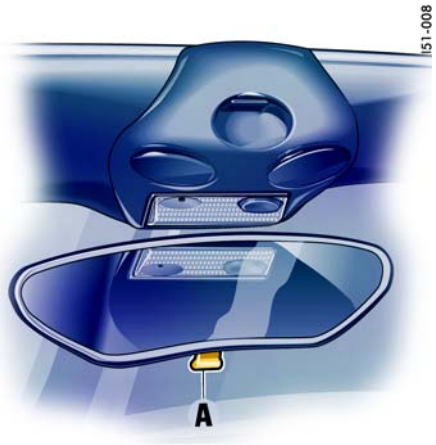
▷ Please observe the chapter "DOORS" on Page 25.

▷ Please observe the chapter "CONVERTIBLE TOP" on Page 170.

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.

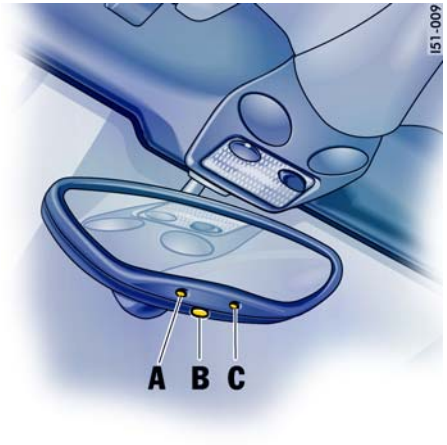
1. Close the windows with the rocker switch **once**.
2. Press front half of rocker switch again to store the end position of the windows in the control unit.



Inside mirror

When the mirror is being adjusted, the anti-glare lever **A** must point forward.

Basic position: lever forward
Anti-glare position: lever back



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

Automatic Anti-Glare Interior Mirror and Door Mirrors

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.

Note

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

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, leather and plastic parts. Electrolyte fluid can be removed only while it is still wet.

▷ Clean the affected parts with water.

Door 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.

Adjusting

1. Switch on ignition.
2. By turning the control switch **A**, select the driver's side or the passenger's side.
3. Move the door mirror glasses in the appropriate direction by tilting the control switch.

If the electrical adjustment facility fails

▷ Adjust mirror by pressing on the mirror face.

Automatically swivelling down mirror on the passenger's side

▷ Please observe the chapter "SEAT MEMORY" on Page 36.

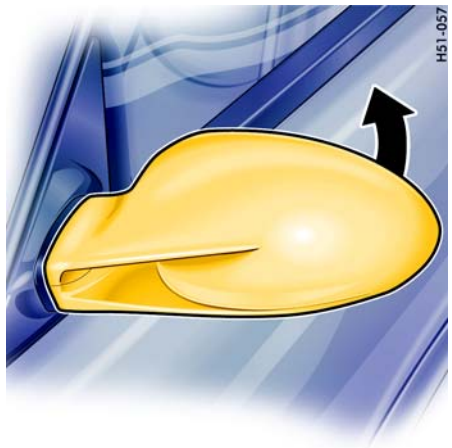
▷ Please observe the chapter "PARKING ASSISTANT (PARKASSISTANT)" on Page 70.

Folding in door mirrors

Warning!

Danger of injury to fingers if the mirror accidentally flips back when being folded in.

▷ Exercise extreme caution when folding in mirror by hand. Do not let go of the mirror before the locking lever is locked or the mirror is fully unfolded.



1. Push mirror towards the door window and continue to hold it (high spring force).
2. Swivel the locking lever up to the stop and slowly let go of the mirror.

Unfolding door mirrors

1. Push mirror towards the door window and continue to hold it (high spring force). The locking lever disengages automatically.

▷ Move mirror back to unfolded position by hand. Do not let go of the mirror beforehand.

Heated rear window/ Door mirror heating

The heated rear window/door mirror heater is ready for operation when the ignition is on.

Switching on

▷ Press button.
The light-emitting diode in the button lights up.

After approx. 15 minutes, the heater switches off automatically.
The heater can be switched back on by pressing the button again.

Switching off

▷ Press button.
The light-emitting diode in the button goes out.

Seat Adjustment

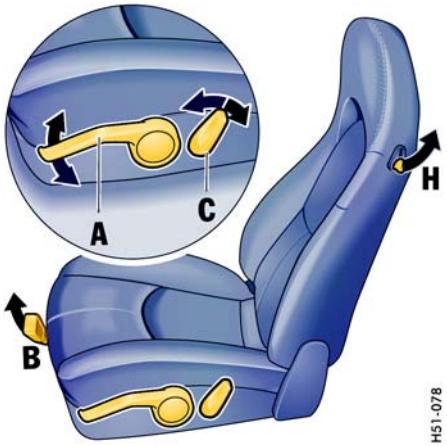
Warning!

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.

Safety belts only offer protection when the backrest is upright and the belts are properly positioned on the body.
Improperly positioned safety belts or safety belts worn by passengers in an excessively reclined position can cause serious personal injury in an accident.

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



Seat position

An ergonomically 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. Vehicles with manual transmission:
   Adjust the seat until, with the clutch pedal fully depressed, your leg remains at a slight angle.

   Vehicles with Tiptronic S:
   Adjust the seat until, with your left foot on the footrest, your left leg remains at a slight angle.
2. Rest your outstretched arm on the steering wheel.
   Set the backrest angle and the steering-wheel position so that your wrist rests on the outer rim of the steering wheel. At the same time, the shoulders must still be in noticeable contact with the backrest.
3. Adjust the seat height to give yourself enough headroom and a good overview of the vehicle.
4. Electrically adjustable seat:
   Adjust the seat angle until your thighs rest lightly on the seat cushion.

Manually adjustable comfort seat/sports seat

A Seat height

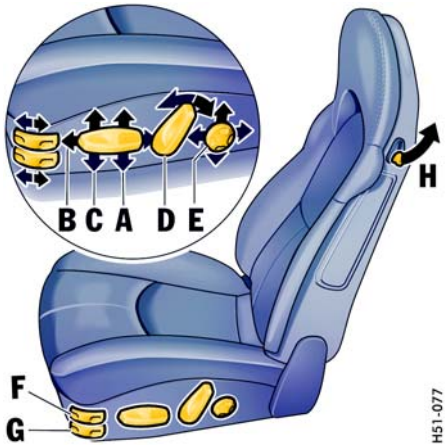
- ▷ Use lever **A** in a pumping movement:
  Upwards – seat moves upwards
  Downwards – seat moves downwards

B Fore and aft

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

C Backrest angle

- ▷ Operate switch **C** until the desired backrest angle is reached.



Electrically adjustable comfort seat/sports seat

▷ Press the switch in the direction indicated by the arrow until the desired setting is reached.

A Seat height adjustment

B Fore-and-aft position adjustment

C Seat angle adjustment

D Backrest angle adjustment

E Lumbar support (pelvis and spinal column support)

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

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

F Adjusting the backrest side bolsters (sports seat only)

▷ Push forward or pull backward switch **F** until the side bolsters are adjusted to the shape of the body.

G Adjusting the seat cushion side bolsters (sports seat only)

▷ Push forward or pull backward switch **G** until the side bolsters are adjusted to the shape of the body.

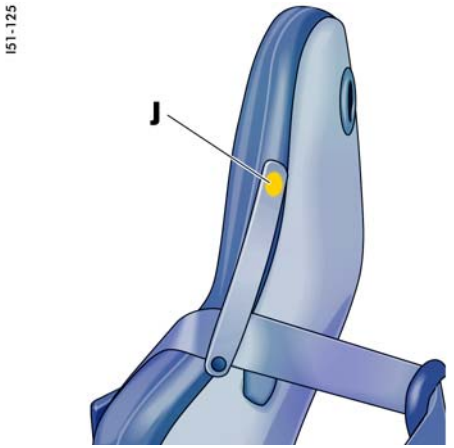
Seat backrest

Folding forward

▷ Pull up lever **H** 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 only

The seat belt can be fixed to the seat backrest with the retaining strap, so that it can be reached more easily for buckling up.

▷ Release button **J** at the top of the retaining strap, insert the seat belt and fasten the strap once more.

M - *Memory button*
1 - *Key button*
2, 3 - *Person buttons*

Seat Memory

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

Further individual setting options are available in vehicles with the Sport Chrono package Plus. Please observe the chapter "Individual Memory" in the separate PCM operating instructions.

⚠ Warning!

Risk of crushing due to uncontrolled recall of a seat setting.

- ▷ Cancel automatic adjustment by pressing any of the seat adjustment buttons.
- ▷ Do not leave children in the vehicle unattended.

Operation with person buttons 2, 3

Storing seat position

1. Switch on ignition.
   Reverse gear must not be engaged.
2. Set the desired seat and door-mirror positions.
3. Keep memory button **M** depressed and additionally press person button **2 or 3**.
   The individual setting is now stored under the desired person button.

Recalling seat position

The seat position can only be called up when the vehicle is stationary.

1. Switch on the ignition **or**
   open the driver's door.
2. Press person button until the seat has reached its final position.
   The door mirror and the lumbar support 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.

Operating with the remote control of the vehicle key

Each remote control (up to six) 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.

Storing seat position

1. Switch the ignition on with the desired vehicle key.
   Reverse gear must not be engaged.
2. Set the desired seat and door-mirror positions.
3. Keep memory button **M** depressed and additionally press key button **1**.
   The individual setting is now assigned to this remote control and to the key button.

Storing individual lowered position of the passenger's door mirror as a parking aid

Once the driver's seat setting has been stored, an individual lowered position of the passenger's door mirror may be stored for driving in reverse:

1. Apply the handbrake.
2. Switch the ignition on with the desired vehicle key.
3. Engage reverse gear.
4. Select passenger side with mirror switch.
   The passenger's mirror swivels downwards.
5. Set passenger's door mirror to desired final position.
6. Keep memory button **M** depressed and additionally press key button **1**.
   The individual setting is now assigned to this remote control and to the key button.

Recalling seat position

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

The seat position assigned to a remote control can also be recalled with the key button **1** if the corresponding key was used to switch on the ignition.

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

Note on operation

Automatic seat adjustment can be interrupted immediately:

– by switching on the ignition,
– by pressing the central locking button,
– by pressing any memory or seat adjustment button.

Clearing the stored seat position

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

▷ Press memory button twice and key button **1** once consecutively.

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

Heated Seats

Two-stage seat heating is ready for operation when the ignition is on.

Switching on

High heating power

▷ Press button.
Both light-emitting diodes in the button light up.

Low heating power

▷ Press the rocker-switch symbol again.
One light-emitting diode in the button lights up.

Switching off

▷ Press button.
Light-emitting diodes go out.

Steering Wheel Adjustment

⚠ Warning!

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

▷ Do not adjust the steering wheel when driving.

Adjusting steering wheel height and longitudinal direction

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

Multi-functional steering wheel

Warning!

There is a danger of accident if you set or operate 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 these components 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.

Depending on the equipment in your vehicle, you can use the function keys of the multi-functional steering wheel to operate the following Porsche communication systems:

- – PCM,
- – Telephone,
- – Radio with CD drive,
- – CD changer.

Readiness for operation of multi-functional steering wheel

The multi-functional steering wheel is ready for operation when the ignition **and** PCM are switched on.

Operating the function keys

- ▷ Please read the separate PCM operating instructions before operating the function keys.
- ▷ The rotary knobs at the top left and right of the steering wheel can also be pressed.

Turn volume control
Upwards – increase volume.
Downwards – decrease volume.
Press volume control
To switch volume/mute on and off.

Turn rotary knob
To select/mark function in the PCM. To do this, turn the rotary knob upward or downward.
Press rotary knob
To activate selected function.

Press screen button
To call the stored PCM function.
The button can be assigned the desired function in the PCM.

Press Back button
To move back in the PCM menu.

Press Handset Pickup button
To accept a telephone call.

Press Handset Hangup button
To end or refuse a telephone call.

Sun Visors

▷ Swing the sun visors down to prevent glare from the front.

Vanity mirror

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

⚠ Warning!

Risk of injury or risk of damage to mirror lid and convertible top.

▷ Keep the lid closed while driving and when closing the convertible top.

Risk of damage.

▷ Do not force the lid beyond its end position.

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

Safety Belts

Warning!

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

- For your and your passenger's 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 or death 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 excesssive 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.
  Please observe the chapter "CAR CARE INSTRUCTIONS" on Page 209.
- 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 an impact, fastened safety belts are tightened in an accident.

The belt tensioners are triggered by:

– Front, side and rear impacts of sufficient severity.

– Vehicle rollover.

Note

The belt tensioner system can be triggered only once; the system must be replaced afterward.

If there is a fault in the belt-tensioner system, the airbag warning light lights up.

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.

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 driver and passenger to buckle up.
In addition, the gong will sound for approx. 90 seconds if the vehicle speed exceeds 15 mph (24 km/h).
The safety belt warning light 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.

Fastening the safety belt

- 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.
- 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.

Releasing the safety 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 observe the chapter “AUTOMATIC LOCKING RETRACTOR” on Page 54.

Airbag Systems

The airbags in combination with the safety belts make up a safety system which offers the driver and the passenger the greatest known protection from injuries in case of accident.
Your vehicle is equipped with a weight sensing system for the passenger's seat in accordance with U.S. Federal/Canadian Motor Vehicle Safety Standard 208.

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

Below the deployment 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 wear safety belts at all times (in many states, state law requires the use of safety belts).

▷ Please observe the chapter “SAFETY BELTS” on Page 42.

The **front airbags** are located under the padded steering wheel panel on the driver’s side and, on the passenger's side, in the dashboard.
The **side airbags** for the front seats are installed on the side in the seat backrests.
The **head airbags** are installed in the door linings.

⚠ 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 it is deployed, inflating airbags can result in serious personal injury or death.
Improper handling of the weight sensing system can unintentionally impair switching the passenger's airbag off and on.

▷ 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.

▷ Always hold the steering wheel by the outer rim. Never rest your hands on the airbag panel.

▷ **Always fasten seat belts** because triggering of the airbag system depends on the force and angle of impact.

▷ Do not transport heavy objects on or in front of the passenger’s seat. These could impair the function of the airbag, the seat belts, and weight sensing.

▷ Do not hang objects (e.g. jackets, coats, coat hangers) over the backrest.

- Always keep the lid of the door storage compartment closed. Objects must not protrude out of the door storage compartment.
- No changes may be made to the wiring or components of the airbag system.
- Do not add any additional coverings or stickers to the steering wheel or in the area of the passenger airbag, side airbags and head 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 modify the seat coverings. Do not attach additional cushions, protective coverings, or pillows to the passenger's seat. Do not affix things to the passenger's seat or cover it with other materials. Do not cover the back of the backrest. Do not make changes to the passenger's seat and to the seat base frame.
- 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 inadvertent inflation.
- If the warning light comes on, the airbag system should be repaired immediately by your authorized Porsche dealer.
- Always keep feet in the footwell while driving. Do not put feet on the dashboard or the seat area. Do not lean against the inside of the door or outside the window while the vehicle is moving.
- Using accessories not approved by Porsche can cause the weight sensing system to be impaired.
- Do not squeeze objects, such as the fire extinguisher, or first aid kit under the seat.
- Only have seats removed and installed by an authorized Porsche dealer so that weight sensing components will not be damaged.
- Give your passenger all of the information in this chapter.

Note

Airbag components (e.g. steering wheel, door lining, seats) 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.

Function of the airbag system

The front airbags are triggered during a frontal collision of sufficient force and direction.
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 head and upper body, while simultaneously damping the motion of the driver and passenger in the impact direction in the event of a frontal impact or side impact.

Your vehicle is equipped with a crash sensing and diagnostic module. This module will record the use of the seat belt restraint system by the driver and passenger when the airbags and/or belt tensioner work.

Advanced Airbag

Your vehicle is equipped with a weight sensing system for the passenger's seat in accordance with U.S. Federal/Canadian Motor Vehicle Safety Standard 208.
Depending on the weight acting on the passenger's seat, the passenger's airbag will automatically be switched on and off.

Depending on the angle and force of impact, the passenger's airbag which is activated will be triggered during a collision.

Precondition for switching the passenger's airbag on and off, depending on weight:

– Vehicles equipped with key-operated airbag deactivation device:
  Switch position AUTO.
– Ignition key is inserted.

Seat adjustment for the passenger's seat

If the seat is in an extreme position (e.g., the backrest is in contact with the engine compartment wall), the backrest can warp. Warping of the backrest can lead to malfunctions.

- ▷ Correct the seat adjustment.
  Ensure that the seat is not jammed and is self-supporting.
  Ensure that the backrest is in the upright position.
- ▷ Do not transport a load and objects behind and under the passenger's seat.
  If the load or objects are under the seat, it can cause malfunctions.

If the weight on the passenger's seat is reduced significantly, e.g., by supporting weight on the armrest, the passenger's airbag can be switched off.

- ▷ Select an upright seat position, and do not support weight on the armrests or lean out of the window.
  Always keep feet in the footwell while driving. Do not put feet on the dashboard or the seat area. Do not lean against the inside of the door or outside the window while the vehicle is moving.

If the passenger's seat is warped significantly, a message is displayed on the on-board computer:

- ▷ Correct the seat adjustment.
- ▷ Please observe the chapter “WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER” on Page 116.

Automatic deactivation of the passenger's airbags

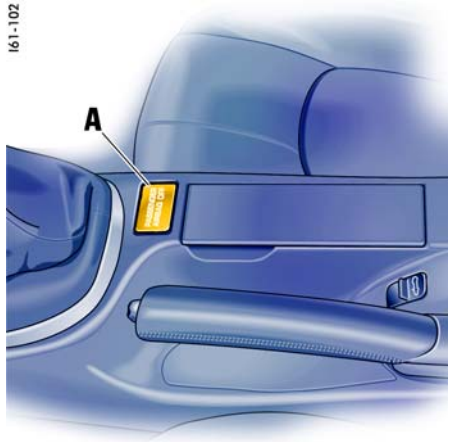
Danger!

The use of a child restraint system in the passenger seat can result in serious personal injury or death to the child from an airbag deployment.

- ▷ Please observe the chapter "PASSENGER AIRBAG OFF INDICATOR LAMP DOES NOT LIGHT UP" on Page 49.
- ▷ Before transporting a child on the passenger's seat:
  Please observe the chapter "CHILD RESTRAINT SYSTEMS" on Page 51.

– When an **up to one-year old child** is seated in the child restraint system, the front airbag is automatically deactivated on the passenger side.

– When an adult is seated in the front seat the front airbag remains active on the passenger's side.



A - *PASSENGER AIRBAG OFF indicator lamp*

Note on operation

Although not desired, it can occur in the case of heavier children that the passenger airbags remain active or, in the case of very light adults or young persons, that the passenger airbag is deactivated.

The condition of the passenger airbag system is shown by the indicator lamp **A**.

If in doubt:

- ▷ Please observe the chapter "PASSENGER AIRBAG OFF INDICATOR LAMP DOES NOT LIGHT UP" on Page 49.
- ▷ Please observe the chapter "KEY-OPERATED AIRBAG DEACTIVATION DEVICE" on Page 50.
- ▷ Please observe the chapter "CHILD RESTRAINT SYSTEMS" on Page 51.
- ▷ Please observe the chapter "LATCH SYSTEM CHILD SEAT BRACKET ON THE PASSENGER'S SEAT" on Page 55.

Note

- ▷ After inserting the ignition key, the PASSENGER AIRBAG OFF warning light lights up for a few seconds as a bulb check.

PASSENGER AIRBAG OFF indicator lamp lights up

– The passenger's airbag is switched off.

PASSENGER AIRBAG OFF indicator lamp does not light up

– The passenger's airbag is active and ready for operation.

– If the passenger's seat is not occupied, the PASSENGER AIRBAG OFF indicator lamp will also not light up, even though the passenger's airbag is switched off.

Danger!

Risk of serious personal injury or death due to the passenger airbag triggering unintentionally.

When the ignition is on and the up to one-year old child is seated in the child restraint system on the passenger's seat, the indicator lamp „PASSENGER AIRBAG OFF“ must be on.

If the “PASSENGER AIRBAG OFF” indicator lamp does not light up, it could indicate a fault in the system.
In this case:

▷ On vehicles **with** key-operated airbag deactivation device: Switch to position OFF.

▷ On vehicles **without** key-operated airbag deactivation device: Do not drive.

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

Note

The key switch for switching off the passenger's airbag in combination with the LATCH attachment bracket are not installed at the factory. They can be retrofitted.

▷ Please see your authorized Porsche dealer.

Warning light and warning message

Faults are indicated by a warning light in the instrument panel and a message on the on-board computer.

▷ Please observe the chapter “WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER” on Page 116.

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

– If the warning light does not light up when the ignition key is inserted **or**

– If the warning light does not go out once the engine is running **or**

– If the warning light appears while driving.

Airbag maintenance

In order to ensure long-term functioning, the airbag system must be inspected by an authorized Porsche dealer at the intervals recommended in your Maintenance Booklet.

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 attached to the sun visors.

For special recommendations on the use of child restraints:

▷ Please observe the chapter “CHILD RESTRAINT SYSTEMS” on Page 51.

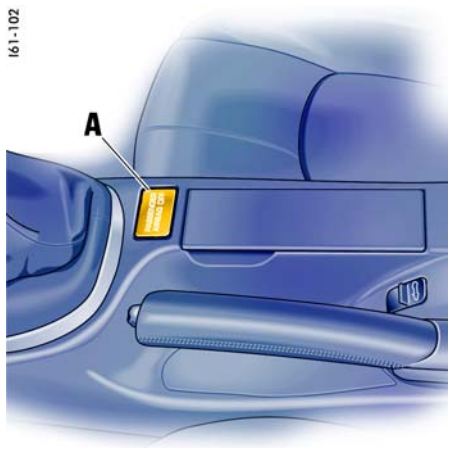
Key-operated airbag deactivation device

If in doubt about the status of the airbag, you can switch off the passenger's airbag on the key switch.

▷ Switch off the passenger's airbag on the key switch using the vehicle key.

Switch position AUTO – passenger's airbag system is active

Switch position OFF – passenger's airbag system is switched off



A - *PASSENGER AIRBAG OFF indicator lamp*

⚠ Danger!

Risk of serious personal injury or death for passenger if passenger's airbag remains switched off after the child restraint system is removed.

▷ Make sure that the key switch is switched to AUTO once the child seat has been removed, in order to provide protection to the adult occupants.

Warning light "PASSENGER AIRBAG OFF"

If the airbag on the passenger's side is switched off:

– Warning light "PASSENGER AIRBAG OFF" is continuously lit when the ignition key is inserted.

⚠ Danger!

Risk of serious personal injury or death from the passenger's airbag.
If the "PASSENGER AIRBAG OFF" warning light "A" is not lit when the ignition key is inserted and the Airbag OFF switch is switched to the OFF-Position, this could indicate a fault in the system.

▷ Do not install a child restraint system on the passenger's seat.

▷ Have the fault remedied immediately. Please see your authorized Porsche dealer.

Note

The key switch for switching off the passenger's airbag in combination with the LATCH attachment bracket are not installed at the factory. They can be retrofitted.

Please see your authorized Porsche dealer.

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.

Use only child restraint systems with the LATCH-system recommended by Porsche. These systems have been tested and adjusted to the interior of your Porsche and the appropriate child age groups. Other systems have not been tested and could entail an increased risk of injury or death.

You can obtain child seats that are LATCH compatible at your authorized Porsche dealer.

▷ Always observe the separate installation instructions for your child seat.

The use of infant or child restraints is required by law in all 50 states of the U.S. and all Canadian provinces. The child restraint system should be one that complies with U.S. Federal/Canadian Motor Vehicle Safety Standards and should be secured by a lap belt or lap belt portion of a lap-shoulder belt or for child seats equipped with the LATCH sytem (**L**ower **A**nchorage and **T**ether for **Ch**ildren, also known as ISOFIX) to the LATCH anchorages.
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!

The use of a child restraint system in the passenger seat 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:

▷ Please observe the chapter “PASSENGER AIRBAG OFF INDICATOR LAMP DOES NOT LIGHT UP” on Page 49.

▷ Please observe the chapter “CHILD RESTRAINT SYSTEMS” on Page 51.

Note

The key switch for switching off the passenger’s airbag and the LATCH attachment bracket are not installed at the factory. They can be retrofitted.

▷ Please see your authorized Porsche dealer.

⚠ 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.

– Choose a child restraint system according to the age and size of the child.

– Child restraint systems that are damaged or have been heavily stressed in an accident must be replaced immediately.

– Do not affix things to child restraint systems or cover it with other materials.

– Your authorized Porsche dealer will be glad to advise you about the installation possibility for a Porsche child restraint system which allows a key-operated airbag deactivation of the passenger’s airbag.

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

– Please observe the chapter “KEY-OPERATED AIRBAG DEACTIVATION DEVICE” on Page 50.

Direction of installation for child restraint systems

Children up to 9 months old

Children of this age must be transported in a restraint system which is installed on the passenger's seat **facing rearward**.

▷ The passenger's airbag must be deactivated.

Children aged between 9 months and 6 years

Children of this age are held in child restraint systems **facing forward**.

▷ The passenger's airbag must be deactivated when these systems are used on the passenger's seat.

Children aged between 6 and 12 years

Children of this age are held in child restraint systems **facing forward**.

▷ The passenger's airbag must be deactivated when these systems are used on the passenger's seat.
The passenger's airbag must be activated for children weighing over 59 lbs. (27 kg).

Using child restraint systems in the passenger seat

Danger!

The use of a child restraint system in the passenger seat 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:

- ▷ Please observe the chapter “PASSENGER AIRBAG OFF INDICATOR LAMP DOES NOT LIGHT UP” on Page 49.
- ▷ Please observe the chapter “CHILD RESTRAINT SYSTEMS” on Page 51.

Child restraint system for up to one-year old children

– Make sure that the PASSENGER AIRBAG OFF indicator lamp lights up.

– Adjust the passenger's seat as far away from the airbag as possible.

Danger!

Risk of serious personal injury or death due to the passenger airbag triggering unintentionally.

When the ignition is on and the up to one-year old child is seated in the child restraint system on the passenger seat the indicator lamp „PASSENGER AIRBAG OFF“ must be on.

If the “PASSENGER AIRBAG OFF” indicator lamp does not light up, it could indicate a fault in the system.
In this case:

- ▷ Do not use a child restraint system on the passenger’s seat.
- ▷ On vehicles with key-operated airbag deactivation device: Switch to position OFF.
- ▷ Have the fault remedied at your nearest authorized Porsche dealer.

Child restraint system for children older than one year

Your vehicle is equipped with a weight sensing system for the passenger's seat in accordance with U.S. Federal Motor Vehicle Safety Standard 208. Depending on the weight acting on the passenger's seat, the passenger's airbag will automatically be switched on or off.

Small adult passengers

Make sure that the PASSENGER AIRBAG OFF indicator lamp does not light up.

Danger!

Risk of serious personal injury or death due to the passenger airbag not triggering.

When the ignition is on and the small adult passenger is seated on the passenger’s seat, the indicator lamp “PASSENGER AIRBAG OFF” must be off.

If the “PASSENGER AIRBAG OFF” indicator lamp lights up, it could indicate a fault in the system.
In this case:

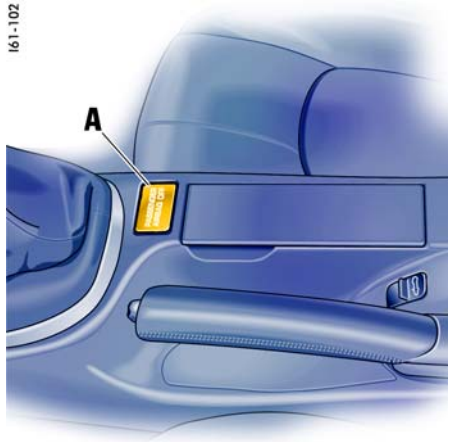
- ▷ Do not carry a passenger in the passenger’s seat.
- ▷ Have the fault remedied at the nearest authorized Porsche dealer.

Automatic locking retractor

The safety belt for the passenger is 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.

Before transporting a child on the passenger seat:

▷ Please observe the chapter “CHILD RESTRAINT SYSTEMS” on Page 51.



A - *PASSENGER AIRBAG OFF indicator lamp*

Danger!

Risk of serious personal injury or death to the child, when excessive force is acting on the passenger's seat due to the seat belt.
In such cases, the passenger's airbag can be switched on unintentionally.

▷ After fastening the child restraint system, do not adjust the seat.

▷ Check the condition of the passenger airbag system shown by the indicator lamp **A** in the central console.

Activating the automatic locking retractor

1. If a child restraint system must be fastened to the passenger's seat, adjust the passenger's seat as far away from the airbag as possible.
2. Fasten child seat.
3. Pull the safety belt retractor completely out. At this point the locking mechanism is activated.
4. Insert the safety belt tongue into the buckle and make certain that it is properly latched. Make no more adjustments to the seat.
5. 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.
   Make sure that excessive seat belt forces do not occur by moving the seat with the child seat installed.

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.
   Seek appropriate advice from your authorized Porsche dealer about the possible installation of a Porsche child restraint system.

LATCH System

Child seat bracket on the passenger's seat

The key switch for switching off the passenger's airbag and the LATCH attachment bracket are not installed at the factory. They can be retrofitted.

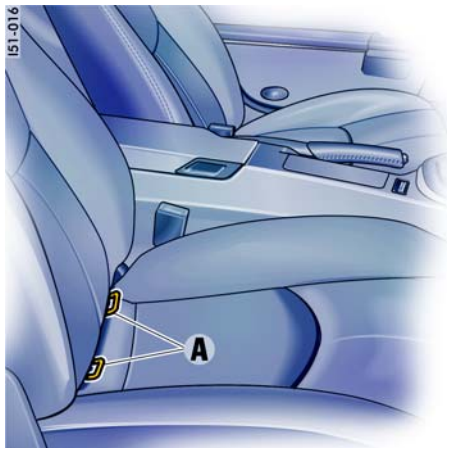
▷ Please see your authorized Porsche dealer.

Porsche recommends the use of a Porsche Child Seat with **L**ower **A**nchorage and **T**ether for **Ch**ildren system (LATCH).
These systems have been tested and adjusted to the interior of your Porsche and the appropriate child age groups. Other systems have not been tested and could entail an increased risk of injury.

You can obtain child seats that are LATCH compatible at your authorized Porsche dealer.

▷ Always observe the separate installation instructions for your child seat.

▷ Please observe the chapter "CHILD RESTRAINT SYSTEMS" on Page 51.



Installing a LATCH child seat system

1. Secure the child seat to retaining lugs **A** as outlined in the instruction manual for the child seat.
2. Pull the child seat to check that both fastening points are engaged correctly.

Note

Make sure that the key switch is switched to AUTO once the child seat has been removed, in order to provide protection to the adult occupants.

Clutch Pedal

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

⚠ Warning!

Risk of an accident.

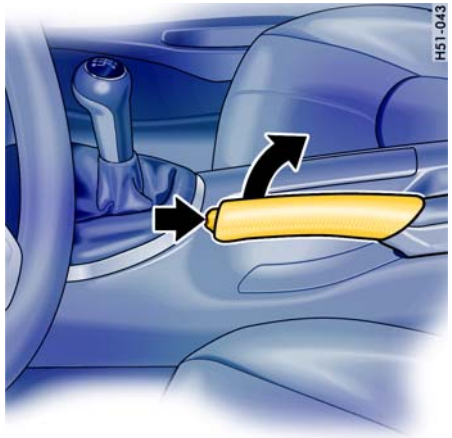
- ▷ Always check the movement of the clutch pedal before driving and make sure that it is not obstructed by a floor mat or any other object.
- ▷ Secure the floor mat to prevent it from sliding into positions that could interfere with the safe operation of your vehicle.
  Your Porsche dealer will be glad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

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 larger, 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.

Danger!

Risk of serious personal injury or death. A partially engaged parking brake may allow the vehicle to roll, causing serious personal injury or death to any person in its path.

▷ Engage the parking brake fully.

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.

BRAKE Parking brake warning light USA

Parking brake warning light Canada

The parking brake 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.

Vehicles without Porsche Ceramic Composite Brake (PCCB)

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 a 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.

BRAKE Brake warning light USA

Brake warning light Canada

If the warning lights in the instrument panel and onboard 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" to 1-9/16" 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 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.

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.

If this happens, ABS and PSM will also not operate.

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 the brakes to squeal.

New brake pads or linings

New brake pads 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.

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.

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 onboard 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.

Sport Mode

A sportier car set-up is obtained when Sport mode is switched on. Interventions by the Porsche control systems are intentionally shifted towards greater agility and driving performance.

– PASM (Porsche Active Suspension Management) is automatically changed to Sport mode, resulting in a stiffer suspension setup.

– The Tiptronic S switches to a sporty gear-changing map and shortens the gear shifting periods. Gear changes take place faster.

– PSM (Porsche Stability Management) control is sporty. PSM interventions take place later than in Normal model. The driver can manoeuvre the vehicle with greater agility at its performance limits, without having to dispense with the assistance of PSM in emergency situations.

– The electronic accelerator pedal reacts sooner, and the engine is more responsive to throttle inputs. When Sport mode is switched on, this function is activated only after the driver has floored the accelerator pedal or released it briefly.

– The rpm limiter characteristic is “harder”, i.e. the engine is immediately throttled when the performance limits are reached.

▷ Please observe the appropriate chapters of this Manual.

Switching Sport mode on and off

▷ Press SPORT button in the center console. When Sport mode is switched on, the light-emitting diode in the SPORT button is lit.

When Sport mode is switched on, the logo SPORT appears next to the digital speedometer.

Switching Sport mode on and off simultaneously activates and deactivates the Sport mode of the PASM.
If PASM Sport mode was activated with the PASM button, PASM remains active.

After the ignition is switched off, Sport mode and PSAM Sport mode are automatically reset to Normal mode.

Porsche Stability Management (PSM)

PSM is an active control system for stabilisation of the vehicle during extreme driving manoeuvres.

⚠ 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 maneuvres (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

PSM is switched on automatically every time you start the engine.

Function

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

- – Speed
- – Direction of travel (steering angle)
- – Lateral acceleration
- – Rate of turn about the vertical axis

PSM uses these values to determine the direction of travel desired by the driver.
PSM intervenes and corrects the course if the actual direction of motion deviates from the desired course (steering-wheel position):
It brakes individual wheels as needed. In addition, the engine power may be manipulated in order to stabilise 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 multi-functional information light on the instrument panel flashes.
- – 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.
  In order to achieve full vehicle deceleration, foot pressure must be increased after the brake pedal has begun pulsating.

Examples of PSM control operations

– If the “front wheels of the vehicle drift” on a bend, the rear wheel on the inside of the bend is braked and the engine power is reduced if necessary.

– If the rear of the vehicle swings out on a bend, the front wheel on the outside of the bend is braked.

PSM should always be switched on during “normal” driving.
However, it may be advantageous to switch off PSM temporarily in exceptional situations, for example:

– On a loose surface or in deep snow,

– When “rocking the vehicle free”, or

– When using snow chains.

Switching off PSM

▷ Press the PSM OFF button.
PSM is switched off after a short delay.
The light-emitting diode in the button is illuminated.
When the PSM is switched off, the multifunctional PSM light on the instrument panel is lit and a message is shown by the on-board computer.
An acoustic signal also sounds.

The following functions stabilise the vehicle in emergency situations, even with PSM switched off:

– When PSM is off, the vehicle is stabilised as soon as one of the two front wheels enters the ABS control range.

– When PSM is off and Sport mode is on, the vehicle is stabilised as soon as both front wheels enter the ABS control range.

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

Switching PSM back on

▷ Press PSM OFF button.
PSM is switched on after a short delay.
The light-emitting diode in the button and the multifunctional PSM light go out.
The on-board computer shows a message.

Sport mode

A sportier car set-up is obtained when Sport mode is switched on.
PSM interventions are later than in Normal mode; the vehicle can be manoeuvred with greater agility at its performance limits, without the need to dispense with the assistance of PSM in emergency situations. This helps to achieve optimal lap times, particularly on race circuits and a dry road surface.

Multifunctional PSM light

- The multifunctional light on the instrument panel lights up for a lamp check when the ignition is switched on.
- The light indicates a control operation by flashing, including when PSM is switched off (brake control in the event of one-sided wheel spin).
- In conjunction with a message on the on-board computer, the light indicates that PSM is switched off.
  An acoustic signal also sounds.
- Faults are displayed by the light in conjunction with a message on the on-board computer. PSM is out of order.

▷ Please go to a qualified specialist workshop. We recommend a Porsche partner for this work as they have trained workshop personnel and the necessary parts and tools.

▷ Please observe the chapter “STORING YOUR PORSCHE” on Page 218.

Towing

▷ Please observe the chapter “TOWING” on Page 274.

Checks on test stands

When carrying out **brake tests** on roller test stands a maximum testing speed of 5 mph (8 km/h) must not be exceeded.

Handbrake checks on the roller brake tester must be performed only with the ignition switched off.

Porsche Active Suspension Management (PASM)

PASM makes two running-gear setups available to the driver: “Normal” and “Sport”.
The selection is made via a button on the centre console.

In Normal mode the running gear is in a sporty and comfortable setup.
Sport mode offers a markedly sporty shock absorber tuning (e.g. for driving on the race circuit).

The variable suspension system selects the appropriate damping level for each wheel according to the situation and conditions of driving.

Example:
If the vehicle is driven in a markedly sporty manner in Normal mode, PASM automatically adapts the shock-absorber behavior to the driving situation in this case as well.

Switching on PASM Sport mode

▷ Press PASM button in the center console.
When PASM Sport mode is switched on, the light-emitting diode in the button is illuminated **and** a message is shown by the on-board computer.

Switching off PASM Sport mode

Press PASM button in the center console.
The light-emitting diode in the button goes out **and** the on-board computer displays a message for a limited amount of time.

After the ignition is switched off, PASM is automatically reset to Normal mode.

Retractable Spoiler

The rear spoiler improves driving stability, especially at higher speeds.

Automatic control

The spoiler extends at approx. 75 mph (120 km/h) and retracts at approx. 50 mph (80 km/h).

If automatic control fails, the warning light lights up and the spoiler must be extended manually before driving.

Warning!

Risk of accident. If the spoiler cannot be extended, driving stability will be adversely affected by increased rear axle lift.

- ▷ Adapt your driving style and speed to the changed driving conditions.
- ▷ Have the fault remedied at an authorized Porsche dealer.

Risk of injury during manual retraction or extension of the spoiler with the vehicle stationary.

- ▷ Make sure that no persons or objects are within the range of movement of the spoiler.

Risk of damage, if the vehicle is pushed using the spoiler.

- ▷ Do not push the vehicle at the spoiler.

Warning light

The warning light lights up for a lamp check when the ignition is switched on.

The warning lights in the instrument panel and in the on-board computer come on if the spoiler does not extend or does not reach its final position at more than 75 mph (120 km/h).

Manual control

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

Extending

▷ Press button briefly.
The spoiler extends to its final position.
The light-emitting diode in the button lights up.

Running in

▷ Press and hold button until the spoiler has reached its final position.
The light-emitting diode in the button goes out.

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.

Parking Aids

Parking Assistant (ParkAssistant)

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

⚠ Danger!

Risk of serious personal injury or death. ParkAssistant cannot detect small objects such as children and pets.
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, especially small children, animals or obstacles are within the maneuvring 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.

I53-108

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.

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.

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.

▷ Please observe the chapter "SEAT MEMORY" on Page 36.

– When reverse gear is engaged, the mirror glass on the passenger's side swivels down slightly to show the curb area.

Preconditions

– Vehicle must be equipped with seat memory.

– Set the control switch **A** to "passenger's side".

– Reverse gear must be engaged.

Returning mirror glass to its original position

▷ Drive forwards with a speed of over 4 mph (6 km/h) **or**

– Set the control switch **A** to "driver's side".

Operation, Instruments

1 Light switch

2 Turn signals/
headlight dimmer/flasher lever

3 Ignition Lock/locking the steering column

4 Hands-free microphone for telephone

5 Horn

6 Windshield wiper/washer lever

7 Porsche Communication Management/Radio

8 Interior temperature sensor, GPS antenna

9 Emergency flasher switch

10 Central locking button,
Readiness display for alarm system

11 Cupholder

12 Operating lever for on-board computer

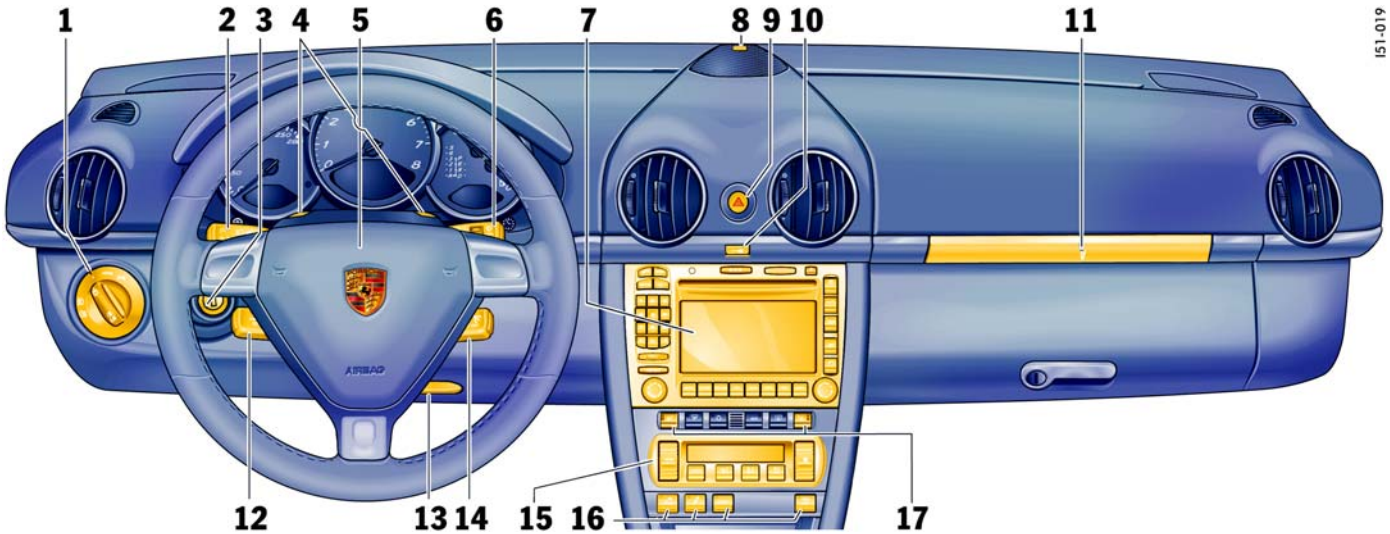
13 Locking lever for steering-wheel adjustment

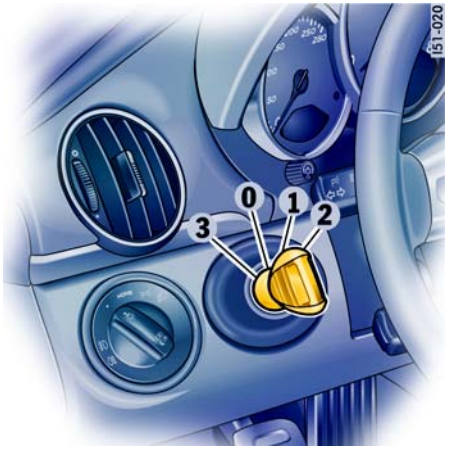
14 Operating lever for cruise control

15 Control panel for heating, ventilation and air conditioning system

16 Buttons for rear spoiler,
Porsche Active Suspension Management (PASM),
Sport Mode,
Porsche Stability Management (PSM)

17 Seat heating, left/right


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
I51-019



Ignition/Starter Switch with anti-theft Steering Lock

The ignition lock has a total of four ignition lock positions.
The vehicle key rebounds to the initial position from every ignition lock position.

For your safety, fasten safety belts.

- ▷ Please observe the chapter “IMMOBILIZER” on Page 17.
- ▷ Please observe the chapter “KEY WITH RADIO REMOTE CONTROL” on Page 18.

Before starting the engine

- ▷ Apply the footbrake.
- ▷ **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

Initial position

The ignition key cannot be withdrawn when the ignition is switched on or when the engine has been started.

To withdraw the ignition key:

- ▷ Stop the vehicle.
- ▷ **On vehicles with Tiptronic S:**
  Move selector lever to position **P**.
- ▷ Switch ignition off.
- ▷ Remove ignition key.

Switch position 1

Ignition on

- ▷ Turn ignition key to position **1**.
  Ignition is switched on.

Note on operation

All electrical equipment can be switched on.

- ▷ Please observe the chapter “WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER” on Page 116.

Switch position 2

Start engine

- ▷ Turn ignition key to ignition lock position **2**.
- ▷ Please observe the chapter “STARTING PROCEDURES” on Page 76.

Switch position 3

Ignition off

- ▷ Turn ignition key to ignition lock position **3**.

Locking the steering column

Automatic locking

The steering column is automatically locked when the ignition key is withdrawn from the ignition lock.

⚠ 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.
- ▷ **Always withdraw the ignition key** when leaving the vehicle.

Automatic unlocking

The steering column is automatically unlocked when the ignition key is inserted into the ignition lock.

Note

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

Please observe the chapter “BULB CHART” on Page 259.

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.

Starting Procedures

- ▷ Please observe the chapter “IMMOBILIZER” on Page 17.
- ▷ Please observe the chapter “EMISSION CONTROL SYSTEM” on Page 200.

⚠ 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.

Starting the engine

- ▷ Turn ignition key to ignition lock position **2**.
- ▷ 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.
- ▷ 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.
- ▷ Do not let the engine idle to warm up.

⚠ 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.

Stopping engine

- ▷ Turn key back to position **3**.
- ▷ 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!

Danger of injury. 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 fan

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

⚠ Warning!

Risk of injury.
After the engine is switched off, the engine-compartment temperatures is monitored for approx. 30 minutes.
During this period, and depending on temperature, the engine-compartment blower may continue to run or start to run.

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

Risk of injury. The radiator fans in the front end of the car may be operating or unexpectedly start operating when the engine is switched on.

- ▷ Carry out work in these areas only with the engine switched off.

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.

1
2
3
4
5
3
6
7
8
153-021
MPH
ABS
BRAKE
mph
9
10
11
12
13
14
15
16
17
18
19
20
21
22

Instrument Panel USA Models

Also refer to the corresponding chapter in the Owner's Manual.

1 Speedometer with analogue display

2 Tire pressure warning light

3 Turn signal indicator light left/right

4 Tachometer

5 High beam indicator light

6 ABS warning light

7 Cooling system
Temperature gauge, warning light

8 Fuel
Level gauge, warning light

9 Adjusting button for instrument illumination and trip counter

10 Odometer and daily trip mileage display

11 Automatic speed control indicator light

12 Light sensor for instrument illumination

13 Airbag warning light

14 Emission control warning light (Check Engine)

15 Central warning light

16 On-board computer display

17 Porsche Stability Management
Multifunctional PSM light

18 Brake warning light

19 Safety belt warning light

20 Tiptronic indicator

21 Clock and outside temperature display

22 Adjustment button for clock

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.

1
2
3
4
5
3
6
7
8
161-021
km/h
0 km/h
123248
433.5km
9:11
20.0°C
9
10
11
12
13
14
15
16
17
18
19
20
21
22

Instrument Panel Canada Models

Also refer to the corresponding chapter in the Owner's Manual.

1 Speedometer with analogue display

2 Tire pressure warning light

3 Turn signal indicator light left/right

4 Tachometer

5 High beam indicator light

6 ABS warning light

7 Cooling system
Temperature gauge, warning light

8 Fuel
Level gauge, warning light

9 Adjusting button for instrument illumination and trip counter

10 Odometer and daily trip mileage display

11 Automatic speed control indicator light

12 Light sensor for instrument illumination

13 Airbag warning light

14 Emission control warning light (Check Engine)

15 Central warning light

16 On-board computer display

17 Porsche Stability Management
Multifunctional PSM light

18 Brake warning light

19 Safety belt warning light

20 Tiptronic indicator

21 Clock and outside temperature display

22 Adjustment button for clock

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.

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

Automatic Speed Control Indicator light

Indicates automatic speed control readiness.

Instrument Illumination

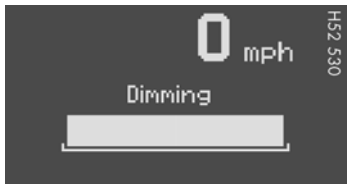
The illumination is automatically adjusted to the ambient brightness by the light sensor in the tachometer.

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.

Note

When the car lights are switched on, the scale lighting for light dials switches on and off automatically depending on the ambient brightness.

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.
  Please observe the chapter “SET BASIC SETTING ON ON-BOARD COMPUTER” on Page 113.

After exceeding 6,213 miles or 9,999 kilometers, the counter returns to “0”.

Speedometer

The digital speedometer is integrated in the on-board computer.
The indication changes from mph to km/h when the units are changed from miles to kilometers.

Changing over between Miles / Kilometers

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

▷ Please observe the chapter “SET BASIC SETTING ON ON-BOARD COMPUTER” on Page 113.

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 1,500 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.

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.
  Please observe the chapter “COOLANT LEVEL” on Page 186.

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.
  Please observe the chapter “COOLANT LEVEL” on Page 186.

Caution!

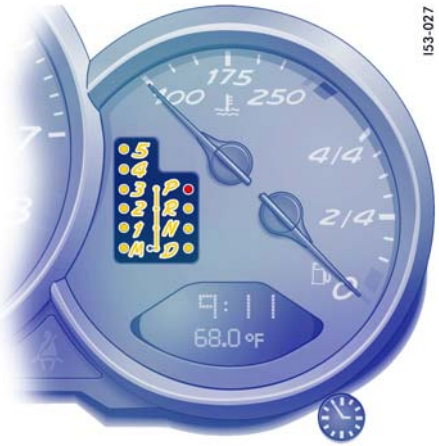
Risk of engine damage.

- ▷ 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.

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.



153-027

Tiptronic

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 corresponding 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:

– The **4th gear** display flashes.

– The warning “Tiptronic emergency run” appears on the on-board computer.

▷ Please observe the chapter “EMERGENCY PROGRAM” on Page 168.

▷ Have the fault repaired immediately at an authorized Porsche dealer.

▷ Please observe the chapter “TIPTRONIC S” on Page 163.

Fuel

Level gauge

When the ignition is on the fuel level is displayed.

▷ Please observe the chapter “CAPACITIES” on Page 286.

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. 2.6 U.S. gallons (10 liters) 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.

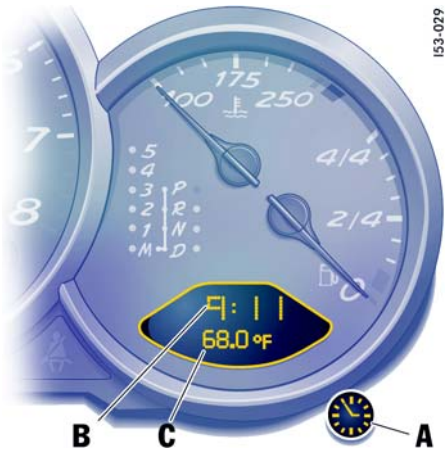
▷ Never drive the tank completely out of fuel.

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

▷ Please observe the chapter “EMISSION CONTROL SYSTEM” on Page 200.

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.



A - *Adjustment button for clock*
B - *Clock*
C - *Outside temperature display*

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.

Outside temperature

The outside temperature display **C** 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.

Battery

If the battery voltage drops abruptly, a warning message will be displayed by the on-board computer.

If the warning is displayed by the on-board computer 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.

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.

Central warning light

The central warning light on the instrument panel lights up if there are warning messages in the INFO menu.

The messages can be called in the on-board computer INFO menu:

▷ Please observe the chapter “INFO WARNING MESSAGES” on Page 96.

Brake warning light USA

Brake warning light Canada

The warning light on the instrument panel lights up:

– if the handbrake is on,

– if the brake fluid level is low,

– if the brake pads have reached the wear limit,

– if the brake circuit division is defective.

Additionally, a warning is displayed by the on-board computer.

▷ Please observe the chapter “WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER” on Page 116.

I52-030

H51-023

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 operational 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 **3** or down **4**.

Confirming selection (Enter)

▷ Push the lever forward **1**.

Moving back one or several selection levels

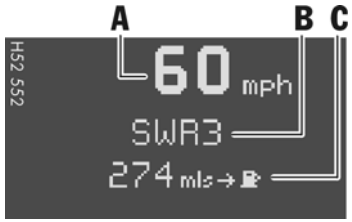
▷ Pull the lever back **2** once or several times **or**

▷ Select the arrow on the on-board computer display with the operating lever and push the operating lever forward **1**.

Note

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

Functions and display possibilities



A - *Digital speedometer*
B - *Central display*
C - *Bottom display*

Note

The available items and displays in the on-board computer depend on the equipment of your vehicle. For this reason it is possible that some of the items and displays shown here are not available in your on-board computer.

Basic setting

– Central display: .... Radio station

The central line **B** of the on-board computer can be selected in the SET menu.

Calling on-board computer functions in display “C”

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

The following displays can be called step by step:

– Average speed (ø mph),

– Average consumption (ø mpg),

– Range on remaining fuel (mi),

– Tire pressure

– Navigation information (if activated in the SET menu).

Note

The values “Average speed”, “Average consumption” and “Daily trip mileage” can be reset to zero in the SET menu.

Switching selection field “D” on or off

▷ Push operating lever forward or back.

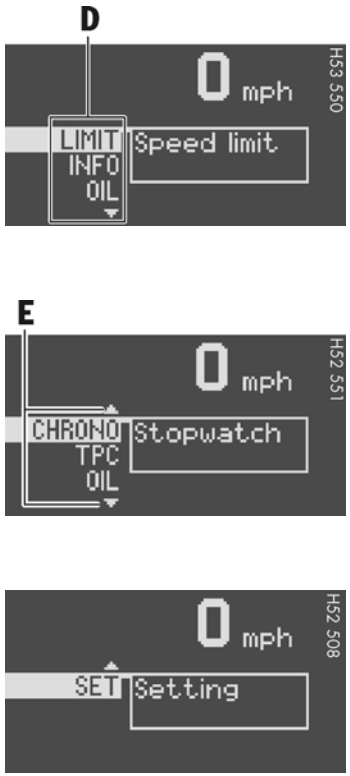
Arrow symbol “E” for continuation

Arrow symbol:

▷ Push operating lever down in order to page through the menu.

Arrow symbol:

▷ Push operating lever up in order to page through the menu.



D - *Selection field*
E - *Continuation arrow symbols*

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 when 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 “D”

▷ Push operating lever forward.

Setting the speed

▷ Select LIMIT with the operating lever.

▷ Push operating lever forward.

Option 1:
Accepting current speed

▷ Push operating lever forward.

The acoustic warning signal is activated for the current speed.

Display: ⊡

Option 2:
Presetting speed

▷ Select “LIMIT active” with the operating lever:

☐ not active

☑ active

▷ If “not active”, push the operating lever forward.

▷ Select “xx mph” with the operating lever.

▷ Push operating lever forward.

▷ Push operating lever slightly up or down until the desired speed is reached.

upwards: speed is increased
downwards: speed is decreased

Note:
Holding the lever pressed up or down for a longer period will adjust the speed in steps of 6 mph (10 km/h).

▷ Push operating lever forward.

Switching the acoustic warning signal off

▷ Select “LIMIT active” with the operating lever.

▷ Push operating lever forward.

Display: ☐

INFO
Warning messages

Switching on selection field “D”

▷ Push operating lever forward.

Calling warning messages

▷ Select INFO 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 cancelled during the journey (but only until the next time the ignition is switched on).

▷ Push operating lever forward.

▷ Push operating lever forwards or pull backwards.
The display returns to the Info menu.

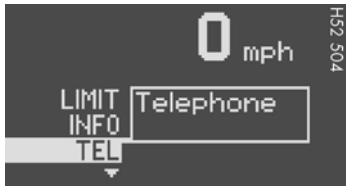
TEL
Telephone information

Switching on selection field “D”

▷ Push operating lever forward.

Calling telephone information

▷ Select TEL with the operating lever.



▷ Push operating lever forward.

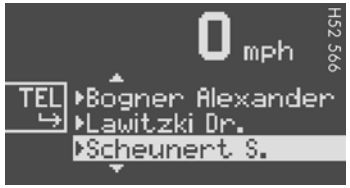
Note

You can recall phone calls, e.g. calls that arrived during your absence, via the menu item “Missed calls”.

Example:
Selecting from the telephone book and calling

▷ Select “Phone book” with the operating lever.

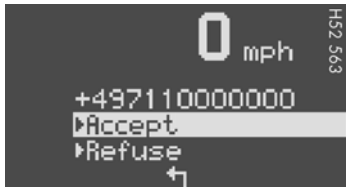
▷ Push operating lever forward.



▷ Select a person to call and push the operating lever forward.
The connection is established.

▷ Push the operating lever forward to end the call.

Incoming call



▷ Select “Accept” or “Refuse” and push the operating lever forward.

Note

▷ Rejected phone calls can be recalled with menu item “Missed calls”.

CHRONO
Stopwatch

You can use the stopwatch to measure time intervals, e.g. on the race circuit or on work-related journeys. Measured lap times can be stored and evaluated if the vehicle is equipped with Porsche Communication Management (PCM).

▷ Please observe the chapter “Sport display” in the separate PCM operating instructions.

Stopwatch on the instrument panel

The stopwatch has an analogue and a digital display.
The large pointer of the analogue display measures the seconds. The two small pointers measure hours and minutes. The display re-starts at zero after 12 hours.
Seconds and increments of 1/100th of a second can be read on the digital display.
The digital display and the display in the on-board computer can indicate up to 99 hours and 59 minutes.

The stopwatch can be swivelled both to the left and to the right.

Stopwatch displays:

– on the stopwatch on the instrument panel,

– in the on-board computer menu CHRONO,

– on the performance display in the PCM.

Starting/stopping stopwatch

All stopwatch displays are started and stopped via the on-board computer menu CHRONO.

Note on operation

When you leave the CHRONO menu while the stopwatch is running, measurement will continue.

The stopwatch stops after the ignition is switched off. If the ignition is switched on again within approx. 4 minutes, the stopwatch will continue to run.

The only way to reset the stopwatch to zero is by selecting “Reset” in the CHRONO menu.

Starting the timing

▷ Push operating lever forward.
The selection field is switched on.

▷ Select CHRONO with the operating lever.

▷ Push operating lever forward.

▷ Push operating lever forward.
The time runs on all stopwatch displays.
The on-board computer display changes to the “Stop timing/Intermediate time” selection.

PCM information

The performance display in the “Trip/Sport display/Begin trip” menu must be selected in order to analyse the data in the PCM.

Stopping the timing

After time measurement is started, the on-board computer display changes to the “Stop timing/Intermediate time”.

▷ Select “Stop timing” with the operating lever.

▷ Push lever forward.
The time is stopped in all stopwatch displays, and the on-board computer display changes to the “Continue/Reset” selection.

The timing can be continued or reset to zero.

PCM information

After timing has been stopped, a prompt asking whether the time is to be stored appears on the PCM.

Continue timing

After timing has been stopped, the on-board computer display changes to the “Continue/Reset” selection.

▷ Push operating lever forward.
The stopwatch displays continue the timing.

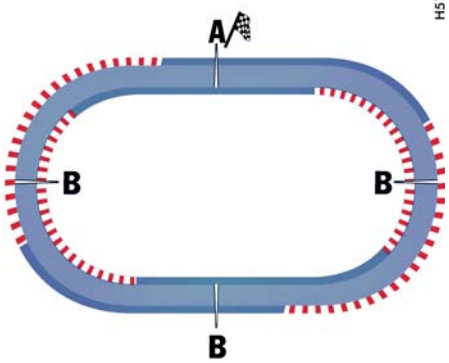
The on-board computer display returns to the “Stop timing/Intermediate time” selection. You can stop the stopwatch or measure an intermediate time.

Resetting the time

After timing has been stopped, the on-board computer display changes to the “Continue/Reset” selection.

▷ Select “Reset” with the operating lever.

▷ Push operating lever forward.
The display returns to the “Start timing” selection.
The stopwatch displays in the instrument panel and the on-board computer are reset to zero.



H51-153

A - *Lap*
B - *Intermediate time*

Displaying intermediate times

Several intermediate times can be displayed for a route or for a lap on the race circuit. The intermediate times **B** are for your information.
Measured lap times **A** can be stored and evaluated if the vehicle is equipped with Porsche Communication Management (PCM).

To display an intermediate time:

After timing has been started, the on-board computer display changes to the “Stop timing/Intermediate time” selection.

H52 539

▷ Select “Intermediate time” with the operating lever and push the operating lever forwards.

H52 516

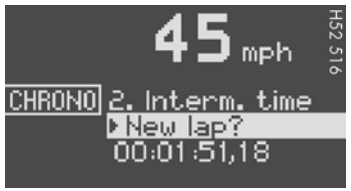
The intermediate time will be displayed for approx. 5 seconds.
The on-board computer display then returns to the “Stop timing/Intermediate time” selection.

H52 539

▷ You can stop the stopwatch or measure another intermediate time.

In order to start timing a new lap:

The “New lap?” selection appears for 5 seconds after selection of “Intermediate time”.



▷ Select “New lap?” with the operating lever and push the operating lever forwards.

The new lap is displayed on the on-board computer and the PCM. Timing on the on-board computer and on the PCM begins from zero. The stopwatch in the instrument panel continues to show the total time.

▷ The on-board computer display returns to the “Stop timing/Intermediate time” selection after a short period.

▷ You can stop the stopwatch or measure another intermediate time or a new lap.

PCM information

If you wish to store the lap time in the PCM, the performance display in the “Trip/Sport display/Begin trip” menu of the PCM must be selected.

TPC
Tire pressure monitoring

▷ Please observe the chapter “TIRES, RIMS, TRACKS” on Page 282.

The tire pressure monitoring continuously monitors tire pressure and tire temperature on all four wheels and warns the driver when the tire pressure is too low.

The display as well as the settings for the tire pressure monitoring take place on the on-board computer.
However, you must still adjust the tire pressure on the wheel.

▷ The driver is responsible for filling the tires correctly and making the correct settings on the on-board computer.

The tire pressure monitoring offers the following functions:

– Display of the actual tire pressure while the vehicle is in motion

– Display of the deviation from the required pressure (refilling pressure)

– Display of currently set tire size and type

– Tire pressure warnings in two stages

⚠ Safety notes!

Despite the advantages offered by the tire pressure monitoring, it is still the driver's responsibility to update the corresponding settings in the on-board computer and maintain the pressure in the tires. Low tire pressure reduces the road safety of the vehicle and destroys the tire and wheel.

▷ When a flat tire has been displayed, immediately stop in a suitable place and check the tires for damage. If necessary, remedy the damage with a tire sealant.

▷ Do not by any means continue to drive with defective tires.

▷ Sealing the tire with tire sealant is only an emergency repair, so you can drive to the next authorized Porsche dealer. The maximum permitted speed is **50 mph (80 km/h)**.

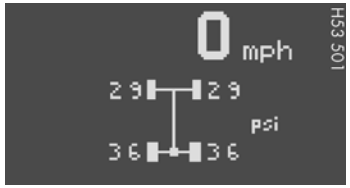
▷ Do not drive with tires whose tire pressure drops again in a short period of time. In cases of doubt, have tires checked by an authorized Porsche dealer.

▷ Defective tires must be immediately replaced by an authorized Porsche dealer.
Tire repairs are not permissible under any circumstances.

▷ If the tire pressure monitoring is defective (e.g. defective wheel transmitter), contact an authorized Porsche dealer immediately and have the damage repaired.
The tire pressure will not be monitored by a defective tire pressure monitoring.

▷ Tires lose air over time without a tire defect being present. A tire pressure warning will then appear in the on-board computer display. Correct the tire pressure at the next opportunity.

▷ The tire pressure monitoring gives a warning about tire damage due to natural pressure loss as well as about a gradual loss of pressure due to foreign objects.
The tire pressure monitoring cannot warn you about tire damage that occurs suddenly (e.g. flat tire due to abrupt external effects).



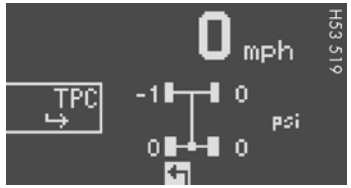
Tire pressure function of the on-board computer

The tire pressure function of the on-board computer displays the tire pressures (actual pressure) dependent on temperature in the four wheels.
You can watch the tire pressure rise as the temperature increases while driving.
This display is only for information.

- ▷ Under no circumstances should the tire pressures be changed based on this display.

Calling the tire pressure function of the on-board computer

- ▷ Push operating lever up or down until the tire pressure function of the on-board computer appears.
  (The selection field must be **switched off**.)



Pressure info in Tire pressure menu

In accordance with physical principles, the air pressure changes as the temperature changes. The tire pressure increases or decreases by around 1.5 psi (0.1 bar) for every 50°F (10°C) change in temperature.

The tire pressure monitoring takes this relationship between tire pressure and temperature into account.

You can read the tire pressures to be corrected in this display.

The tire pressure to be corrected (refill pressure) is indicated on the displayed wheel.
Example: If " –1.5 psi (–0.1 bar)" is displayed, 1.5 psi (0.1 bar) must be added to this tire.

Note

The Tire pressure menu can only be called up when the vehicle is stationary.

Calling up the "Info pressure" display

- ▷ Push operating lever forward in order to switch on the selection field.
- ▷ Select "TPC" with the operating lever.
- ▷ Push operating lever forward.
  The display changes to the Tire pressure menu.
- ▷ Select "Info pressure" with the operating lever.
- ▷ Push operating lever forward.

Note

After the ignition is switched on, it can take up to approx. 1 minute before all tire pressures are displayed. Dashes ("-.-") appear instead of the tire pressures.

Tire type info in Tire pressure menu

Information about the currently set tires:

– Tire type:
Summer tires, winter tires

– Tire size:
18, 19 inch

“Info tires” shows the current tire settings.

Calling up the “Info tires” display

▷ Push operating lever forward in order to switch on the selection field.

▷ Select “TPC” with the operating lever.

▷ Push operating lever forward.
The display changes to the Tire pressure menu.

▷ Select “Info tires” with the operating lever.

▷ Push operating lever forward.

Tire selection in the “Set” menu

▷ Push operating lever forward in order to switch on the selection field.

▷ Select “TPC” with the operating lever.

▷ Push operating lever forward.
The display changes to the Tire pressure menu.

▷ Select “Set” with the operating lever.

▷ Push the operating lever forward.

▷ Select desired tire type:
summer or winter.

▷ Push operating lever forward.
A display for confirming the selected type of tire appears.

▷ Select “Continue” and push the operating lever forward.

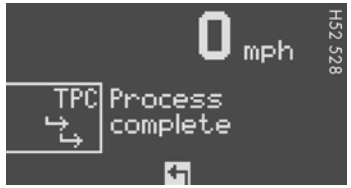
▷ Select the appropriate tire size (17, 18 or 19 inch) and push operating lever forwards.
A display for confirming the selected tire size appears.

Note

This menu is only displayed when different tire sizes are approved.

▷ Select “Continue” and push the operating lever forward.

Setting of the tire characteristics has only been successfully completed when the message “Process complete” is displayed by the on-board computer.



▷ Select arrow (Back) and push the operating lever forward. The display returns to the Tire pressure menu.
The on-board computer additionally displays the message “System learning”.

Note

The message “Process aborted” appears if the setting process is interrupted. All entries made up to this point are lost, and the original settings remain in effect.
Only if the message “Process complete” appears after the settings have been made will the tire pressure monitoring re-learn the wheels.

▷ Please observe the chapter “SYSTEM LEARNING” on Page 108.

Before fitting tires with sizes which are not stored in the on-board computer, the missing information should be supplemented in the on-board computer.

▷ Consult a qualified specialist garage. We recommend that you use a Porsche partner for this work since these are staffed with trained personnel and have the necessary parts and tools.

▷ Use only tires approved by Porsche.

The available items in the Tire pressure menu depend on the equipment of your vehicle. For this reason it is possible that some of the items shown here are not available on your on-board computer’s display.

Tire pressure warnings

The tire pressure monitoring warns about loss in pressure in two stages, depending on the amount of pressure loss:

Stage 1 – Add air
(3 to 6 psi (0.2 to 0.4 bar) loss in pressure)

Stage 2 – Flat tire
(from 6 psi (0.4 bar) loss in pressure)

Stage 1 – Add air

The pressure in the tire is too low by 3 to 6 psi (0.2 to 0.4 bar).
Driving with insufficient tire pressure reduces the road safety of the vehicle and destroys the tire and wheel.

▷ The tire pressure warning contains the affected tire with the tire pressure to be added. Correct the tire pressure at the next opportunity.

This tire pressure warning appears with vehicle stopped and can be acknowledged.
The tire pressure warning light in the instrument panel goes out when the tire pressure has been corrected.

Stage 2 – Flat tire

The pressure in the tire has dropped by more than 6 psi (0.4 bar). This significant pressure loss is a danger to road safety.

▷ When the tire pressure warning has appeared on the on-board computer, stop immediately at a suitable location. Check the tire for signs of damage. If necessary, fill in tire sealant and set the correct tire pressure.

This tire pressure warning appears when driving and can be acknowledged.
The tire pressure warning light in the instrument panel goes out when the tire pressure has been corrected.

System learning

The tire pressure monitoring begins to “learn” the wheels after a wheel change, wheel transmitter replacement or update of the tire settings. During this process, the tire pressure monitoring recognises the tires and their locations. The on-board computer displayes the message “TPC inactive – system learning”.

The tire pressure monitoring requires a certain amount of time to learn the wheels. During this time, the current tire pressures are not available on the on-board-computer:

– The display of the Tire pressure function of the on-board computer shows lines.

– The required pressures for cold tires at 68°F (20°C) are indicated in the Info pressure display in the Tire pressure menu.

– Tire pressure warnings are issued without tire pressure and position information (**figure**) as soon as the vehicle’s own wheels have been detected and the tire pressure warning light has gone out.

Position and pressure information is displayed as soon as the tire pressure monitoring has assigned the wheels identified as belonging to the vehicle to the correct wheel positions.

The wheel learning process takes place exclusively when the vehicle is being driven.

▷ Manually check the tire pressure at all wheels and correct the tire pressure to the required value.

Changing a wheel and replacing tires

▷ New wheels must be fitted with radio transmitters for the tire pressure monitoring.
Before tires are changed, the battery charge state of the wheel transmitters should be checked at an authorized Porsche dealer.

▷ Switch the ignition off when changing a wheel.

The tire settings on the on-board computer must be updated after changing a wheel.

A message appears if the characteristics of the new tires do not agree with the on-board computer settings.

▷ Update the on-board computer settings when the vehicle is stationary the next time.

Warning light

The warning light in the speedometer lights up:

– When a loss in pressure has been detected

– If the tire pressure monitoring is faulty

– When learning newly mounted wheels/wheel sensors, as long as the vehicle's own wheels have not yet been recognized.

The tire pressure warning light in the instrument panel goes out only when the cause of the fault has been rectified.

No monitoring

In the event of faults the tire pressure monitoring cannot monitor the tire pressure.
The warning light on the instrument panel lights up and a corresponding message appears on the on-board computer.

Monitoring is not active when:

– the tire pressure monitoring is faulty,

– wheel transmitters for the tire pressure monitoring are missing,

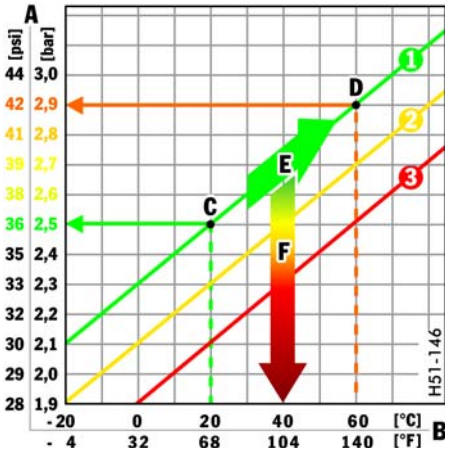
– temporarily after changing a wheel (learning phase),

– more than four wheel transmitters are detected,

– there is external interference by other radio sources, e.g. wireless headphones,

– tire temperatures are too high.

▷ Please observe the chapter "WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER" on Page 116.



Pressure increase as the result of temperature increase

A Tire pressure

B Tire temperature

C Tire pressures for cold tires

D Tire pressure for hot tires

E Pressure increase as the result of temperature increase

F Pressure drop in faulty/leaking tires

1. Required-pressure line

2. Warning stage 1 (from –3 to –6 psi (–0.2 bar to –0.4 bar))

3. Warning stage 2 (from –6 psi (–0.4 bar))

In accordance with physical principles, the air pressure changes as the temperature changes. The tire pressure increases or decreases by around 1.5 psi (0.1 bar) for every 50°F (10°C) change in temperature.

The tire pressure monitoring takes this relationship between tire pressure and temperature into account.

Tire pressure specifications

Information on tire pressure for public roads can be found in this Owner's Manual or on the tire-pressure plate in the left door aperture.
These values apply to cold tires at 68°F (20°C).

OIL
Display and measurement of the engine oil level

Caution!

Risk of engine damage.

▷ Regularly check the oil level after refuelling.

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

Conditions for measuring the oil level

1. It is important to ensure that the vehicle is **horizontal** for correct oil level measurement to occur.
2. Engine is off.
3. Ignition on.

Oil return time

Before the oil level is measured, the engine oil has to have flowed back into the oil pan.
The time taken for the engine oil to flow back depends on the engine temperature and how long the engine has been stopped.

This waiting time is counted down in the on-board computer display when the ignition is switched on. The oil level display segments start to “cycle”.

▷ It is best to measure the engine oil level before embarking on a journey (if the vehicle has not been driven for an extended period) or with the engine at operating temperature. Shorter waiting times are achieved in this way.

Initiating oil level measurement

▷ Switch ignition on (do not start the engine). The engine-oil level measurement display appears in the on-board computer.

▷ Allow waiting time to elapse.

▷ Once the measurement has been completed, you can read off the engine oil level on the segment display.

– If the segments are filled in up to the top line, the oil level has reached the maximum mark.

▷ Under no circumstances add engine oil.

– If the bottom segment is filled in, the oil level has reached the minimum mark.

▷ Add engine oil immediately.

– If the segment flashes, the oil level has dropped to below the minimum mark.

▷ Add engine oil immediately.

The difference between the minimum and maximum marks on the segment display is approx. 1.2 liters.
Each segment of the display corresponds to approx. 0.4 liter.

▷ Add engine oil if necessary.
Please observe the chapter “ENGINE OIL LEVEL” on Page 189.
Before adding oil, switch ignition off.

▶ **Never add more engine oil than required to reach the maximum mark.**

Oil level measurement during refuelling

The oil level is automatically measured during refuelling.

Preconditions

1. Ignition is switched off.
2. If the engine is at operating temperature, at least 5 minutes must elapse between parking the vehicle and starting the engine.
3. Refuelling completed within 15 minutes.

When the ignition is switched on, the engine oil level is shown on the segment display.

Measurement will be stopped if the above requirements are not met.

▷ Start oil level measurement in the “OIL“ menu **or**

▷ Start oil level measurement by switching on the ignition.

Failure

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

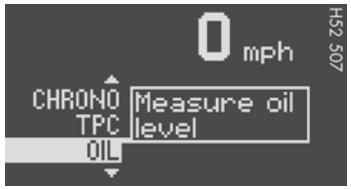
The oil level measurement can also be initiated in the “OIL” menu:

Switching on selection field “D”

▷ Push operating lever forward.

Initiating measurement

▷ Select “OIL” with the operating lever.



▷ Push operating lever forward.
Measurement is started.

SET
Basic setting on on-board computer

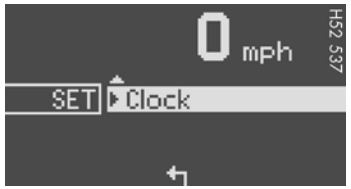
Switching on selection field “D”

▷ 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 average consumption,
Reset average speed,
Reset trip counter

Units

– Speedometer
km - km/h, miles - mph
– Consumption
l/100 km, mls/gal (USA), mpg (UK), km/l
– Temperature
°Celsius, °Fahrenheit
– Tire pressure
bar, psi

Display
(Select central line of the on-board computer)

– **Change display**
Audio information (set radio station)
Range on remaining fuel
Empty

Navigation

– Integrated in the BC
(Navigation instructions can be recalled on the on-board computer display)

– When turning off
(Navigation instructions are only shown before changing direction)

Basic setting

– Restore the basic setting of the on-board computer

Language

– Select language version

12/24h mode

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

General information regarding the on-board computer functions

Range on remaining fuel

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

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 top up with only a small quantity of fuel, an accurate range on remaining fuel is impossible.

Average consumption and average speed

The values displayed 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. It is therefore possible to collect values over long periods.
Disconnecting the car battery will cause these memories to be erased.

Tire pressure

The **Tire pressure** function of the on-board computer displays the tire pressures dependent on temperature in the four wheels. You can watch the tire pressure rise and fall while driving.
The display is only for information. To correct the tire pressures, always use the displayed values from the “Info pressure” display in the Tire pressure menu.

Warnings on the instrument panel and 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 after refuelling.

Instrument panel	On-board computer	Text display on on-board computer	Meaning/measure
		Seat belt	Driver and passengers must fasten their seat belts.
		Handbrake	Handbrake is still on.
		Ignition key not removed	
		Replace battery in ignition key	Replace the remote-control battery.
		Ignition lock faulty, please go to workshop	Have the fault remedied at an authorized Porsche dealer.
		Ignition lock faulty, visit workshop now	Have the fault remedied at an authorized Porsche dealer.
		Relieve steering	Relieve the steering lock by moving the steering wheel to the left or right.
		Steering locked	The steering wheel lock remains engaged. Have the fault remedied at an authorized Porsche dealer.
		Lights on	Dipped beam/side light on.
		Parking light on	Left/right parking light on.

Instrument panel	On-board computer	Text display on on-board computer	Meaning/measure
		Check left/right dipped beam (low beam) also applies to: front side lights, direction indicator, high beam, fog lights, side indicator light, brake light, tail light, rear fog light, reversing light, raised brake light, side marker	The reported light is faulty. Check bulb. Have the fault remedied at an authorized Porsche dealer.
		Daytime driving lights off	Daytime driving lights switch off when the engine is shut off. Switch on lights if necessary.
		Headlight beam adjustment faulty	Have the fault remedied at an authorized Porsche dealer.
		Front lid not closed	Close luggage compartment lid properly.
		Rear lid not closed	Close engine compartment lid properly.
		Lid opener front faulty	Luggage compartment lid release is faulty. Have the fault remedied at an authorized Porsche dealer.
		Rain sensor faulty	Have the fault remedied at an authorized Porsche dealer.
		Refill washer fluid	
		LIMIT Cannot be accepted with vehicle stopped	The current speed can only be accepted for the acoustic warning signal when the vehicle is in motion.
		LIMIT 30	Selected speed limit (e.g. 30 mph) for the acoustic warning signal has been exceeded. Adjust your speed if necessary.
Fuel gauge warning light		Consider remaining range	Refuel at next opportunity.

Instrument panel	On-board computer	Text display on on-board computer	Meaning/measure
		Check engine oil level	Start engine oil level measurement in the on-board computer. The vehicle must be horizontal and the ignition must be switched on.
		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.
Warning light Temperature gauge		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.
		Engine diagnostics – workshop	Consult your authorized Porsche dealer.
		Reduced engine power	Consult your authorized Porsche dealer.
Temperature gauge warning light flashes		Failure of engine compartment blower	Consult your authorized Porsche dealer.
		Warning Battery/generator	Stop at a safe place and switch the engine off. Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
		Oil pressure gauge faulty	Have the fault remedied at an authorized Porsche dealer.
		Oil level display faulty	Have the fault remedied at an authorized Porsche dealer.
		Oil temperature gauge faulty	Have the fault remedied at an authorized Porsche dealer.

Instrument panel	On-board computer	Text display on on-board computer	Meaning/measure
		Indicator faulty	Coolant indicator failed. Have the fault remedied at an authorized Porsche dealer.
		Brake pad wear	Have the brake pads changed immediately at an authorized Porsche dealer.
		Warning – Brake fluid level	Stop immediately in a suitable place. Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
		Warning – Brake circuit division	Stop immediately in a suitable place. Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
		ABS failure	Have the fault remedied at an authorized Porsche dealer.
		PSM off	Porsche Stability Management has been switched off.
		PSM on	Porsche Stability Management has been switched on.
		PSM failure	Have the fault remedied at an authorized Porsche dealer.
		PASM Normal/Sport	Indicator for selected PASM mode
		PASM failure	Have the fault remedied at an authorized Porsche dealer.
		PASM indicator faulty	Have the fault remedied at an authorized Porsche dealer.
		Sport mode failure	Have the fault remedied at an authorized Porsche dealer.

Instrument panel	On-board computer	Text display on on-board computer	Meaning/measure
		Airbag system fault	Airbag is faulty. Have the fault remedied at an authorized Porsche dealer.
		Check passenger's seat setting	Weight sensing is impaired on the passenger's seat (Advanced Airbag). When the backrest is in contact with the engine compartment wall, the backrest can warp. Correct the seating position, set the backrest upright, do not support weight on the armrests, or lift on the handles.
		Failure spoiler control	Driving stability is impaired. Adjust your driving style. Reduce speed. Have the fault remedied at an authorized Porsche dealer.
Display of selector lever position flashes		Selector lever is not engaged	Tiptronic S: Selector lever can be between two positions. Engage the selector lever correctly.
		Move selector lever to P	Tiptronic S: Move selector lever to position P before withdrawing key from ignition lock.
		Apply brake	Tiptronic S: Apply the brake when starting.
		Depress clutch pedal	Manual transmission: Depress clutch pedal when starting.
		Move selector lever to position P or N	Tiptronic S: The vehicle can be started only in the selector lever position P or N.
Display of selector lever position flashes		Tiptronic emergency run	Have the fault remedied at an authorized Porsche dealer.

Instrument panel	On-board computer	Text display on on-board computer	Meaning/measure
		System fault Go to workshop	Several systems may have failed. Adjust your driving style. Reduce speed. Have the fault remedied at an authorized Porsche dealer.
		Failure of fuel level indicator Workshop	Have the fault remedied at an authorized Porsche dealer.
		Service in km/days	Service indicator Bring the vehicle in for service no later than after the distance/time shown has elapsed. However, it is the intervals in the “Guarantee and Maintenance” booklet that are decisive.
		Service now	Service indicator Have your vehicle serviced at an authorized Porsche dealer.
		Flat Tire	Tire pressure monitoring system has detected a serious pressure loss. Stop in a suitable place and check tires for damage. Fill in tyre sealant if necessary.
		Add air	The tire pressure monitoring system has detected a gradual pressure loss. Correct tyre pressure at the next opportunity.
		TPC inactive System learning	The tire pressure monitoring system is learning the wheels on the vehicle. The tire pressure monitoring system is searching for the tires and their position. During this period the current pressure specifications are not available on the on-board computer.
		TPC inactive	The tire pressure monitoring system is faulty. Consult a qualified specialist repairshop.*

Instrument panel	On-board computer	Text display on on-board computer	Meaning/measure
		TPC inactive Brief disturbance TPC inactive Too many wheel transmitters	The tyre pressure monitoring system is temporarily deactivated by excessive tyre temperatures (approx. 120 °C (248°F)) or external interference (e.g. from other wheel transmitters inside the car). Once the source of the interference is removed, the system is automatically reactivated.
		Wheel change? Input new TPC settings	Update the settings in the TPC menu of the on-board computer at the next opportunity. Wrong entries will affect the correct pressure information in the menu. The safety of your vehicle is at risk.
		TPC Indicator faulty	The display of the tyre pressure monitoring system is faulty. Consult a qualified specialist workshop.*
		Failure Convertible-top control	Have the fault remedied at an authorized Porsche dealer
		Convertible top not in limit position	Fully open or close convertible top.
		Opening convertible top	Message goes out in final position.
		Closing convertible top	Message goes out in final position.

Acknowledging warning messages

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

▷ Push the on-board computer operating lever forward.

You can recall erased warning messages in the “INFO” menu.

Light Switch

● **Lights switched off**

HOME **Welcome Home Function**

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.

If the ignition key is withdrawn and the door is opened while the lights (not the parking light or Welcome Home lighting) are on, a **chime** warns of possible battery discharge.

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

Note on operation

Further individual light functions (e.g. daytime driving lights) are available in vehicles with the Sport Chrono package.
Please observe the chapter “Individual Memory” in the separate PCM operating instructions.

Welcome Home Lighting

Switching on

▷ Move light switch to the HOME position.

For improved visibility and security when you get in and out of the car, the fog lights and the tail lights remain on for a certain period of time:

– **When you get out of the car**, the lights are turned on for approx. 30 seconds after the door is opened. The off-delay time resumes when the vehicle is locked.
On vehicles with the Sport Chrono package, the PCM can be used to set the off-delay time. This setting also changes the lighting period for unlocking the vehicle.
Please observe the chapter “Individual Memory” in the separate PCM operating instructions.

The lights are turned on for approx. 30 seconds **when the vehicle is unlocked**.
The lights go out if the ignition is switched on or when leaving the Welcome Home lighting
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

Vehicles with **Litronic headlights** feature **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.
   The level of the low beam rises perceptibly when the high beam is switched on.

If these test items are not met, the headlight beam adjustment must be checked by an authorized Porsche dealer.

Turn Signal/ Headlight Dimmer/ Parking light / 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

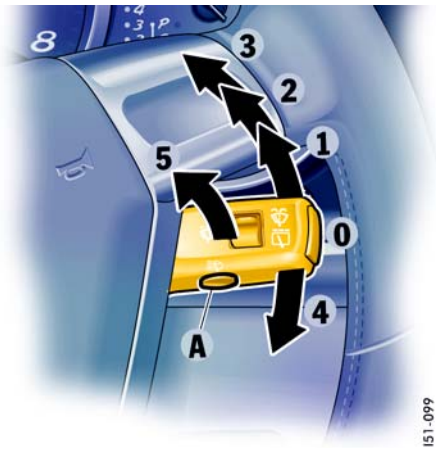
(With ignition on or off)

- ▷ 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.

Parking light

The parking light can only be switched on when the ignition is switched off.

- ▷ Move the lever up or down to switch on the right or left parking light.



Windshield Wiper / Washer Lever

Warning!

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.

Wiper and headlight washer system

0 – Windshield wipers off

1 – Rain sensor operation for front windshield wipers

- ▷ Move wiper lever upwards to the first click. Please observe the chapter “RAIN SENSOR” on Page 127.

2 – Windshield wipers slow

- ▷ Move wiper lever upwards to the second click.

3 – Windshield wipers fast

- ▷ Move wiper lever upwards to the third click.

4 – Front windshield wiper – one-touch operation:

- ▷ Move wiper lever downwards. The windshield wipers wipe once.

5 – Windshield wipers and washer system:

- ▷ Pull wiper lever towards the steering wheel. The washer system sprays and wipes while the lever is pulled towards the steering wheel. When the wiper lever is released, a few drying wipes are executed.

A - Headlight washer (Vehicles with Bi-Xenon headlights):

The washer sprays only while low beam or high beam is switched on.

- ▷ Briefly push button **A** to operate headlight washer system.
- ▷ If heavily soiled, repeat wash.

The headlight washer system automatically sprays once for every ten times the front windshield washer system is operated.

Note

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

Wipe interval control

On vehicles without a rain sensor, the wiping intervals can be adjusted in four steps.

Decreasing intervals

▷ Adjust switch **A** upwards.
The setting is confirmed by one wipe of the windshield.

Increasing intervals

▷ Adjust switch **A** downwards.

Rain sensor

In vehicles with a rain sensor the amount of rain or snow which has settled on the windshield is measured. Wiper speed is automatically adjusted accordingly.

Switching on

▷ Move wiper lever upwards to the first click.

Switching off

▷ Move wiper lever to position **0**.

The rain sensor remains switched off if the wiper lever is already in position **1** when the ignition is switched on.

To switch the rain sensor on again:

▷ Move wiper lever to position **0** and then to position **1 or**

▷ Operate windshield washer system **5 or**

▷ Change the sensitivity of the rain sensor with four-stage switch **A**.

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

On vehicles with the Sport Chrono package, further rain sensor functions can be selected via the PCM.
Please observe the chapter “Individual Memory” in the separate PCM operating instructions.

Changing the sensitivity of the rain sensor

Sensitivity can be set with switch **A** in 4 stages:

▷ Adjust switch **A** upwards –
high sensitivity.
The setting is confirmed by one wipe of the windshield.

▷ Adjust switch **A** downwards –
low sensitivity.

Maintenance note

If the wiper blades rub or squeak, this may be as a result of the following:

– If the vehicle is washed in an automatic car wash, wax residues may be adhering to the windshield. These wax residues can only be removed by using a special cleaning solution. Please contact your authorized Porsche dealer for further information.

– The wiper blades may be damaged or worn out.

▷ Replace wiper blades as soon as possible.

▷ Persistent dirt (e.g. insect remains) should be regularly removed.

▷ Please observe the chapter “CAR CARE INSTRUCTIONS” on Page 209.

A - *Cruise control readiness off/on*
1 - **+** *SPEED/SET (accelerate/store)*
2 - **-** *SPEED (decelerate)*
3 - *OFF (interrupt)*
4 - *RESUME*

Automatic Speed Control

The automatic speed control maintains any selected speed between 15 mph and 145 mph/ 30 km/h and 240 km/h without you having to use the accelerator.
The automatic speed control is operated with the lever on the steering wheel.

⚠ Warning!

Risk of accident and consequent personal injury. 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 briefly push the operating lever forward (position **1**).

Accelerating (e.g. to overtake)

Option 1

- ▷ Increase the speed as usual with the accelerator.
  When you ease off the accelerator, the previously saved value is set again.

Option 2

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

Option 3

- ▷ Push lever slightly forwards (position **1**) (a maximum of 10 times).
  The speed is increased by 1 mph (1.6 km/h) each time.

Note on operation

Speed control operation is automatically interrupted if the speed is increased by more than approx. 16 mph (25 km/h) for longer than 20 seconds.

Decelerating

Option 1

▷ Pull operating lever towards the steering wheel (position **2**) until the desired speed is reached. The speed reached is maintained and stored when the lever is released.

Option 2

▷ Briefly move lever towards the steering wheel (position **2**) (a maximum of 10 times). The speed is reduced by 1 mph (1.6 km/h) each time.

Interrupting automatic speed control operation

▷ Pull operating lever downwards briefly (position **3**) **or**

▷ Operate brake or clutch pedal **or**

▷ Switch Tiptronic transmission to selector lever position **N**.

▷ Please observe the chapter “TIPTRONIC S” on Page 163.

The speed driven before the interruption remains stored in the memory.

Automatic speed control operation is interrupted automatically:

– If the set vehicle speed is exceeded by more than approx. 16 mph (25 km/h) for longer than 20 seconds.

– If the actual vehicle speed falls to approx. 6 mph (10 km/h) below the set vehicle speed for longer than 5 seconds (upward slopes).

– For PSM control operations.

Resuming the stored speed

▷ Briefly push operating lever upwards (position **4**). The speed control accelerates/decelerates the vehicle to the stored speed.

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

Switching automatic speed control readiness off

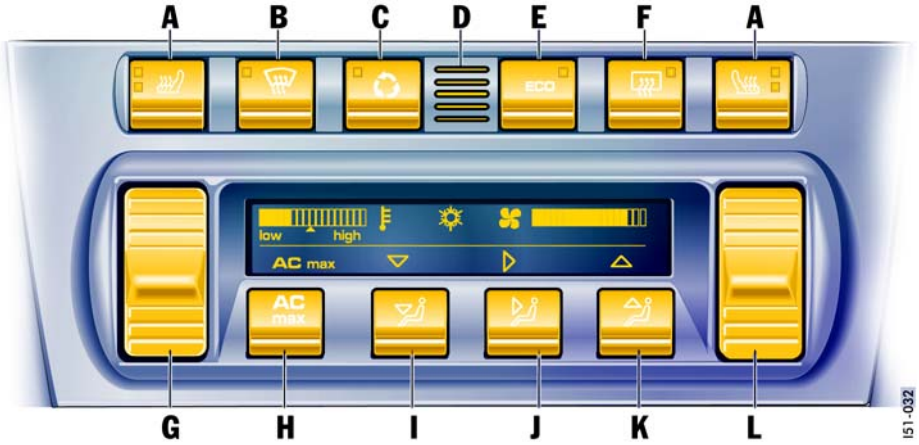
▷ Press button **A** on the automatic speed control lever. The green readiness light in the speedometer goes off.

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.



Air conditioning

Air quantity, air distribution, and temperature can be set on the control panel.

The display panel shows the following

- Temperature
- Air-conditioning compressor on/off
- Blower speed
- AC max
- Air distribution

A *- Seat heating*
B *- Defrosting the windshield*
C *- Circulating-air button*
D *- Temperature sensor*
E *- ECO button (air-conditioning compressor off/on)*
F *- Heated rear window*
G *- Temperature button*
H *- AC max*
I *- Air distribution to footwell*
J *- Air distribution to central and side vents*
K *- Air distribution to windshield*
L *- Blower speed button*

Setting temperature

▷ Press button **G** upwards or downwards respectively.

The selected temperature is shown on the display by a bar display.

If a **bar cannot be seen**, the temperature is set to **maximum cold**.

If **all bars** can be seen, the temperature is set to **maximum warm**.

Note

For maximum cooling, activate AC max button **H**.

Adjusting blower speed

▷ Press button **L** upwards or downwards respectively.

The blower speed is shown on the display by a bar display.

The compressor is switched off at low blower speeds.

Defrost windshield

▷ Press button **B** (switch on or off).
The light-emitting diode in the button lights up.
The windshield is demisted or defrosted as quickly as possible.
Air flows to the windshield only.

Circulating-air mode

⚠ Warning!

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

▷ Only select circulating-air mode for short periods.

▷ If the windows mist up, switch air-circulation mode off immediately by pressing the air-circulation button again and selecting the “Defrost windshield” function.

Switching circulating-air mode on or off

▷ Press circulating-air button **C**.
The light-emitting diode in the button lights up.
The outside-air supply is interrupted and only the inside air is circulated.

ECO – switching the air-conditioning compressor on and off

The air conditioning compressor switches off automatically at temperatures below approx. 37°F/3°C and cannot be switched on, even manually.

Whenever outside temperatures exceed approx. 37°F/3°C, the air-conditioning compressor can be switched on or off manually.

The compressor can be switched off manuall to save fuel.

▷ Press ECO button **E**.
The light-emitting diode in the button lights up.
The compressor is switched off.

▷ If the interior temperature is too high, switch on the compressor again.

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

AC max operation

In AC max operation, the interior of your vehicle is cooled as quickly as possible.

▷ Press AC max button **H**.
The light-emitting diode in the button lights up.

Air distribution

The individual air distributions can be combined as desired.
If an air distribution is not selected, no symbol appears in the display panel. Air flows then from all vents as well as to the windshield.

Recommended setting in Summer –
Air distribution to central and side vents

Recommended setting in Winter –
Air distribution to footwell and windshield

Air distribution to footwell

▷ Press button **I**.
The selection appears on the display panel.
The air flows to the footwell.

Air distribution to center and side vents

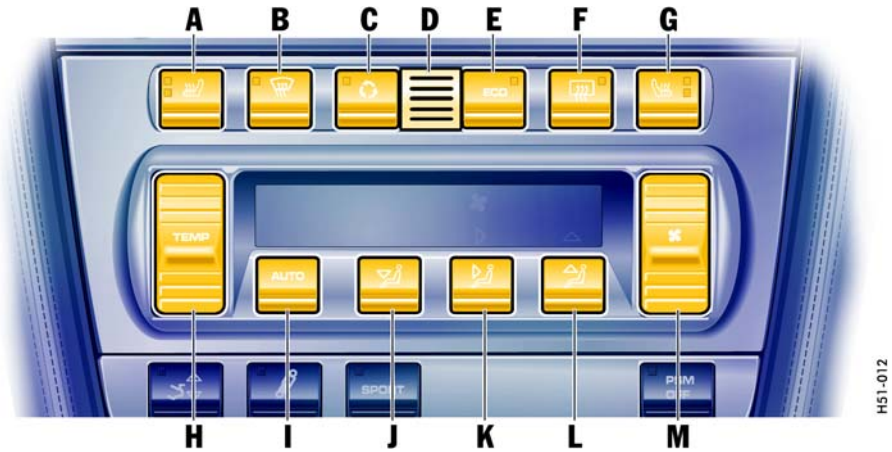
▷ Press button **J**.
The selection appears on the display panel.
The air flows from the central and side vents.
Vents must be open.

Air distribution to windshield

▷ Press button **K**.
The selection appears on the display panel.
The air flows to the windshield.

Information on air-conditioning compressor

- May switch off briefly to ensure sufficient engine cooling if the engine is operating under extreme load.
- Operates most effectively with the windows closed.
  If the vehicle has been in the sun for a long time, it is a good idea to ventilate the interior briefly with the 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 have the fault remedied.
  Please contact your authorized Porsche dealer for further information.



A - Seat heating, left
B - Defrosting the windshield
C - Circulating-air button
D - Temperature sensor
E - ECO button (air-conditioning compressor off/on)
F - Heated rear window/door mirror heating
G - Seat heater, right
H - Temperature button
I - AUTO button (automatic mode)
J - Air distribution to footwell
K - Air distribution to central and side vents
L - Air distribution to windshield
M - Blower speed button

Automatic air conditioning system

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

Automatic mode

▷ Press AUTO button**I**.
AUTO will appear on the display panel.
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.

Setting temperature

▷ Press button **H** upwards or downwards respectively.

To suit personal comfort, the interior temperature can be adjusted between 61°F and 85°F/16°C and 29.5°C.
Recommendation: 72°F/22 °C.

If “LO” or “HI” appears on the display, the system is operating at maximum cooling or heating power.
Automatic control is no longer active.

Note

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

Sensors

To avoid affecting the performance of the air-conditioning system:

▷ Do not cover the sun sensor on the instrument panel or the temperature sensor **D**.

Defrost windshield

▷ Press button **B** (switch on or off).
The windshield is demisted or defrosted as quickly as possible.
Air flows to the windshield only.
The light-emitting diode in the button lights up.

ECO – switching the air-conditioning compressor on and off

The air conditioning compressor switches off automatically at temperatures below approx. 37°F/3°C and cannot be switched on, even manually.

Whenever outside temperatures exceed approx. 37°F/3°C, the air-conditioning compressor is always switched on in automatic mode.

The compressor can be switched off manually to save fuel, but control comfort is then limited:

▷ Press ECO button **E**.
The compressor is switched off.
The light-emitting diode in the button lights up.

▷ 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.

Adjusting blower speed

▷ Press button **M** upwards or downwards respectively.
The preset blower speed is increased or decreased.

The speeds are indicated by a bar display.

The compressor is switched off at low blower speeds.

If the button is pressed downwards at the lowest blower stage, the blower and automatic control are switched off. “OFF” will appear on the display field.

Pressing the button upwards or pressing the AUTO button switches the blower and automatic control back on again.

Circulating-air mode

⚠ Warning!

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

▷ Only select circulating-air mode for short periods.

▷ If the windows mist up, switch air-circulation mode by pressing the air-circulation button again and selecting the “Defrost windshield” function.

Switching circulating-air mode on or off

▷ Press button **C**.
The outside-air supply is interrupted and only the inside air is circulated.
The light-emitting diode in the button lights up.

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.

Air distribution

The individual air distributions can be combined as desired.

Recommended setting in Summer –
Air distribution to central and side vents

Recommended setting in Winter –
Air distribution to footwell and windshield

Air distribution to footwell

▷ Press button **J**.
The air flows to the footwell.
The selection appears on the display panel.

Air distribution to center and side vents

▷ Press button **K**.
The air flows from the central and side vents.
Vents must be open.
The selection appears on the display panel.

Air distribution to windshield

▷ Press button **L**.
The air flows to the windshield.
The selection appears on the display panel.

Note on operation

▷ On vehicles with the Sport Chrono package Plus, individual air conditioning settings can be stored on your vehicle key.
Please observe the chapter “Individual Memory” in the separate PCM operating instructions.

Information on air-conditioning compressor

– May switch off briefly to ensure sufficient engine cooling if the engine is operating under extreme load.

– Operates most effectively with the windows closed.
If the vehicle has been in the sun for a long time, it is a good idea to ventilate the interior briefly with the 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 have the fault remedied.
Please contact your authorized Porsche dealer for further information.

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

Central and side vents

Opening vents

▷ Rotate thumb wheel upward.

Closing vents

▷ Rotate thumb wheel downward.

Changing air flow direction

▷ Swivel the vent fins in the desired direction.

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

Fresh-air intake

In order to ensure unhindered air intake:

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

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.

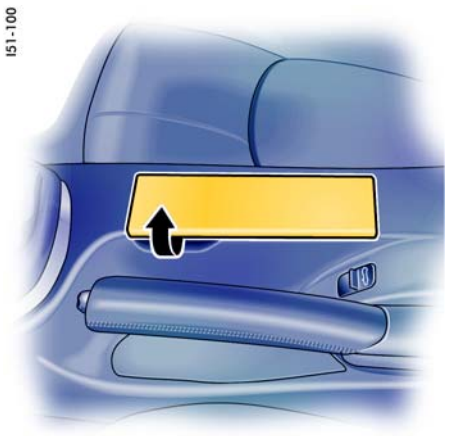
- ▷ Whenever stalled or stopped for emergency repairs, move the car well off the road. Switch on the emergency flasher and mark the car with road flares or other warning devices.
- ▷ Do not remain in the car. Someone approaching from the rear may not realize your vehicle is stopped and cause a collision.

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.



Warning!

Danger of fire.

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

Ashtray

Opening

- Open ashtray lid.

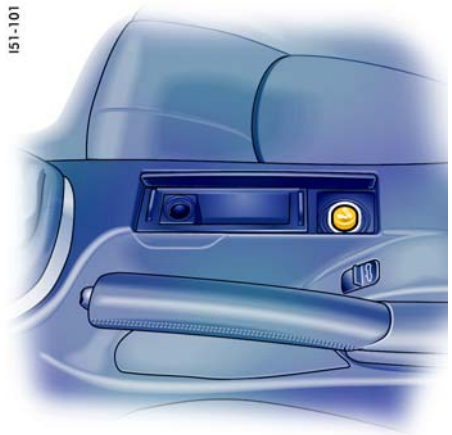
Emptying

- Open ashtray and carefully pull out ash insert.
- Leave ashtray lid open. Push in ash insert.

Danger!

Danger of fire in engine compartment due to burning cigars or cigarettes.

- Do not throw any lit cigars or cigarettes out of the vehicle.
  They can be blown into the air inlets **A** by the air flow and cause a fire in the engine compartment.



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

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

Note on operation

The lighter receptacle is not to be used for electrical accessories (except for the tire filling compressor).

- ▷ Please observe the chapter “SOCKETS” on Page 140.

In storage tray between the front seats

In the passenger's footwell

Sockets

Electrical accessories should preferably be connected to the 12 V sockets.

▷ Please observe the maximum power consumption.

Note on operation

The tire filling compressor must be connected to the cigarette lighter.

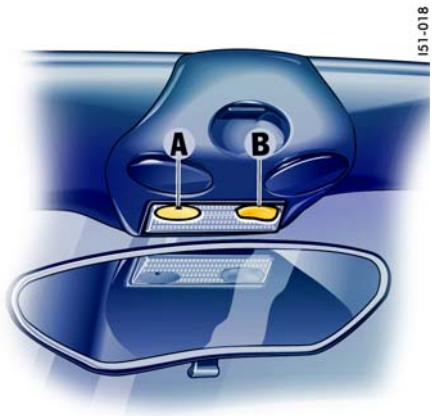
Note on operation

The sockets and thus the connected electrical accessories function even if the ignition is switched off or the ignition key is withdrawn.

If the engine is not running and the accessories are switched on, the vehicle battery will be discharged.
Do not operate additional accessories for more than 5 minutes when engine is off.

Maximum power consumption for both sockets together: 70 W.

▷ Please observe the power specifications from the accessory manufacturer.



A *- Orientation light*
B *- Interior light switch, footwell light*

Interior lights

▷ Please observe the chapter “LOAD SWITCH-OFF AFTER 2 HOURS OR 7 DAYS” on Page 246.

Interior light, footwell lights

Switching off

▷ Press left half of switch.

Switching to continuous illumination

▷ Press right half of switch.

Switching on and off automatically

▷ Move switch to center position.

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

The lights are **switched off** with a delay of approx. 30 seconds after the door is closed.

The lights go out immediately as soon as the ignition key is inserted in the ignition lock or the vehicle is locked.

Orientation light

The light-emitting diode in the interior light improves your orientation inside the vehicle when it is dark.

Note on operation

On vehicles with Sport Chrono package, the brightness of the orientation light can be changed in PCM.

▷ Please observe the chapter “Individual Memory” in the separate PCM operating instructions.

Storage in the passenger compartment

Warning!

Danger of injury during braking, rapid direction changes or in an accident.

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

Additional storage possibilities

- – in the doors,
- – in the door sill next to the passenger's seat,
- – in the center console,
- – clothes hook on back of seat backrest,
- – oddments tray with coin holder between seats,
- – glove compartment with CD and pen holder,
- – on engine compartment lid.

Oddments tray between the seats

Opening

- ▷ Press release button and lift the lid. There is a coin holder and socket in the forward part of the oddments tray.
- ▷ Please observe the chapter “SOCKETS” on Page 140.

Glove compartment

Warning!

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

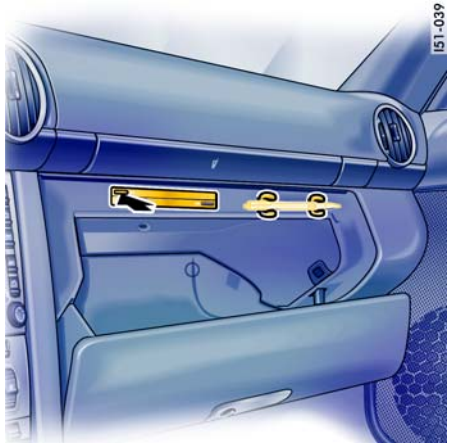
▷ Keep the glove compartment lid closed while driving.

Opening

▷ Pull the catch and open the lid.

Locking

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



CD holder

Occupied drawers are indicated by a red window.

Opening drawers

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

Closing drawers

▷ Fold up drawer and close until it engages.

Pen holder

▷ A pen can be clipped in on the right side of the CD holder.

Cupholder
(holder for drinks cans and cups)

▷ Keep the cupholder closed while driving.

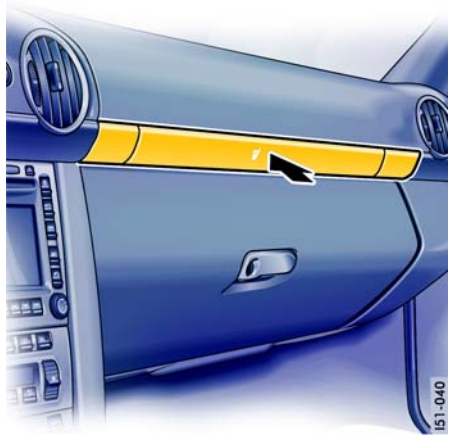
Warning!

Risk of scalding or damage due to spilling drinks.

▷ Only use containers which fit.

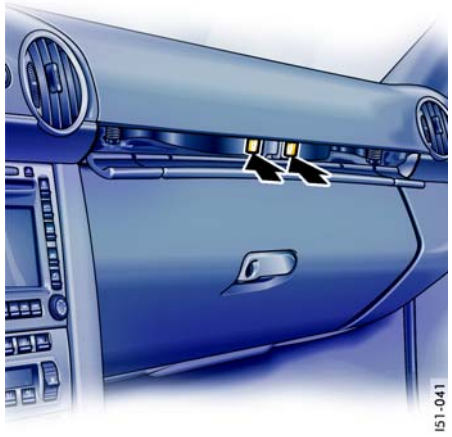
▷ Never put overfull containers in the cupholder.

▷ Never use hot drinks.



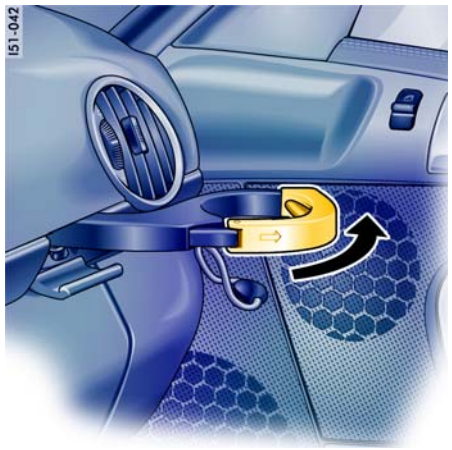
Extending cupholder

▷ Press the panel.
The panel opens.



▷ Press the symbol for the respective cupholder.

▷ Close panel in the middle.



Pulling cupholder out

- ▷ Pull out holder (**arrow**).
- ▷ Insert container.
- ▷ Carefully slide holder inwards to adjust it to the container size.

Closing cupholder

- ▷ Push cupholder drawer in.
- ▷ Open panel in the middle.
- ▷ Close and engage the cupholder.
- ▷ Close panel in the middle.

Luggage Storage on Engine Compartment Lid

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 carry items of luggage or objects in the passenger compartment unsecured.
- ▷ Do not transport any heavy objects under the luggage net or in the oddments trays.
- ▷ Kept shutters of the storage box closed while driving.

Risk of damage.

- ▷ Items of luggage or objects must neither hinder convertible top movement nor be in contact with the convertible top or rear window in such a way as to cause abrasion damage.

Attachment and removal of the luggage net and storage box:

- ▷ Please observe the chapter “OPENING ENGINE COMPARTMENT LID” on Page 203.

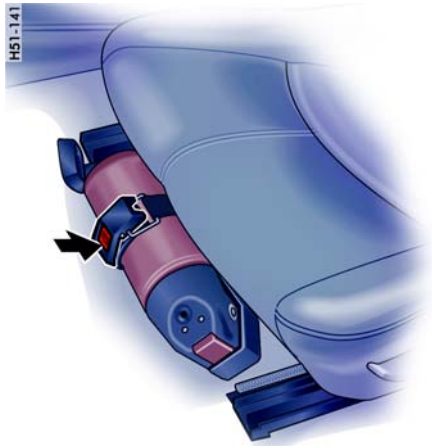
Luggage net

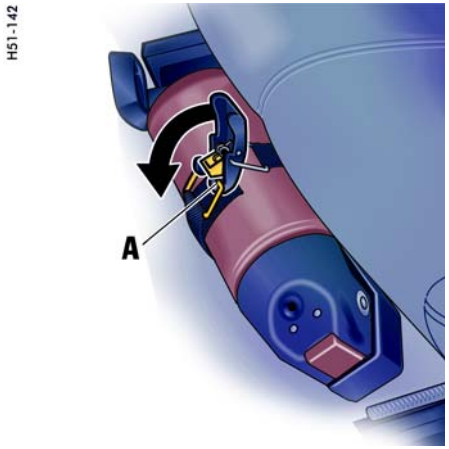
- ▷ Secure items of luggage or objects under the luggage net to prevent them from slipping out.

Storage box

Opening center storage tray

- ▷ Move both shutters in the direction indicated by the arrows.





Fire extinguisher

In cars with a fire extinguisher, the extinguisher is fitted to the front of the driver's seat.

Taking out fire extinguisher

1. Hold fire extinguisher with one hand and press the PRESS button on the fastening strap with the other hand (**arrow**).
2. Remove fire extinguisher from mounting.

Inserting fire extinguisher

1. Place fire extinguisher in the mounting.
2. Engage fastening strap lug **A** in the tension jack and close tension jack (**arrow**).

Notes

- Pay attention to the expiration date on the fire extinguisher.
  If the fire extinguisher is used after its expiration date has elapsed, it may not function properly.
- Follow the operating instructions for the fire extinguisher.
- The functional ability of the fire extinguisher should be checked by a specialist workshop every 1 - 2 years.
- After use, have the fire extinguisher refilled.

Front luggage compartment

Rear luggage compartment

Trunk Entrapment

Your vehicle is equipped with an internal front/rear 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 message

A warning message in the on-board computer lights up when unlocking handle **A** is operated.

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

Front luggage compartment 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 message in the on-board computer lights 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 message in the on-board computer lights 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 message lights up.
- ▷ Check the luggage compartment.
- ▷ Close the lid.

Rear luggage compartment lid

If the rear luggage compartment lid is unlocked with unlocking handle **A**, the lid opens immediately.

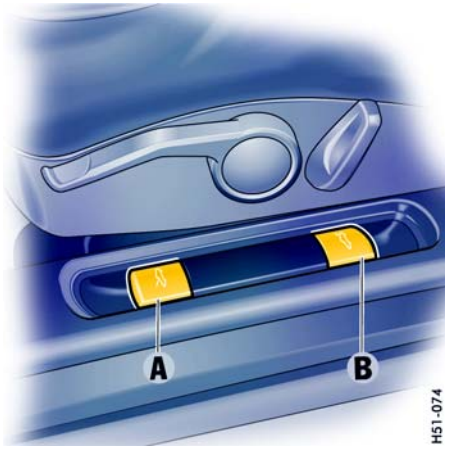
- ▷ Stop the vehicle immediately when the warning message lights up.
- ▷ Check the luggage compartment.
- ▷ Close the lid.

Note

The front 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 front 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.



A *- Opening front luggage compartment lid*
B *- Opening rear luggage compartment lid*

Luggage compartment lids

Unlocking

- ▷ Operate the appropriate pull-button next to the driver's seat.
  The luggage compartment is illuminated when the respective lid is open.
- ▷ Please observe the chapter "LOAD SWITCH-OFF AFTER 2 HOURS OR 7 DAYS" on Page 246.

The luggage compartment lid can also be unlocked with the radio remote control.

- ▷ Please observe the chapter "KEYS" on Page 17.

Important Note

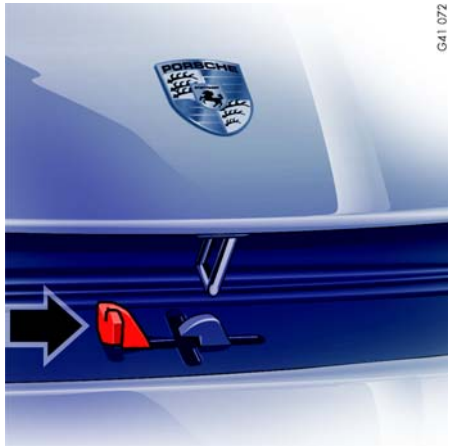
If the vehicle battery is discharged, the front luggage compartment lid can be opened only by connecting an external electrical power source.

- ▷ Please observe the chapter "ELECTRICAL SYSTEM" on Page 246.
  or the description inside the fuse box lid.

Warning message

A warning message in the on-board computer comes on if the lids are not completely closed.

- ▷ Fully close the lid.



Opening front 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**).

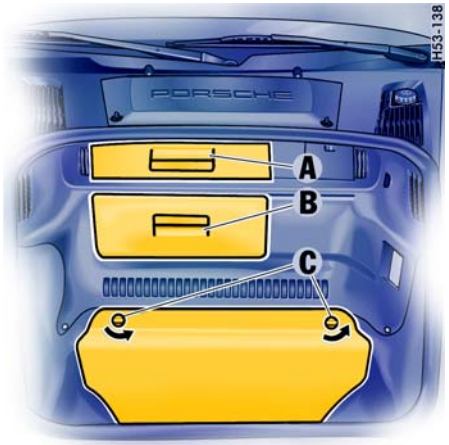
Closing front and rear luggage compartment lid

- ▷ Lower the lid and close it.
- ▷ Push the lid closed 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 or death.

- ▷ 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.



Luggage Compartment

Access covers

(on vehicles with DVD navigation or CD changer)

Opening

- ▷ Grasp access cover **A** or **B** at the handle and open.
- ▷ The drive for DVD navigation and the CD changer can be found behind the access cover **B**.

⚠ Caution!

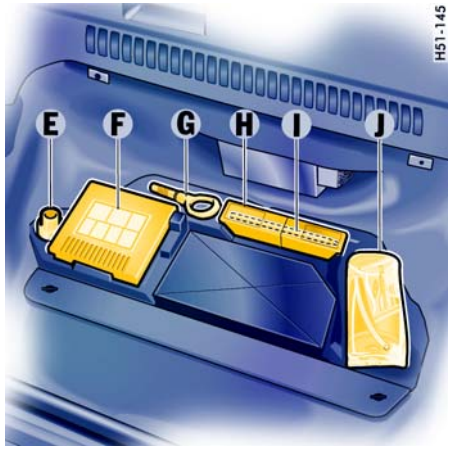
Risk of damage.

- ▷ Do not store any heavy, damp or heat-sensitive objects behind the access covers.

Tool box

Opening

- ▷ Unlock turn-locks **C**.
- ▷ Open tool box and place it on the floor of the luggage compartment.



E - *Adapter for security wheel bolts*
F - *Tire filling compressor*
G - *Towing hook*
H - *Tool kit*
I - *Lever for convertible top emergency operation (under the tool kit)*
J - *Tire sealant*

Closing

- ▷ Insert tool box into the guide pegs in the luggage compartment floor.
- ▷ Close tool box and lock the turn-locks **C.**

Rear luggage compartment

A Topping up engine oil

B Topping up coolant

C Coolant level

Porsche Communication Management (PCM)

- ▷ Refer to the separate operating instructions before putting the PCM into operation.
- ▷ Please observe the chapter “LOAD SWITCH-OFF AFTER 2 HOURS OR 7 DAYS” on Page 246.

⚠ Warning!

There is a danger of accident if you set or operate 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 resulting in serious personal injury or death.

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

The reception conditions for the radio module integrated in the PCM change continuously as you drive. Interference from buildings, terrain and the weather is unavoidable.
FM stereo reception is particularly susceptible to varying reception conditions.

Electronic accessories should only be retrofitted by a qualified specialist workshop.

Accessories which have not been tested and approved by Porsche may impair radio reception.

Navigation

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.

Car Audio Operation/Tips

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

▷ Please observe the chapter “LOAD SWITCH-OFF AFTER 2 HOURS OR 7 DAYS” on Page 246.

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 affecting 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.

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.

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.

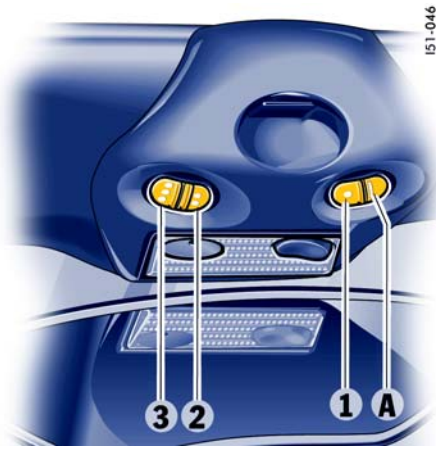
- ▷ Consult your authorized Porsche dealer about the installation of non Porsche approved equipment.

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.

Automatic car-wash

- ▷ Unscrew the external antenna before using an automatic car-wash.



1, 2, 3 - *Programmable buttons*
A - *Light-emitting diode for status identification*

HomeLink

The programmable HomeLink replaces up to three original hand-held transmitters used to operate various devices (e.g. garage door, gate to the property, alarm system).

You can program buttons **1 to 3** with a frequency of an original handheld transmitter.

⚠ Warning!

Risk of accident when using the HomeLink if persons, animals or objects are within the range of movement of the equipment that is being operated.

- ▷ When using the HomeLink, ensure that no persons, animals or objects are within the range of movement of the equipment that is being operated.
- ▷ Observe the safety notes for the original hand-held transmitter.

Preconditions for operating and programming the HomeLink:

– Ignition is switched on.

– Fog lights are switched off.

To operate the respective device:

- ▷ Press the appropriate button (**1, 2 or 3**). Light-emitting diode **A** lights up during signal transfer.

Note on operation

- ▷ Always use the HomeLink opener in the direction of travel.
  Otherwise, range restrictions cannot be ruled out.
- ▷ Before selling the vehicle, delete the programmed signals of the HomeLink.
- ▷ Please read the instructions for the original hand-held transmitter to find out whether the original transmitter is equipped with fixed or changeable code.

Allocating signals to the buttons

▷ Please follow the operating instructions for the original hand-held transmitter.

Prior to programming the HomeLink for the first time

The following process deletes the standard codes set at the factory. Do not repeat the process if you program further buttons.

▷ Keep the two outer buttons **1 and 3** depressed for approx. 20 seconds until light-emitting diode **A** begins to flash quickly.
All programmed signals of buttons **1 to 3** are deleted.

HomeLink with fixed code system

1. Press the desired button until the light-emitting diode begins to flash slowly.
You then have approx. 5 minutes to perform steps 2 and 3.
2. Hold the original hand-held transmitter approx. 0 to 12 in. (0 to 30 cm) in front of the marked position (figure) on the vehicle.
3. Press the transmit button on the original hand-held transmitter until the fog lights flash three times (up to approx. 45 seconds).
4. Repeat steps 1 to 3 to allocate other buttons.

Note

Several attempts with different distances between the vehicle and the original hand-held transmitter might be necessary.

The fog lights will flash once the 5 minutes have been exceeded. Programming must be repeated from the beginning in this case.

HomeLink with changeable code system

1. Allocate the required keys as for the systems with fixed code (steps 1 to 3).
2. To synchronise the system:
Press the programming button on the receiver for the garage door actuator.
Afterwards, you usually have approx. 30 seconds to initiate step 3.
3. Press the allocated HomeLink button twice. (With some devices, the button to be allocated must be pressed a third time in order to complete the setting process.)
4. Repeat the programming steps to allocate other buttons.

Note

▷ Please consult an authorized Porsche dealer if you have not been able to successfully allocate signals for the garage door opener to the buttons even though you have carefully followed the instructions in this chapter and the operating instructions for the original hand-held transmitter.

To reprogram a single button:

1. Press the desired button until the light-emitting diode begins to flash slowly (approx. 20 seconds).
   You then have approx. 5 minutes to perform steps 2 and 3.
2. Hold the original hand-held transmitter approx. 0 to 30 cm in front of the marked position (figure) on the vehicle.
3. Press the transmit button on the original hand-held transmitter until the fog lights flash three times (up to approx. 45 seconds).
4. Repeat steps 1 to 3 to allocate other buttons.

Note

Several attempts with different distances between the vehicle and the hand-held transmitter might be necessary.

The fog lights will flash once the 5 minutes have been exceeded. Programming must be repeated from the beginning in this case.

Deleting programmed signals of the HomeLink

(e.g., when selling the vehicle)

Keep the two outer buttons **1 and 3** depressed for approx. 20 seconds until light-emitting diode **A** begins to flash quickly.
All programmed signals of buttons **1 to 3** are deleted.

Shifting Gear

Manual Transmission, Clutch 162
Tiptronic S..... 163

Manual Transmission, Clutch

The positions of the gears are shown on the shift diagram on the gearshift lever.

Warning!

Risk of accident.

- f Do not obstruct the pedal travel with floor mats or other objects.
  Nonskid floor mats of the correct size are available at your authorized Porsche dealer.

To avoid damage to the clutch and transmission:

- f Always depress the clutch pedal fully when changing gears. Make sure that the gearshift lever is completely engaged.
- f Only shift into reverse when the car has come to a complete stop.
- f When shifting gears, always ensure that the clutch pedal is fully depressed and the gear has fully engaged.
- f Select reverse only when vehicle is stationary.
- f Select an appropriately low gear on upward and downward slopes.
  This will ensure optimum use of engine power and engine braking.

When reverse gear is selected and the ignition is on, the backup lights are illuminated.

Permitted engine speed

- f You should 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!

Risk of engine damage (overrevving) when shifting down to a lower gear.

- f Take care not to exceed the maximum permitted engine speed when shifting down.

Tiptronic S

The Porsche Tiptronic is a five-speed transmission with an “automatic” and a “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 rocker switches on the steering wheel.

In **manual selection mode** (selector lever position **M**), you change gear using the rocker 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 rocker switches on the steering wheel inadvertently in either auto matic or manual mode, thereby triggering undesired gear changes.

Keylock position

The **ignition key** can be withdrawn only in selector lever position **P**.

Changing the selector lever position

The selector lever is locked with the ignition key withdrawn.

The selector lever can be moved from position **P** or **N** only with:

– the ignition switched on,

– the brake pedal pressed and

– the release button pressed.

Release button

The release button (**arrow**) in the selector lever prevents unintentional gear changes.

The release button must be pressed when shifting to position **R** or **P**.

Starting

The engine can be started only if the brake pedal is depressed and the selector lever is in position **P** or **N**.

Moving off

f Only select the desired position for moving off (**D**, **M** or **R**) when the engine is idling and the brake pedal is depressed.

f Since the vehicle creeps when in gear, do not release the brake until you want to move off.

f After selecting a gear, do not accelerate until you can feel that the gear is engaged.

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 corresponding selector lever position in the instrument cluster flashes **and**

– the warning “Selector lever not engaged” appears in the on-board computer.

f Engage the selector lever correctly.

– The selector lever position is displayed immediately after the correct position has been detected.

– The current gear is shown after a brief detection period.

If there is a fault in the transmission:

– The 4th-gear and the selector lever position selected displays flash in alternation.

– The warning “Tiptronic emergency run” appears on the on-board computer.
Please observe the chapter “EMERGENCY PROGRAM” on Page 168.

– Have the fault remedied at an autorized Porsche dealer.

Selector Lever Positions

P – Parking lock

- f Select only when car has been stopped.
- f 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

- f 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.

- f Select the desired position for moving off (**D**, **M** or **R**) only when the engine is idling and while depressing the brake pedal.

D – Automatic selection mode

- f 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.

Sport mode switched on

- f Please observe the chapter “SPORT MODE” on Page 63.

If the Sport mode programme is switched on, Tiptronic switches to a sporty gear-changing map and shortens the shifting periods.
Deceleration downshifts are commenced earlier. Downshifts are already carried out in the case of slight decelerations, even at higher engine speeds.

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.

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).

f 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:

f Release the accelerator markedly.

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.

f 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.

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”.

f 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

f Press upper part (**+**) of a toggle switch.

Shifting down

f 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 auto matic upward shift is performed or, just before idling speed is reached, a downward shift is performed.

f 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**.

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

PSM switched off and/or Sport mode switched on

f Please observe the chapter “SWITCHING OFF PSM” on Page 65.

f Please observe the chapter “SPORT MODE” on Page 63.

If the PSM is switched off and/or Sport mode is switched on, an automatic upshift does not occur when the engine speed limit is reached.

Cancelling upshift suppression

The restriction can be cancelled for one gear change by depressing the accelerator to kickdown. If, for example, the engine speed limit is reached during overtaking and the automatic upshift does not occur, the transmission in this case shifts up by accelerating to kickdown.

f Depress the accelerator pedal beyond the full-throttle point (kickdown).

Manual mode failure

If manual mode fails, the control electronics switch to automatic mode. In this event, the instrument cluster will display selector lever position **D**.

f Have the fault remedied.
Consult an authorized Porsche dealer.

Stopping

f 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.

f For a longer stop with the engine running, select position **N** (neutral).

f Do not hold the car on a slope using the accelerator. Use the brake pedal or the handbrake instead.

f Before leaving the vehicle, always apply the handbrake and move the selector lever to position **P**.

Parking

f Go easy on the accelerator.

f When parking or maneuvring 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

f Please observe the chapter “TOWING” on Page 274.

Emergency program

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.

f Do not shift into **R** while the vehicle is moving forward.

A transmission fault is indicated by the following symptoms:

– The **4th-gear** display flashes.

– The warning “Tiptronic emergency run” appears in the on-board computer.

– The transmission no longer shifts.
Regardless of selector lever position, 4th is the only forward gear still available.

f Adapt your driving style to the changed handling.

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

Mobile Roofs

Convertible Top 170
Windstop 177
Hardtop 178

Convertible Top

Brief operating instructions can be found on the back side of the driver's sun visor.

f Please observe the chapter "CAR CARE INSTRUCTIONS" on Page 209.

⚠ Warning!

When opening or closing the convertible top, serious personal injury may occur if a person's body parts are near or in the way of the convertible top mechanism's moving parts.

f Make absolutely sure that nobody can be injured by the convertible-top mechanism or the convertible-top compartment lid.

Do not operate convertible top:

– At temperatures below 32°F/0°C.

– When one side of the car is on a curb, a hoist or a jack.

– When items of luggage or other objects hinder the convertible top movement or are in abrasive contact with the convertible top or rear window.
Items of luggage or objects on the luggage tray above the engine compartment lid must be put in the storage box or be secured under the net to prevent their sliding out.

– Drive only with the convertible top fully open or closed.

f Avoid frequent operation of the convertible top with the engine off; the vehicle battery would be unintentionally discharged rapidly.

f The convertible top must be operated only when the car is stationary. Make sure there is sufficient clearance above the convertible top (e.g. in the garage).

f To prevent damp stains and abrasions, only open the convertible top in a dry, clean state.

f Park your car in the shade whenever possible, as the fabric, rubber material and color can be harmed by long exposure to sunlight.

Door windows

If the door windows are closed, they will automatically be lowered a few centimeters before the convertible top is opened or closed.

The door windows close automatically when the convertible top is locked with the latching lever on the windshield frame.

Conditions for operating the convertible top

– The ignition must be switched on (engine running or off).

– Maximum speed 30 mph (50 km/h)
The opening/closing process of the convertible top will be interrupted if the maximum speed is exceeded.

f Reduce speed.
Press button again.
The opening/closing process is ended.

Opening convertible top

Releasing the latching lever

f Press on the release plate **A**.
Latching lever **B** pops into engaging position.

Releasing convertible top

Caution!

Risk of damage by the locking hooks on the roof frame when the latching lever is not engaged correctly.

f Make sure that the latching lever is felt to engage when opening.

f Swivel latching lever **B** to the rear until it is felt to engage.

Opening the convertible top with the button

Warning!

Risk of injury.

f When opening the convertible top, make sure that nobody can be injured by the convertible-top mechanism or the convertible-top compartment lid.

f In order to abort convertible top operation in the event of danger:
up to 6 mph (10 km/h), release the button immediately,
over 6 mph (10 km/h), activate the button briefly.

f Up to 6 mph (10 km/h):
Pull the button back and hold without interruption until the convertible top is in the final position and the message on the on-board computer goes out.
In case of danger, release the button.
Convertible top operation stops.

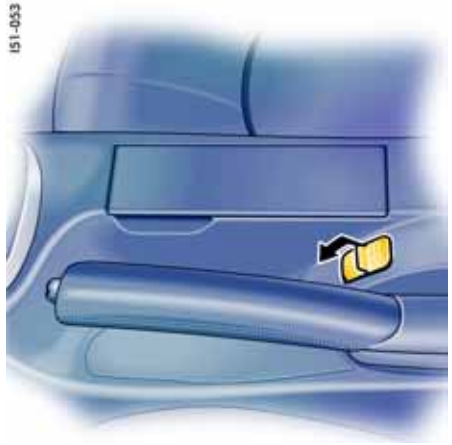
f From 6 mph (10 km/h) to 30 mph (50 km/h):
Pull button back briefly, the convertible top opens automatically. The message in on-board computer goes out.
In case of danger, pull the button back again, the convertible top operation stops.

Closing the convertible top

Warning!

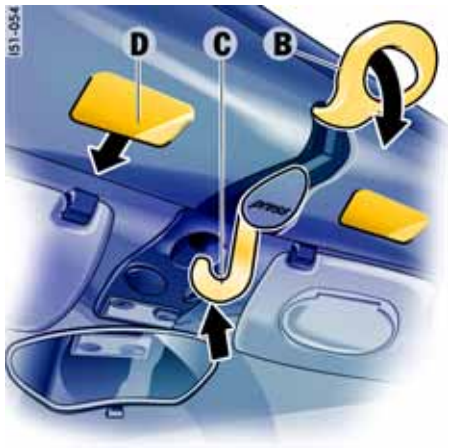
Danger of injury and damage.

- f When closing the convertible top, make sure that nobody can be injured by the convertible-top mechanism or the convertible-top compartment lid.
- f In order to abort convertible top operation in the event of danger:
  up to 6 mph (10 km/h), release the button immediately,
  over 6 mph (10 km/h), activate the button briefly.
- f Keep the lids of the make-up mirrors in the sun visors closed when closing the convertible top.
- f Lock the convertible top with the latching lever after automatic closing.



Closing convertible top with the button

- f Up to 6 mph (10 km/h):
  Push the button forward and hold without interruption until the convertible top is in the final position and the message on the on-board computer goes out.
  In case of danger, release the button.
  Convertible top operation stops.
- f From 6 mph (10 km/h) to 30 mph (50 km/h):
  Push button forward briefly, the convertible top closes automatically. The message in on-board computer goes out.
  In case of danger, push the button forward again, the convertible top operation stops.
- f Lock convertible top with the latching lever.



Locking the convertible top

f Swivel latching lever **B** to the front until it is felt to engage.
The locking hook must engage in the receptacle on the windshield frame **C**.

Note

If the convertible top has been opened for a longer period, it could be necessary to assist the locking hook engage **C**.

f With the vehicle stationary, press and hold the button for convertible top operation and pull the convertible top to the windshield using the handle recess **D**.

Emergency operation

f Before performing emergency operation, please check:
Was the ignition switched on and the handbrake applied?
Are the electrical fuses defective?
Please observe the chapter “ELECTRICAL SYSTEM” on Page 246.

Warning!

There is a danger of injury and risk of damage during emergency operation.
There is a danger of crushing or pinching body parts at all moveable convertible top parts which could cause serious personal injury.

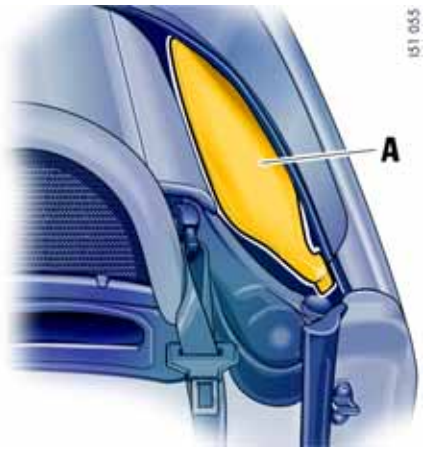
f Take great care when performing emergency operation.

f Do not operate the convertible top during and after emergency operation.

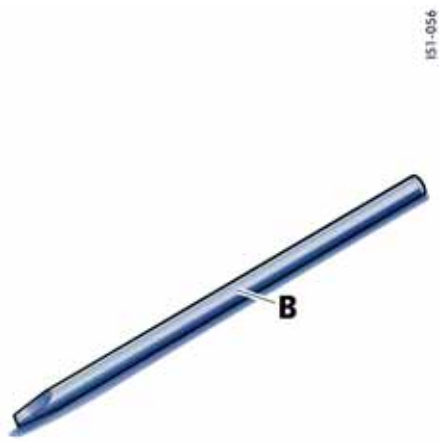
f Lever off joint rods only with the greatest care.

f If the convertible top is not in the rearward final position, the convertible-top compartment lid or the convertible top could fall down when the joint rods are levered off.
For this reason, hold convertible top or convertible-top compartment lid firmly before levering off the second joint rod.

f During emergency operation, ensure that the paint is not damaged.



1. Remove the ignition key so that the convertible top is not operated unintentionally.
2. On both sides of the car, unclip the black rod cover **A** and pull it up and out.

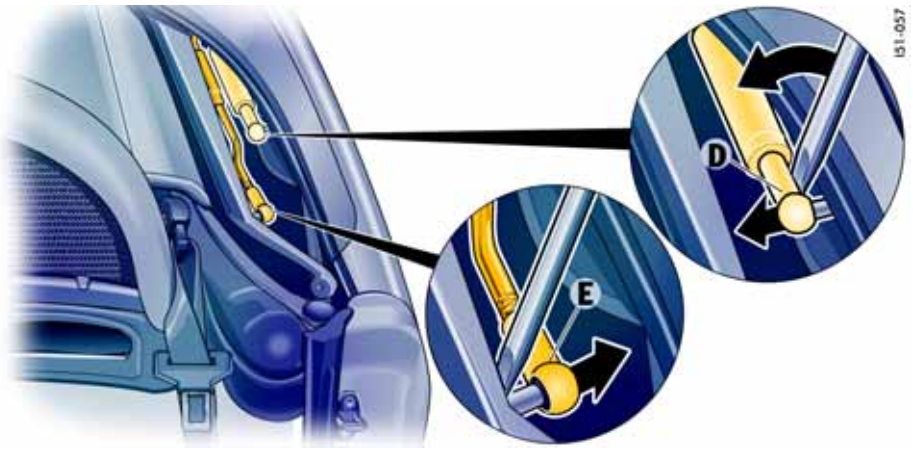


3. Take lever **B** out of the tool kit.

⚠ Warning!

Danger of crushing or pinching.

- f Lever off joint rods only with the greatest care.
- f If the convertible top is not in the rearward final position, the convertible-top compartment lid or the convertible top could fall down when the joint rods are levered off.
  For this reason, hold convertible top or convertible-top compartment lid firmly before levering off the second joint rod.

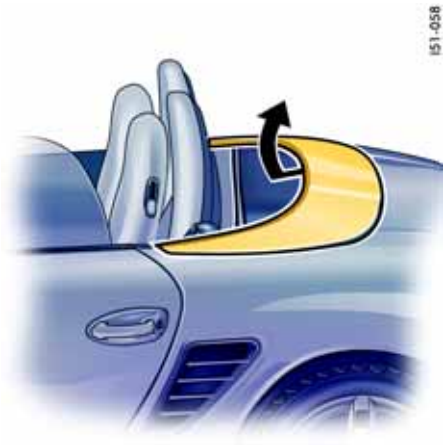


Example: *Convertible top in rearward final position*
D · *Joint rod for convertible-top compartment cover (black ball head fastening)*
E · *Joint rod for convertible top (white ball head fastening)*

The position and accessibility of the joint rods change depending on the position of the convertible top. It can be helpful to fold up the rear part of the convertible top.

f Please observe the chapter “OPENING ENGINE COMPARTMENT LID” on Page 203.

4. Lever joint rod **D** (black fastening) off the ball head with blade of lever **B**.
   As the connection is under spring tension, a corresponding amount of force is required to lever off the ball head, creating danger of crushing and pinching.
5. When levering off joint rod **D** on the other side of the vehicle, the convertible-top compartment cover must be held so that it does not fall down in an uncontrolled manner to protect against injury from a fallen cover.



6. Grasp convertible-top compartment cover in the center and set up completely (arrow).
7. Lever joint rod **E** (white fastening) off the ball head with blade of lever **B**.
   A corresponding amount of force is required to lever off the ball head, creating danger of crushing and pinching.
8. When levering off joint rod **E** on the other side of the vehicle, the convertible top must be held so that it does not fall down in an uncontrolled manner to protect against injury from a fallen cover.
9. Lift convertible top with both hands (arrow) and close.
10. Lock convertible top.
11. Carefully lower convertible-top compartment cover.

⚠ Caution!

Danger of damage at the convertible top.

f After emergency operation, do not operate the convertible top with the rocker switch.

f Drive slowly to an authorized Porsche dealer in order to have the fault remedied.

Windstop

f Make sure that all windstop parts are fastened securely, especially when driving with the convertible top open.

Note

When the convertible top is closed, it is a good idea to remove the center section of the windstop to permit good ventilation of the interior or for demisting the rear window.
This is particularly the case in cold, wet weather.

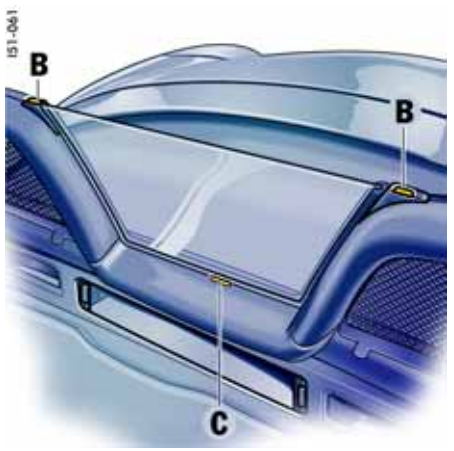
Removing outer windstop parts

f Press windstop parts to the rear and up out of the roll-over bar and take it out.

Installing outer windstop parts

f First insert the windstop parts in the roll-over bar from the rear, then push it up into the bar.

f Make sure that the three plastic tongues **A** fully engage in the roll-over bar.



Removing central section of windstop parts

f Press release buttons **B** and take out the windstop toward the rear.

Installing center section of windstop

f First insert the windstop in receiver **C** from the rear, then, one after the other, press forward until both upper mounts **B** engage audibly.

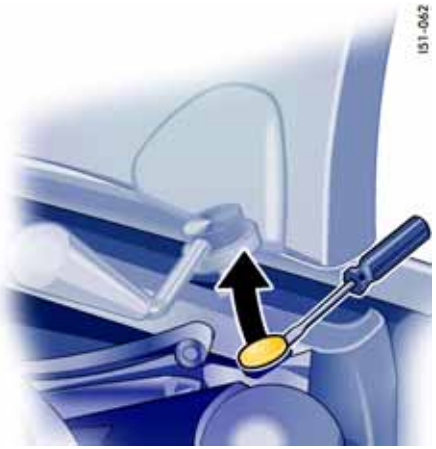
Hardtop

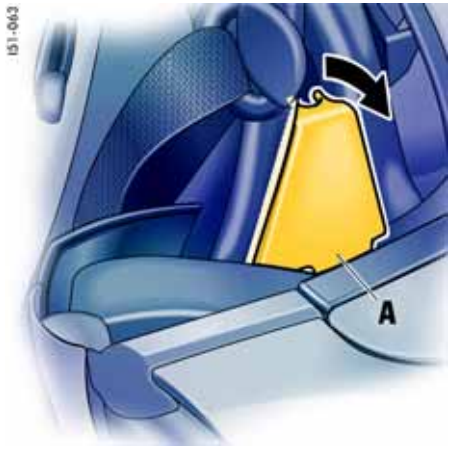
Since the convertible top stays open for a long time, it must be absolutely dry and clean before being opened.
This prevents damp stains and abrasion damage.

Your autorized Porsche dealer will be pleased to advise you about correct hardtop storage.

Note

The inserts for locking of the pivot locks are not installed on vehicles delivered without a hardtop. It is essential to have the necessary parts retro-fitted by an authorized Porsche dealer before a hardtop is fitted for the first time.





Fitting the hardtop

1. Open doors and convertible top.
2. Carefully remove both plastic covers (arrow) out of the pivot locks, using a screwdriver. Store plastic covers.
   Note
   These plastic covers are included with vehicles that are factory-equipped with a hardtop.
3. Pull off cover **A** on the roll-over bar.

4. Remove the connector of the convertible top heated rear window and insert into the rear empty socket.

5. Remove cover from front locking lever (arrow).

6. Press red locking button of the front locking lever (arrow **A**).
   Open latch completely (arrow **B**).

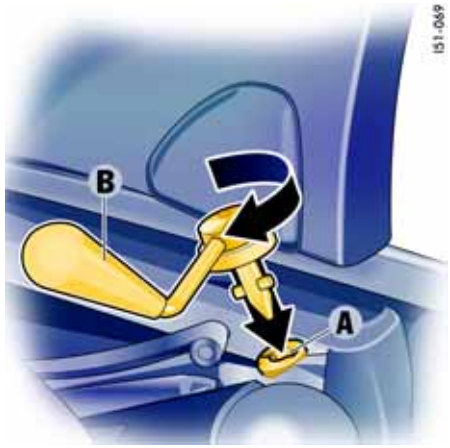
7. Put both pivot locks in the opening position on the hardtop.
   The handles must point inwards.
   Refer to illustration on right.

8. With one person on each side, grasp hardtop and **carefully** lift over the car.
9. Insert hardtop front into the sockets on the windshield frame.

⚠ Warning!

Danger of pinching fingers or hands.

f Evenly lower the hardtop at both sides.



10. Lower hardtop at rear.
    The pivot locks must be completely sunken into the locks (arrow **A**).
    If necessary, move latching lever slightly.
11. Swing both latching levers to the rear until they can be felt to engage (arrow **B**).

12.Swing locking lever of front latch to the rear (arrow **A**).
The locking hook must engage in the windshield frame (arrow **B**).
When the hardtop is correctly latched, the white marking stripe on the red locking button (arrow **C**) must be visible.

Caution!

Risk of damage due to inadvertent operation of the convertible top when the hardtop is fitted.

f Make sure that front locking lever **A** is always correctly locked.
This disables the convertible-top drive.

13.Fit cover on the front locking lever.

14.Insert the plug of the hardtop heated rear window into the socket.

Removing the hardtop

1. Make sure that the hardtop is placed on a clean, soft surface.
2. Open doors.
3. Remove cover from the front locking lever.
4. Open front latch.
5. Open rear pivot locks (swivel inwards).
   Unplug plug of the hardtop heated rear window.
6. With one person on each side, grasp the hardtop.
   Lift hardtop at rear and pull out of the sockets on the windshield frame at front.

⚠ Warning!

Danger of pinching fingers or hands.

f Evenly lift the hardtop at both sides.

7. Carefully lift the hardtop up and off the vehicle to the rear.
8. Close front hardtop latch.
   Fit cover on the front latch.
9. Close pivot locks on the vehicle with the plastic covers.
10. Remove the connector of the convertible top heated rear window from the empty socket and insert into the socket.

11. Swivel the sash guide of the seat belt forward.
    Insert the lower retaining lugs of the cover from above and clip in the upper retaining lugs on the bar.

Maintenance, Car Care

Exercise Extreme Caution when
Working on your Vehicle 184
Wiper Blades 185
Coolant Level 186
Engine Oil 188
Engine Oil Level 189
Engine Oil Recommendation 190
Brake Fluid Level 192
Fuel Economy 194
Operating Your Porsche
in other Countries 195
Fuel 196
Fuel Recommendations 198
Portable Fuel Containers 199
Emission Control System 200
How Emission Control Works..... 201
Fuel Evaporation Control..... 202
Washer Fluid 202
Opening Engine Compartment Lid 203
Power Steering 207
Air Filter 208
Combination filter 208
Automatic Transmission Fluid 208
Manual Transmission Oil 208
Car Care Instructions 209

Exercise Extreme Caution when Working on your Vehicle

Danger!

Ignoring the following instructions may cause serious personal injury or death.

- 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 fans can start or continue running as a function of temperature, even with the engine switched off.
  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 place the vehicle on stable supports if work has to be carried out under the vehicle. Jacks are not suitable for this kind of work.
- 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.

Power measurements

Power measurements on dynamometers are not approved by Porsche.

Wiper Blades

f When wiper performance deteriorates, replace the wipers.

f Please observe the chapter “CAR CARE INSTRUCTIONS” on Page 209.

Caution!

Risk of damage if the wiper arm accidentally falls back on to the window.

f 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.

f Thaw the wiper blades before loosening them.

Maintenance note

If the wiper blades rub or squeak, this can be as a result of the following:

– If the vehicle is washed in an automatic car wash, residues may adhere to the windshield. These residues can only be removed using a special cleaning solution.
Please contact your authorized Porsche dealer for further information.

– The wiper blades may be damaged.

f Replace damaged wiper blades as soon as possible.

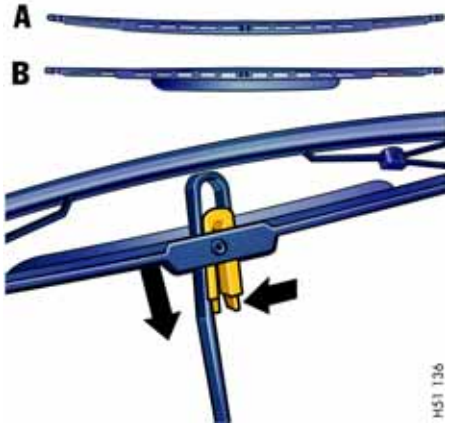
Changing windshield wiper blades

Caution!

Risk of damage.
If a wiper blade is not changed properly, it can come loose when the car is moving.

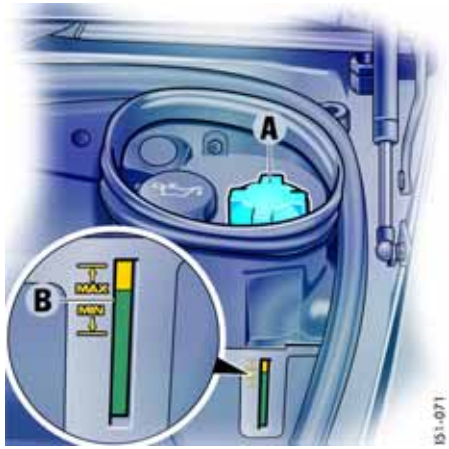
f Check whether the wiper blade is seated securely.
The wiper blade must engage the wiper arm properly.

1. Apply the handbrake.
2. Switch the wipers off (position **0**) and remove the ignition key.
3. Fold windshield wiper arm away from the windshield.



A - *Passenger's side, curved wiper blade*
B - *Driver's side, wiper blade with spoiler*

4. Press together the plastic spring of the wiper blade (**right arrow**).
Pull wiper blade out of wiper arm.
5. Insert new wiper blade until you feel it engage.
Ensure that the new wiper blade is inserted into the wiper arm in the same position:
– direction of the spoiler on the driver side,
– curvature on the passenger side.
6. Carefully fold wiper arm back onto the windshield.



A - *Coolant expansion tank cap*
B - *Coolant level*

Coolant Level

f Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 184.

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.

Only use antifreeze authorized by Porsche.

Checking coolant level

The expansion tank with its filler orifice is in the rear luggage compartment.

f Check the coolant level regularly at the transparent window of the 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.

f Do not open the cap of the expansion tank while the engine is hot.

f Allow the engine to cool down before opening the cap and protect your hands, arms and face from any possible escape of hot coolant.

f Keep coolant out of children’s reach.

f 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.

Risk of damage from overflowing coolant.

f Take care while topping off coolant not to soil the luggage compartment or items of luggage.

1. Switch engine off and let it cool.
   Please observe the chapter “COOLING SYSTEM” on Page 86.
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.

Radiator fans

The radiator and radiator fans are in the front of the vehicle.

Warning!

Risk of injury. The fans can start running as a function of temperature, even with the engine switched off.

f Exercise extreme caution when working in the area of the radiator fans.

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.

Engine Oil Level

f Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 184.

f Regularly check the oil level using the on-board computer after the vehicle is refuelled.
Please observe the chapter “OIL DISPLAY AND MEASUREMENT OF THE ENGINE OIL LEVEL” on Page 111.

f The oil inlet opening is in the rear luggage compartment.

Topping off engine oil

Warning!

Engine oil is hazardous to your health and may be fatal if swallowed.

f Keep engine oil out of children’s reach.

Used engine oil contains chemicals that have caused cancer in laboratory animals.

f Always protect your skin by washing thoroughly with soap and water.

Caution!

Risk of damage from overflowing engine oil.

f Take care while checking and topping up engine oil not to soil the luggage compartment or items of luggage.

1. The on-board computer indicates how much oil must be added.
2. Unscrew cap of the oil filler opening and pull out filling aid.
3. Add at most half a liter of engine oil at a time.
4. Measure oil level again with the on-board computer.
5. Add more engine oil if necessary. **Never add more engine oil than required to reach the max. mark.**
6. Push filling aid in with the cap and close cap carefully.

Engine Oil Recommendation

Recommended oil viscosity ranges dependent on ambient temperatures

Ambient temperature seasonal	SAE Viscosity Range engine oils
generally above –13°F/–25 °C	SAE 0W-40, 5W-40, 5W-50 approved by Porsche
generally below –13°F/–25 °C	SAE 0W-40 approved by Porsche

Use only engine oils approved by Porsche.

If in doubt ask your authorized Porsche dealer for Porsche tested and approved all-season oils.

Oil change

The engine oil has to be changed at the intervals listed in your **Maintenance Schedule**.

f Please observe the chapter “CAPACITIES” on Page 286.

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 up 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 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.

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 (mesured 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.

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.

Brake Fluid Level

f Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 184.

f **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.

f Keep brake fluid out of children’s reach.

f 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 and clutch systems is in the front luggage compartment.

1. Open and remove cover flap **A**.
2. Regulary check the brake-fluid level on the transparent expansion tank through the window **B**.
   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.

f 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 con ditions, 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, braking-circuit failure.

If the warning lights should light up while driving:

f Stop immediately in a suitable place.

f Do not continue driving.
Please have the fault remedied at your nearest authorized Porsche dealer.

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 (traffic lights, jams, level crossings).
- 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.

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.

Fuel

Warning!

Fuel is highly flammable and harmful to health.

- f Fire, open flame and smoking are prohibited when handling fuel.
- f Avoid contact with skin or clothing.
- f Do not inhale fuel vapors.

To prevent damage to the emission control system and engine:

- f Never drive the tank completely out of fuel.
- f Avoid high cornering speeds after the warning lights have come on.

- f Please observe the chapter “FUEL ECONOMY” on Page 194.
- f Please observe the chapter “EMISSION CONTROL SYSTEM” on Page 200.
- f Please observe the chapter “FUEL” on Page 88.

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.

Opening the filler flap

The filler opening is under the filler flap in the front right fender.

- f 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:

- f Open the passenger door.
- f Pull the ring in the right-hand door aperture (**arrow**).

Refuelling

Fuel tank capacity is listed under “Capacities”. Porsche does not recommend the use of fuel additives.

Fuel is highly flammable and harmful to health.

f Please observe the chapter “CAPACITIES” on Page 286.

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.

Note

The oil level is automatically measured during refuelling.

f Please observe the chapter “OIL DISPLAY AND MEASUREMENT OF THE ENGINE OIL LEVEL” on Page 111.

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.

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 light 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.

f Never carry additional fuel in portable containers in your vehicle.

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

Danger!

Danger of fire and serious personal injuries or death.

- 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.

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.

f 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.

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 front luggage compartment, to the rear left.

Capacity

– Without headlight cleaning system: approximately 2.5 liters.

– With headlight cleaning system: approximately 6 liters.

Adding washer fluid

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.

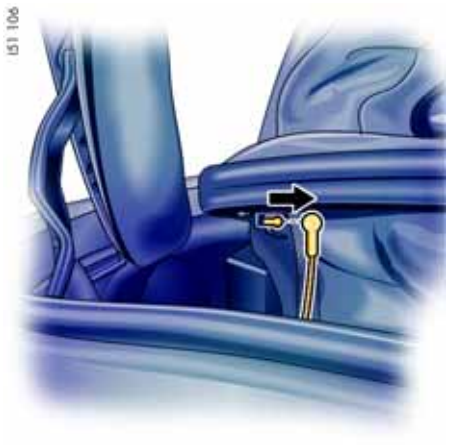
f Do not use engine coolant anti-freeze or any other solution that can damage the car's paint, in the washer reservervoir.

1. Please follow all the information on the container of the cleaning agent.
2. Undo the cap (arrow).
3. Top up the washer fluid and carrefully replace the cap.

Warning light

If less than 0.5 liter remains, a warning message appears on the on-board computer.

f Add washer fluid.



Opening Engine Compartment Lid

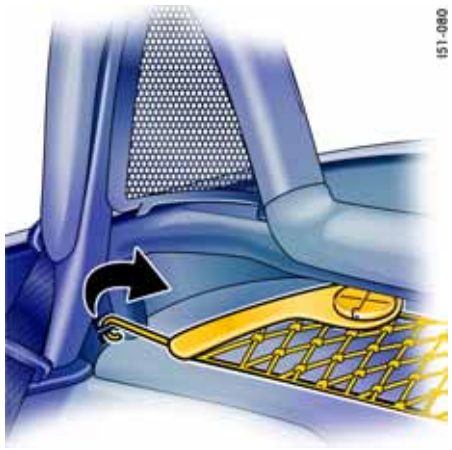
Moving convertible top to service position

1. Open or close the convertible top far enough so that it is approximately 60 cm away from the windshield frame.
   Please observe the chapter “CONVERTIBLE TOP” on Page 170.
2. **Withdraw the ignition key so that the convertible top cannot be operated unintentionally.**
3. Pull off the two upper ball heads of the tension ropes (arrow).
4. Unclip fabric covering from the two holders (arrow) downwards.

5. Fold rear part of the convertible top forward (arrow). Press upper part of the rear window down when doing this.

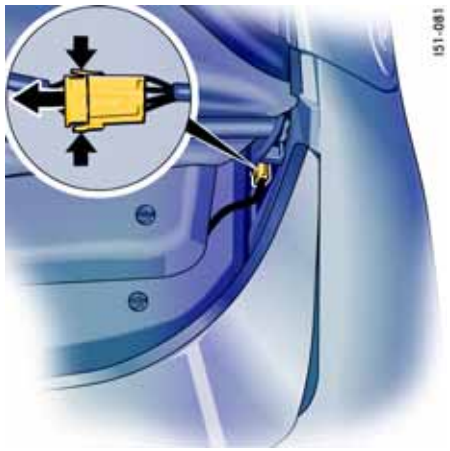
6. Undo Velcro fastening strip of the restraining strap.

7. Engage restraining strap in the convertible top guide.



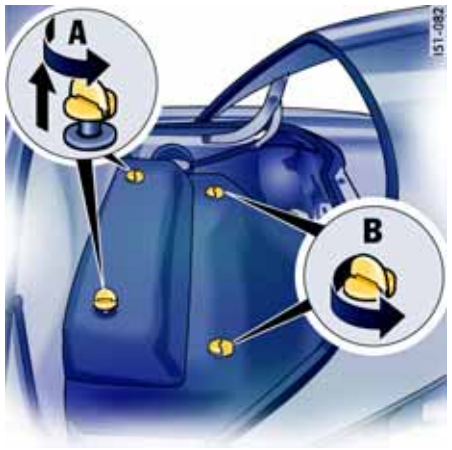
Disengaging luggage net

f On vehicles with luggage net, unhook the hooks on both sides of the roll-over bar (arrow).



Removing storage box

f On vehicles with BOSE High End sound package, disconnect the electrical plug connection of the loudspeakers.
To do this, press the securing levers (small arrows) at the sides.
The plug connection is fastened on the outer right side of the roll-over bar.



f Open turn-locks **A** of the storage box and pull out by approx. 1.5 cm until they engage.
Take out storage box to the rear.

Removing carpet covering

f Open turn-locks **B** of the carpet covering.
Remove carpet covering.

On vehicles with luggage net, the two front turn-locks also have to be opened.

Removing engine compartment lid

1. Withdraw the ignition key so that the convertible top cannot be operated unintentionally.

f Open all 5 catches of the engine compartment lid with an Allen key.

f Remove engine compartment lid.

Warning!

Risk of intoxication. Exhaust or fumes from the engine compartment could enter the passenger compartment.

f Do not drive with the engine compartment lid open.

Closing Engine Compartment Lid

1. Withdraw the ignition key so that the convertible top cannot be operated unintentionally.

Warning!

Risk of intoxication. Exhaust or fumes from the engine compartment could enter the passenger compartment.

f Make sure that the engine compartment lid closes tightly and all catches are fully locked.

2. Put on engine compartment lid.
   Fully lock all 5 catches of the engine compartment lid with an Allen key.
3. Put on carpet covering.
   Lock turn-locks of the carpet covering.
   Vehicles with luggage net: 4 turn-locks.
   Vehicles with storage box: 2 turn-locks.
4. Push storage box under the supplemental safety bar from behind.
   Press down and lock turn-locks of the storage box.
5. On vehicles with BOSE High End sound package, connect the electrical plug connection of the loudspeakers.
6. Disengage the retaining strap and fasten it at the rear part of the convertible top with the Velcro fastening strip.
7. Fold down rear part of the convertible top.
8. Clip fabric covering into both holders.
9. Engage both lower ball heads of the tension ropes.
10. Open or close convertible top.
    Please observe the chapter “CONVERTIBLE TOP” on Page 170.

Engine compartment lid behind the seats

An additional lid for assembly and servicing work is located under the carpet behind the seats.

Power Steering

Warning!

Risk of accident.
When the engine is stopped (e.g. when on tow) or the power steering has failed there is no steering assistance.
Therefore, substantially more force will have to be exerted in order to steer.

- f Exercise great care when being towed.
- f Have the fault remedied at your nearest authorized Porsche dealer.

Note

The flow noise heard at full steering lock is design-related and does not indicate a defect in the steering system.

Checking hydraulic fluid

- f Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 184.

The hydraulic fluid reservoir is located in the engine compartment.

- f Only use hydraulic fluid authorized by Porsche.
- f Please observe the chapter “CAPACITIES” on Page 286.
- f Check the fluid level with the engine stopped and **cold** (approximately 68°F/20°C).

1. Open the engine compartment lid.
   Please observe the chapter “OPENING ENGINE COMPARTMENT LID” on Page 203.
2. Open the reservoir cap.
3. Wipe measuring rod.
   Close lid and reopen. The fluid level should lie in the area below the ”Cold“ marking.
   Add hydraulic fluid if necessary.
4. 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.

Air Filter

The air filter is on the left-hand side of the engine compartment.

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.

f In dusty conditions, check the filter element more frequently and replace if necessary.

Combination filter

The fresh air passing through the combination filter into the passenger compartment is virtually free of dust, pollen, and unpleasant odours.

f If the outside air is polluted by exhaust fumes, press the circulating-air button.

A dirty filter can be the cause of reduced air throughput:

f Have the filter replaced by an authorized Porsche dealer.

Regular filter replacement is part of servicing.

Automatic Transmission Fluid

The torque converter and the transmission are lubricated with Automatic Transmission Fluid (ATF). The final drive requires transmission oil.

f Please observe the chapter “CAPACITIES” on Page 286.

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.

f Please observe the chapter “CAPACITIES” on Page 286.

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.

Car Care Instructions

f Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 184.

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.

f Keep cleaning agents out of reach from children.

f Observe all caution labels.

f Always read directions on the container before using any product. These directions may contain information necessary to avoid personal injury.

f 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.

f 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.

f Test the brakes after each vehicle washing.

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 thoroughly washed for cinders, salt or sanding at winter's end.

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.

- f Do not wash your car in bright sunlight or while the bodywork is still hot.
- f When washing by hand, use abundant water, a soft sponge or wash brush, and Porsche car shampoo.
- f Begin by spraying the body thoroughly with water to rinse away loose dirt.
- f 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.

- f 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).

Convertible top

f Never remove snow and ice using a sharp edged object.

Incorrect care and treatment can damage the convertible top and cause leaks. Any repair work can be done by your authorized Porsche dealer.

Important note

No folding top is 100% leak proof.
Due to the constant changing of loads and strains to which a car is subject to when driving on roads, minor wind noise and seepage at joints between the top, body and doors on convertible tops cannot be completely sealed in certain areas. Therefore small leaks are considered normal for these models. In addition, your convertible top should not be washed in a car wash. The top may experience damage by the brushes or may experience leaks due to the high pressure water streams directed in areas which would not encounter water in normal driving conditions.

Cleaning

Caution!

Risk of damage due to the cleaning jet of the high-pressure cleaning equipment or hot wax treatment.

f Do not clean the convertible top with high-pressure cleaning equipment.

f Do not use the hot wax treatment.

Do not wash the convertible top each time the car is washed.
It is usually sufficient to spray or wash it with clean water.

f Brush dust off the convertible top in the direction of the weave using a soft brush.

f Only if there is heavy dirt, wet the convertible top with lukewarm water and the Porsche Wash-Shampoo & convertible-top cleaner, using a sponge or soft brush, and rub gently. Rinse Wash-Shampoo & convertible-top cleaner thoroughly off the convertible top with clean water.

f After washing it, treat the convertible-top cover at least once a year with the special Porsche convertible-top care product.
Do not allow the convertible-top care product to come into contact with paint or windows. If it does, remove immediately.

f If there is leakage in the convertible-top cover or at its seams or folds, the special Porsche convertible-top care product can be used.

f Please note the information on the container.

f Remove bird droppings immediately since the acid in them will make the rubber swell and the convertible top will become leaky.

f Open convertible top only when it is completely dry, otherwise damp stains and scrub marks may occur which cannot be removed.

f Try to remove spots from the convertible-top cover by rubbing carefully with a soft rubber sponge.

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:

– Convertible top (hot wax treatment cannot be used, as the wax attacks the convertible top material),

– Windshield wipers (always switch them off to prevent them wiping unintentionally in intermittent or sensor operation)

– External telephone antenna (always unscrew)

– Fixed rear spoiler or extended rear spoiler

– 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).

f Please consult the operator before using automatic car washes.

f 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.

Door locks

f To prevent the door locks from freezing during the cold season, the lock cylinders should be covered during a wash.

f Should the locks freeze, use an ordinary de-icer. In many cases, a well warmed key can help.
Never use excessive force.

Paint

f 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.

f Do not apply silicone polishes to the windshield, windows or convertible top.

f 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 vehicle will be retained for years to come.

f Simply apply paint preservative after washing the vehicle and polish it smooth.

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

f 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.

f Wash the affected area immediately after treating it.

Minor paint damage

f 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 data bank in the Maintenance booklet.

Cleaning and preserving 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.

Caution!

Risk of damage to the alternator.

f Do not point the cleaning jet directly at the alternator, or cover the alternator.

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.

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.

f Clean all windows regularly, inside and outside, with Porsche window cleaner.

f 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.

f Remove dead insects with the Porsche insect remover.

Note

Door windows feature a water-repellent (hydrophobic) coating which prevents soiling of the windows.

This coating is subject to natural wear and can be renewed.

f Consult an authorized Porsche dealer.

Wiper blades

Wiper blades that are in perfekt condition are vital for a clear view.

f Replace the wiper blades twice per year (before and after the cold season) or whenever wiper performance deteriorates.

f 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.

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 under-body, 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 underbody 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, the convertible top seals and hardtop seals must not be treated with care products.

Stainless steel exhaust tailpipes

Stainless steel exhaust tailpipes can discolour due to soiling, strong heat, and combustion residues.

The original polish can be achieved again using commercially available metal polishing paste or metal polish.

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.

Light alloy wheels

f Please observe the chapter “WASHING” on Page 210.

⚠Warning!

Danger of accident if cleaning agents (e.g. wheel cleaning agents) come into contact with the brake discs. The resulting film on the brake discs can impair braking performance.

f Make sure that no cleaning agent comes into contact with the brake discs.

f If cleaning agent has come into contact with the brake discs, thoroughly clean the brake discs with a strong jet of water.

f Paying attention to any road users behind you, dry the brake discs by applying the brakes at short intervals.

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.

f 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.

f 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 recognizable.
This fine material is distinguished by an outstanding seating comfort, special suppleness and a typical patina.

Leather care and treatment

f Clean all types of leather regularly to remove fine dust using a soft, damp, white woollen cloth or a commercially available microfibre cloth.

f 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.

Fabric, upholstery, carpets and floor-mats

f Use only a vacuum cleaner or a medium stiff brush.

f 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.

f 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.

f Secure the floor mat to prevent it from sliding into positions that could interfere with the safe operation of your vehicle - do not lay them loosely in the vehicle.
Your Porsche dealer will be glad to offer you nonskid-floor mats of the correct size.

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.

Heavy abrasion or rubbing when cleaning causes a lasting change in the surface.

Cleaning when lightly soiled

f Wet a soft cloth with water or a neutral soap solution and wipe off the dirt.

Cleaning when heavily soiled

f 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.

f 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.

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.
- Please observe the chapter “BULB CHART” on Page 259.

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 top must be closed. The air vents should be opened.

Practical Tips, Emergency Service

Exercise Extreme Caution when
Working on your Vehicle 220
Tires/Wheels 221
Loading Information 235
Lifting the Vehicle with a Lifting Platform
or Garage Lift 237
Flat Tire 238
Wheel Bolts 241
Spacers 244
Electrical System 246
Battery 249
Jump lead starting 256
Replacing bulbs 258
Headlights 261
Turn signal light 265
Side marker light 268
Tail light 269
Additional brake light 270
Luggage compartment/footwell lights 270
Interior light 271
Adjusting Headlights 272
Towing 274

Exercise Extreme Caution when Working on your Vehicle

Danger!

Ignoring the following instructions may cause serious personal injury or death.

- 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**.
- 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 fans can start or continue running as a function of temperature, even with the engine switched off.
  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.
  Jacks are not suitable for this kind of work.
- 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.

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. “N0”, “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.

⚠ Danger!

Risk of loss of control and serious personal injury or death.

f 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.

f 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.

f Continuing to operate the vehicle without correction could result in a loss of control and serious personal injury.

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.

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.
  Please observe the chapter “VEHICLE IDENTIFICATION NUMBER” on Page 278.
- 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.
- Use only plastic valve caps.
- Do not use commercially available sealant or tire inflating bottles. Only use Porsche approved tire sealant.

Each tire, including the spare (if provided), should be checked every 2 weeks when cold (68°F/20°C) and inflated to the inflation pressure recommended in this Owner's Manual or on the tire-pressure plate.
If your vehicle has tires of a different size than the size indicated in this Owner's Manual or on the tire-pressure plate, you should determine the proper tire inflation pressure for those tires.

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring (TPC) that illuminates a low tire pressure message when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure message illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPC is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPC low tire pressure message.

- On vehicles with tire pressure monitoring:
  Please observe the chapter “TPC TIRE PRESSURE MONITORING” on Page 103.

When tires are warm, the tire pressure is increased.

- Never let air out of hot tires.
  This could cause the tire pressure to fall below the prescribed value.

Insufficient tire filling pressure can cause tires to overheat and thus be damaged – even invisibly. Hidden tire damage is not eliminated by subsequently correcting the tire pressure.

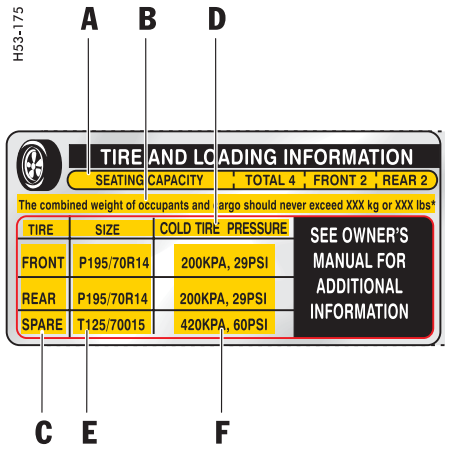
Overloading

Danger!

Risk of personal injury, loss of control and damage to vehicle parts.

- Do not overload your vehicle. Be careful about the roof load.
- If loading the vehicle also correct the tire pressure. Tire pressure for loaded vehicle can be found on the tire pressure plate and in the chapter technical data.
- Never exceed the specified axle load. Overloading can shorten the service life of the tires and car, as well as lead to dangerous vehicle reactions and long braking distances. Damage due to overloading is not covered by the vehicle warranty.

- Please observe the chapter “LOADING INFORMATION” on Page 235.
- Please observe the chapter “TIRE PRESSURE FOR COLD TIRES” on Page 284.



Example of a tire pressure plate A

Tire pressure plate

Depending on when your vehicle was manufactured, the tire pressure plate in the left door aperture will contain different data.

Information on the tire pressure plate A

A Seating capacity
Maximum number of vehicle occupants, including the driver.

B Vehicle load limit
Is the maximum total weight limit specified of the load (passengers and cargo) for the vehicle. This is the maximum weight of passengers and cargo that can be loaded into the vehicle. If a trailer is being towed, the trailer tongue weight must be included as part of the cargo load.
Please observe the chapter “LOADING INFORMATION” on Page 235.

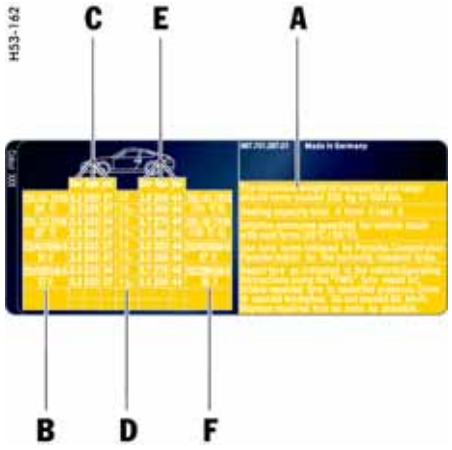
C Tire size for the front axle
Check with your authorized Porsche dealer about the current release status.

D Recommended tire pressure for the front axle
These values are for cold tires (68°F/20 °C).

E Tire size for the rear axle
Check with your authorized Porsche dealer about the current release status.

F Recommended tire pressure for the rear axle
These values are for cold tires (68°F/20 °C).

G In vehicles with collapsible spare wheel:
Size and tire pressure of the spare wheel.



Example of a tire pressure plate B

Information on the tire pressure plate B

A Information for tire sealant, seating capacity, vehicle load limit

B Approved tire size for the front axle

C Permissible tire pressure for the front axle

D Tire pressure for fully loaded or partially loaded vehicle

E Permissible tire pressure for the rear axle

F Approved tire size for the rear axle

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.

f 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.

f 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.

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.

Danger!

Driving on worn tires can result in loss of control of the vehicle and could cause serious personal injuries or death.

f 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.

f 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

- f Avoid damaging tires and wheel rims.
- f If you must drive over a curb or other obstacle, drive slowly and at an obtuse angle.
- f Check tires for uneven wear and damage before driving off.
- f Remove imbedded material.
- f Replace worn or damaged tires immediately.
- f Keep oil, fuel, brake fluid, etc. away from tires.
- f Replace missing valve stem caps.
- f Keep tires inflated correctly.
- f Wash tires when washing the vehicle. Also clean inner side of wheels.
- f Do not use abrasive cleaners when washing the wheels.
- f Check wheel rims for corrosion.
- f Remove road salt, if driving in winter.

Tire damage, puncture

- f 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.

- f Perform a visual inspection if necessary.

Danger!

Risk of serious personal injury or death. Driving the vehicle with low tire pressure increases risk of a tire failure and resulting loss of control. Furthermore, low tire pressure increases rate of wear of the affected tires.

- f Check tires – including sidewalls – regularly for foreign bodies, nicks, cuts, cracks and bulges.
- f After driving off road, examine tires for signs of damage such as cuts, tears, bulges or foreign objects stuck in the tread. Replace a damaged tire if necessary.
- f Cross curb edges slowly and at right angles if possible.
  Avoid driving over steep or sharp curbs.
- f In cases of doubt, have the wheel (particularly the inner side) checked by an authorized Porsche dealer.

Tire replacements

If in doubt, contact your Porsche dealer.
Use only tire makes and types approved 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. “N0”, “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.

f 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 metal valves, the installation and replacement instructions must be observed.

f Use only genuine Porsche metal valves.

f Protect the valve inserts against soiling with valve caps.
Soiled valve inserts can cause a gradual loss of air.

f Use only plastic valve caps.

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.

f If you are in doubt, have the wheel checked by an expert, particularly if you suspect damage on the inside.

f 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

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.
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.

- f Stop the vehicle and check the tires.
- f If no cause for the fault can be found, drive carefully to the nearest authorized Porsche dealer.

Removing and storing tires

- f After changing, adjust tire pressure and torque wheel bolts diagonally to 94 ftlb (130 Nm).

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 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 1204, then the tire was produced in the 12th week of 2004.

f 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.

Danger!

Risk of loss of control and damage to the vehicle as well as serious personal injury or death.
The standard tires profile and rubber mixture are optimized for wet and dry driving conditions, and may not prove favorable for snow conditions.

f Therefore install M+S tires before driving in such conditions.

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.

Danger!

Tires with badly worn treads and studs are very dangerous and could cause accidents resulting in serious personal injuries or death.

f Make sure they are replaced immediately.

f 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.

Comply with all state and local laws governing snow tire and tread depth requirements.

Danger!

Risk of accident and serious personal injury or death due to excessive speed.

f Always check the maximum speed rating on the tire sidewall on any tire on the vehicle.

f Never exceed the maximum speed rating of the tires.

f Fit winter tires to both axles well before the cold season begins.
Your authorized Porsche dealer will be pleased to advise you.

Maintenance note

We recommend fitting winter tires on the vehicle at temperatures below 45°F (7°C).

Winter tires lose their traction capability when their tread depth falls below 5/32 in. (4 mm).

Snow chains

Caution!

Risk of damage to body, axle or brake components.

- f 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.
- f 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.

Fitting snow chains

The use of snow chains is not permitted when 5 mm spacers are mounted.

Caution!

Risk of damage to the wheel housings if the 5 mm spacers are not removed before fitting snow chains.

- f To permit the fitting of snow chains, have the 5 mm spacers removed on all 4 wheels.

- f To fit/remove the spacers:
  Please consult an authorized Porsche dealer.
- f Please observe the chapter “SPACERS” on Page 244.

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., 265/40 ZR 18 (Z = code letter for radial tires for speeds above 150 mph / 240 km/h).

Example of Inscription

Inscription on radial tire

A Tire size

Example: P 265/40 ZR 18 101 Y

- **P** - The tire is designed for Passenger vehicle. This information is not included on all tires.
- **265** - Indication of tire width in mm
- **40** - Indication of tire height to tire width ratio in percent
- **ZR -** code letter for radial tires for speeds above 150 mph / 240 km/h
  There are currently no standards concerning tire strength at speeds above 150 mph (240 km/h).
- **R** - Belt type code letter for radial
- **18** - Indication of rim diameter in inches
- **101** - Load capacity coefficient
- **Y** - Speed code letter
- **XL (Extra Load)** - Tire with increased load rating

B TIN (Tire Identification Number)

Example: DOT xx xx xxxx xxxx

- DOT
  The DOT symbol indicates that the tires comply with the requirements of the US Department of Transportation and provides information about:
- first two-digit code means manufacture's identification mark.
- second two-digit code means tire size.
- third four-digit code means tire type code.
- fourth four-digit code means date of manufacture.
  If, for example, the last four numbers read 0204, the tire was produced in the 2nd week of 2004.

C Tire ply composition and material

The number of layers in the tread and sidewalls and their material composition.

D Maximum permissible inflation pressure

The maximum permissible cold inflation pressure to which a tire can be inflated.

f Do not exceed the permissible inflation pressure.

E Maximum Load rating

The maximum load in kilograms and pounds can be carried by the tire. If you replace tires always use a tire that has the same maximum load rating as the factory installed tire.

F Radial

The identification indicates if the tire has radial structure.

G Term of tubeless or tube tire

Identification for tubeless tires.

Speed code letter

The speed code letter indicates the maximum permissible speed for the tire.
This code letter is shown on the tire sidewall.

T = up to 118 mph (190 km/h)
H = up to 131 mph (210 km/h)
V = up to 150 mph (240 km/h)
W = up to 167 mph (270 km/h)
Y = up to 186 mph (300 km/h)

Tip on driving

Tires with a maximum speed rating that is lower than the specified maximum vehicle speed may be mounted only if they bear an M+S identification on the tire sidewall.

f Please note that in addition to the winter tires, all-season and all-terrain tires are also subject to speed limits and bear this identification.

Inscription on light alloy wheels

Maintenance note

f Protect the valve inserts against soiling with valve caps.
Use only plastic valve caps.
Soiled valve inserts can cause a gradual loss of air.

Note on operation

f The rim width in inches **A** and the rim offset **F** are visible from the outside. This information can be found near the tire valve.

A - *Rim width in inches*
B - *Rim-flange contour code letter*
C - *Symbol for drop-center rim*
D - *Rim diameter in inches*
E - *Double hump*
F - *Rim offset in mm*

Loading Information

Definitions

The Curb weight - actual weight of your vehicle - vehicle weight including standard and optional equipment, fluids and emergency tools. This weight does not include passengers and cargo.

The Gross Vehicle Weight is sum of the curb weight and the weight of passengers and cargo combined.

The Gross Vehicle Weight Rating is the maximum total weight of vehicle, passengers, luggage and optional equipment.

The Gross Axle Weight Rating is the maximum load limit for the front or the rear axle. This information is located on the safety compliance sticker located in the driver's side door jamb.

For determining the compatibility of the tire and vehicle load capabilities:

f Please observe the chapter "TIRES, RIMS, TRACKS" on Page 282.

The load capacity coefficient (e.g. "101") is a minimum requirement.

The Gross Combined Weight Rating is the maximum total weight rating of vehicle, passengers and cargo.

The Vehicle Capacity Weight - Load Limit - is the maximum total weight limit specified of the load (passengers and cargo) for the vehicle. This is the maximum weight of passengers and cargo that can be loaded into the vehicle. This information can be found on the tire pressure plate.

The maximum loaded vehicle weight is the sum of curb weight, accessory weight, vehicle capacity weight and production options weight.

The load rating is the maximum load that a tire is rated to carry for a given inflation pressure.

The maximum load rating is the load rating for a tire at the maximum permissble inflation pressure.

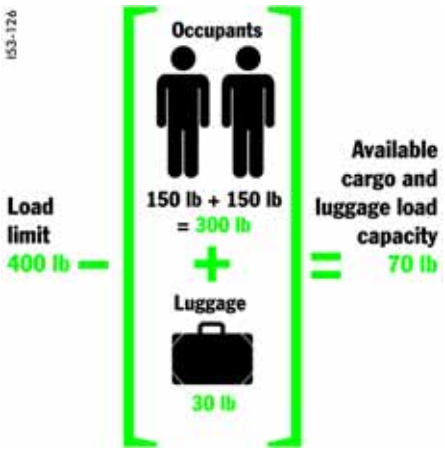
The cargo capacity is the permissible weight of cargo, the substracted weight of passengers from the load limit.

f Never exceed the permissible limits.

Danger!

Risk of personal injury, loss of control and damage to vehicle.

f Never exceed the specified axle loads. Overloading can shorten the service life of the tires and car, as well as lead to dangerous vehicle reactions and long braking distances. Damage due to overloading is not covered by the vehicle warranty.



Example for determining the combined weight of occupants and cargo

Vehicle Load Capacity

f The combined weight of occupants and cargo should never exceed the weight shown on the tire plate in the vehicle.
Please observe the chapter “VEHICLE IDENTIFICATION NUMBER” on Page 278.

f Never exceed the number of passengers shown on the tire pressure plate in the vehicle.

Determining the combined weight of occupants and cargo:

f Add the weight of all occupants and then add the total luggage weight (**figure**).

Steps for determining correct load limit

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX pounds" on your vehicle's placard (depending on the date of manufacture).
2. Determine the combined weight of the driver and passenger that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passenger from XXX kilograms or XXX pounds.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 400 lbs. and there will be two - 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 100 lbs. (400 - 300 (2 x 150) = 100 lbs.).
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

A - Front jacking point

B - Rear jacking point

Lifting the Vehicle with a Lifting Platform or Garage Lift

The car must be raised **only** at the illustrated jacking points.

Caution!

Serious injury and/or serious damage to the engine or the vehicle may occur, if you lift the vehicle improperly.

- Never lift the vehicle at any other place than the jacking points.
- Never lift the vehicle by the engine, transmission or axles.
- Do not 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.

Flat Tire

Warning!

Failure to follow these instructions may result in serious personal injuries to you or to bystanders.

- f 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. Set the parking brake.
- f Do not park your vehicle where it may contact dry grass, brush or other flammable materials. The hot parts of the exaust system could set such materials on fire, thereby causing both property damage and severe or fatal physical injury.

A tire sealant and compressor with pressure tester are located in the toolbox in the luggage compartment.

- f Please observe the safety and operating instructions on the special sealant bottle with a special Porsche part number and on the compressor – these are essential.

Important note

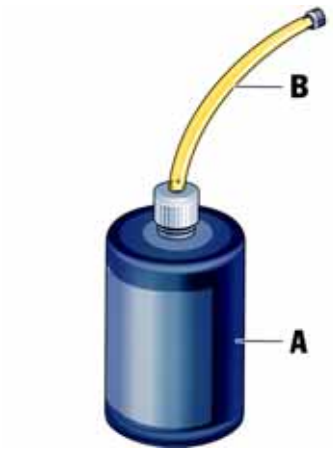
Sealing the tire with the tire repair kit is only an emergency repair. Even with the tire airtight, it may be used only for short journeys in an emergency.
The maximum permitted speed is 50 mph (80 km/h).

- f Do not use commercially available sealant or tire inflating bottles.
  Use only the tire sealant located in the tool box in the luggage compartment.

Warning!

Risk of accident.

- f Have tires replaced by a specialist workshop as soon as possible.
- f Avoid hard acceleration and high cornering speeds.



E31-114

A · *Filler bottle*
B · *Filler hose*

Tire sealant

The tire sealant can be used to seal small cuts, especially in the tire tread.

Sealing the tire with the tire sealant is only an emergency repair, so you can drive to the next workshop. Even with the tire air-tight, it may be used only for short journeys in an emergency.

The tire sealant and a compressor with pressure tester can be found in the tool box in the luggage compartment.

The tire sealant comprises:

– A filler bottle

– A filler hose

– A valve turner and

– A spare valve insert.

Danger!

Risk of accident.

f Use the tire sealant only in the case of cuts or punctures no larger than 0.15 in. (4 mm).

f Never use the tire sealant if the rim is damaged.

Warning!

The sealant is highly flammable and harmful to health.

f Fire, naked flame and smoking are prohibited when handling tire sealant.

f Avoid contact with skin, eyes or clothing.

f Keep tire sealant away from children.

f Do not inhale vapors.

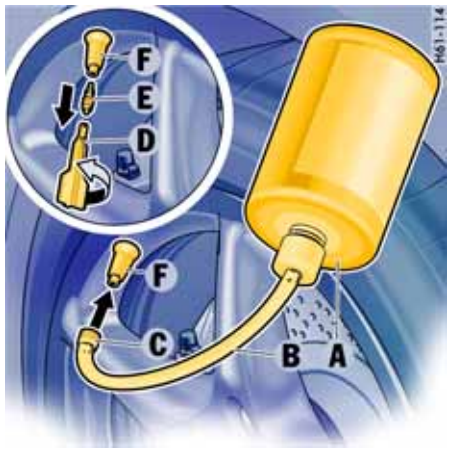
In case of contact with the sealant:

f If sealant gets on the skin or in the eyes, thoroughly rinse the affected part of the body off without delay.

f Change soiled clothing immediately.

f Visit a doctor immediately in the event of an allergic reaction.

f If sealant was swallowed, thoroughly rinse out the mouth without delay and drink plenty of water.
Do not induce vomiting.
See a doctor immediately.



A - *Filler bottle*
B - *Filler hose*
C - *Plug of the filler hose*
D - *Valve turner*
E - *Valve insert*
F - *Tire valve*

Inserting sealant

1. Leave the object that caused the puncture in the tire.
2. Remove sealant and the enclosed sticker from the luggage compartment.
3. Adhere the sticker in the driver's field of vision.
4. Shake filler bottle **A**.
5. Screw filler hose **B** onto the filler bottle.
   The filler bottle is now open.
6. Unscrew valve cap from tire valve **F**.
7. Remove valve insert **E** from the tire valve with valve turner **D**.
   Keep the valve insert in a clean and dry place.
8. Remove plug **C** of the filler hose **B**.
9. Push filler hose onto the tire valve.
10. Hold filler bottle higher than the level of the tire valve and press it together forcefully until the bottle is completely emptied into the tire.
11. Pull filler hose off the tire valve.
12. Twist the valve insert firmly into the tire valve using the valve turner.
13. Connect the compressor to the cigarette lighter and inflate the tire to the prescribed tire pressure.
    Please observe the chapter “TIRE PRESSURE FOR COLD TIRES” on Page 284.
14. Screw valve cap onto the tire valve.
15. Check the tire pressure after driving for around 10 minutes.
    If the tire pressure is less than 22 psi (1.5 bar), do not continue driving.
    If a value of more than 22 psi (1.5 bar) is indicated, correct the pressure to the prescribed value.
16. Please consult your authorized Porsche dealer.

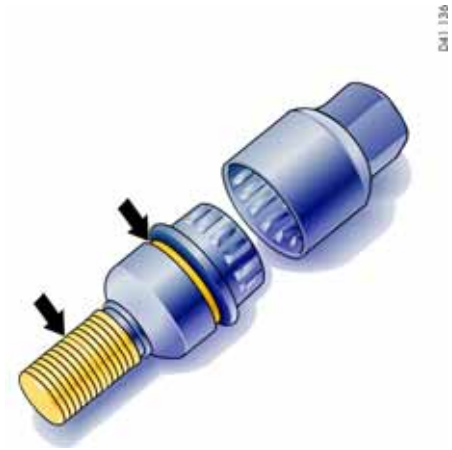
Care Instructions

After drying, any sealant that emerges can be peeled off like a film.

Warning!

Risk of accident.

- f Have the tire replaced by an authorized Porsche dealer immediately.
- f Avoid hard acceleration and high cornering speeds.
- f Do not exceed maximum speed of 50 mph (80 km/h).
- f Please always observe the safety and operating instructions, which can be found in the separate operating instructions for the sealant and on the compressor.



Wheel Bolts

Warning!

Risk of wheel bolt breakage and wheel separation, resulting in severe personal injury or death.

f Follow all instructions concerning wheel bolts.

f Always clean the wheel bolts before fitting.

f 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.

f Replace damaged wheel bolts.
Only use the Original Porsche wheel bolts specially designed for this vehicle type.

Tightening torque

Tightening torque of wheel bolts:
130 Nm/96 ftlb.

Wheel Securing Bolts

The wrench socket for the wheel securing bolts is in the tool box.

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.

f 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.

Checking tire pressure with a pressure gauge

f Please observe the chapter “TPC TIRE PRESSURE MONITORING” on Page 103.

1. Remove the valve stem cap from the tire.
2. Press the pressure gauge onto the valve stem.

Note on operation

f Do not press too hard or force the valve stem sideways, or air will escape.
If the sound of air escaping from the tire is heard, reposition the pressure gauge.

3. Read the tire pressure on the gauge stem and compare it to the permissble tire pressure. This information can be found on the tire pressure plate or in the chapter Technical Data.

   Please observe the chapter “TIRE PRESSURE FOR COLD TIRES” on Page 284.

4. Remove the pressure gauge.

Changing a wheel

Warning!

Risk of injury. The car may slip off the jack.

- Make sure that no one is in the vehicle when jacking up and changing a wheel.
- Always place the car on stable supports if work has to be carried out under the car.

Risk of damage to the brake discs of the Porsche Ceramic Composite Brake (PCCB).

- Always screw in both assembly aids when changing a wheel.

Note

The tools required for changing a wheel (e.g. jack, wheel bolt wrench, assembly aids) are not supplied with the car. They are available at your authorized Porsche dealer.

1. Fully apply the handbrake, engage 1st gear or select position **P** and withdraw the ignition key.
2. Secure the car against rolling away, e.g. by means of wedges under the wheels on the opposite side.
   This is particularly important on slopes.

*Screw in assembly aid for vehicles **without** Porsche Ceramic Composite Brake*

3. Slightly slacken the wheel bolts of the wheel to be changed.
4. Raise the car until the wheel lifts off the ground.
   Please observe the chapter “LIFTING THE VEHICLE WITH A LIFTING PLATFORM OR GARAGE LIFT” on Page 237.

*Screw in two assembly aids for vehicles **with** Porsche Ceramic Composite Brake*

Note on operation

- To remove or mount the spacers:
  Please observe the chapter “SPACERS” on Page 244.

5. Remove 1 or 2 wheel bolts (see respective illustration). Screw in assembly aids instead of the wheel bolts.
   Remove the remaining wheel bolts.

6. Take the wheel off and put a new wheel on.
7. Please observe the chapter “WHEEL BOLTS” on Page 241.
   Screw in wheel bolts; remove assembly aids and screw in the remaining wheel bolts. Initially tighten bolts in diagonally opposite sequence so that the wheel is centered.
8. Lower the car completely.
9. Tighten wheel bolts in diagonally opposite sequence.

Immediately after changing a wheel, use a torque wrench to check the prescribed tightening torque (130 Nm / 96 ftlb.).

Spacers

f Use the spacers only together with wheels and fastening parts approved by Porsche.
Before having spacers fitted, find out about the current authorisation status.

Mounting an emergency spare wheel

If 5 mm spacers are fitted, these must **not** be removed to mount an emergency spare wheel.

Fitting snow chains

The use of snow chains is not permitted when 5 mm spacers are mounted.

⚠ Caution!

Risk of damage to wheel housings if the 5 mm spacers are not removed before fitting snow chains.

f In order to enable the fitting of snow chains, have the 5 mm spacers removed on all 4 wheels.

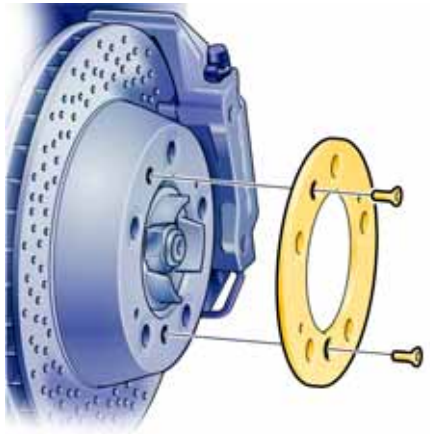
Note on operation

f To fit/remove the spacers:
Please consult an authorized Porsche dealer.

Removing the spacers

f Please observe the chapter “CHANGING A WHEEL” on Page 242.

1. Unscrew both countersunk screws (M6x16) on the wheel hub.
2. Remove the spacer.
3. Fasten the brake disc with the **short** M6x12 countersunk screws, part No. 900.269.047.09.
Tightening torque **10 Nm (7.5 ftlb.)**.
4. For wheel mounting without a spacer, 5 mm **shorter** wheel bolts (part No: 996.361.203.02) must be used.
Tightening torque **130 Nm (96 ftlb.)**.

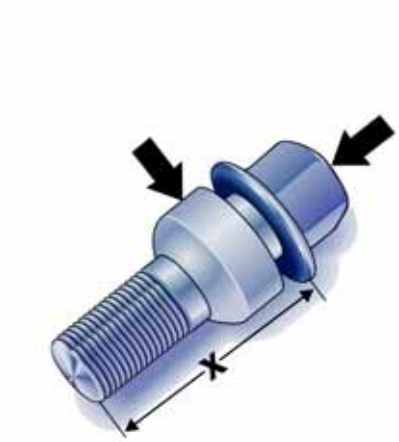


Required scope of parts if the spacers are removed

Short countersunk screws (M6x12)
Part No: 900.269.047.09

1 set of short wheel bolts
Part No: 996.361.203.02

Short anti-theft protection devices
Part No: 996.361.057.01



Long wheel bolt
X - bolt length approx. 50 mm
Arrows - marks

Wheel bolt identifying features

The **long** wheel bolts are identified on the face surface of the bolt head with GT or in red, or the moveable spherical cap ring is galvanised in red. The long wheel bolts must only be used together **with** 5 mm spacers fitted.

The **short** wheel bolts are not marked in colour. The short wheel bolts must only be used **without** 5 mm spacers fitted.

Tightening torque for both wheel bolts:
130 Nm (96 ftlb.).

Electrical System

In order to avoid damage and faults in electrical or electronic systems, electrical accessories should be installed at your authorized Porsche dealer.

f 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.

f Disconnected the battery during all work on the electrical system.
Please observe the chapter “BATTERY” on Page 249.

Relays

Defective **relays** should be changed only by an authorized workshop.

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 2 hours or 7 days

If the ignition key is removed, loads which are switched on or are in standby mode (such as the luggage compartment light, interior light and radio) are automatically switched off after approx. **2 hours**.

If the vehicle is not started or unlocked with the remote control within **7 days**, the remote control standby function is switched off (to save 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.

A · *Diagnostic socket*

Replacing fuses

In order to prevent damage to the electrical system due to short circuits and overloads, the individual circuits are protected by fuses.
The fuse box is located in the driver's footwell.

A · *Plastic gripper*
B · *Spare fuses*

1. Switch off the load with the defective fuse.
2. Pull off plastic cover at the finger hole (**arrow**). The **fuse plan** and **instructions for emergency unlocking of the luggage compartment lid** can be found on the inner side of the cover.
3. Remove the corresponding fuse from its slot using the plastic gripper **A** in order to check it. A blown fuse can be identified by the melted metal strip.
4. Replace only with fuses of the same rating.

Note

- If a fuse blows repeatedly consult an authorized Porsche dealer.
- Never try to "repair" fuses: you may cause serious damage to other parts of the electrical system.

Emergency unlocking of the front luggage compartment lid

If the battery is discharged, the lid can be opened only with the aid of a donor battery.

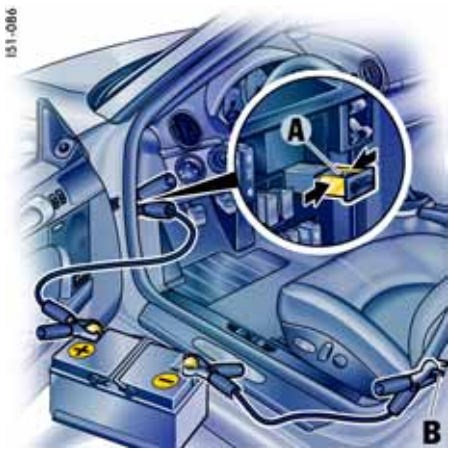
Unlocking lid

1. Use the key to unlock the vehicle at 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. Unlock the front luggage compartment lid with the remote control.
   The alarm system is switched off.



7. Disconnect the negative cable first, then the positive cable.
8. Push the positive terminal **A** into the fuse box and push on the plastic fuse box cover.

Note

The engine cannot be started with this method.

f Please observe the chapter “JUMP LEAD STARTING” on Page 256.

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.
- Do not wipe battery with a dry cloth.

Risk of severe personal injury and damage to the fabric, metal or paint.

- Wear eye protection.
- 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.

Risk of explosion as a result of static charge.

- Do not wipe the battery with a dry cloth.
- Eliminate potential electrostatic charge by touching the vehicle before touching the battery.

Charge state

A well-charged battery prevents starting problems and has a longer useful life.
Traffic density, speed limits, requirements regarding noise, exhaust gas and fuel consumption reduce the engine speed and, hence, the generator output.
However, the large number of electrical loads has markedly increased the demand for electrical power.

In order to avoid unintended battery discharge

- f Switch off unnecessary electrical loads in city traffic, on short trips and in queues.
- f Always withdraw the ignition key when leaving the vehicle.
- f Avoid frequent operation of the convertible top and operation of the Porsche Communication Management system when the engine is not running.

Battery care

- f Keep battery surface clean and dry.
- f Ensure that cell plugs and terminal clamps are firmly secured.

Checking acid level

The acid level should be more frequently checked by a qualified specialist workshop during the summer months and in predominantly warm countries.

Charging the battery

Your Porsche partner will be pleased to advise you about a suitable charger.

1. Always observe the instructions of the charger manufacturer.
   Depending on the type of charger, the battery may have to be disconnected. Extremely important: disconnect the negative cable first, and then the positive cable – danger of short circuit!
   Reconnection must be carried out in reverse order.
2. Before charging, cold batteries must be warmed up indoors.
3. Frozen batteries must not be charged. They must be replaced with a new battery.
4. When charging, ensure adequate ventilation.
5. Connect charger to the battery.
   Only plug into the mains and switch the charger on when it has been correctly connected up.

⚠ Warning!

Hydrogen gas generated by the battery could cause an explosion, resulting in severe personal injuries.

- f Charge battery in a well ventilated area.
- f Never charge a frozen battery. It may explode because of gas trapped in the ice. Allow a frozen battery to thaw out first.
- f 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.

Winter driving

The capacity and ability of the battery to store power decreases at low outside temperatures. Moreover, the battery is more heavily loaded in the winter months, e.g. by the heated rear window, the more frequent use of additional lights, the blower and the windshield wipers, etc.

f Have the battery checked before winter begins.

Keep the battery well charged to prevent it from freezing.
A discharged battery can freeze even at 23°F/-5 °C, but a fully charged one only freezes at -40°F/-40 °C.

Laying up the vehicle

If the vehicle stands for long periods in the garage or workshop, the doors and lids should be closed.

f Please observe the chapter “EMERGENCY UNLOCKING OF THE FRONT LUGGAGE COMPARTMENT LID” on Page 248.

f Withdraw the ignition key and, if necessary, disconnect the battery.
When the battery is disconnected, the alarm system ceases to function!

Even if you put your vehicle out of operation, the battery still discharges.

f The battery must be charged, i.e. connected to a charger, approximately every 6 weeks in order to preserve functioning.
Always observe the instructions of the charger manufacturer.

f Store a battery that has been removed in a dark, cool place, but not subject to frost.

Replacing the battery

The battery is subject to normal wear: its service life depends heavily on the care you give it, climatic conditions and the conditions of use (distances, loads).

It is not possible to use the details on the battery case to determine a comparable battery that meets all the specific requirements of Porsche.

f Use only a battery that meets the specific requirements of your vehicle as a replacement. We recommend that you use an Orignal Porsche battery.

f Please observe the disposal instructions for batteries!

Putting vehicle into operation

After the battery is connected or after an **exhaustively discharged** battery is charged, the multifunctional PSM light lights up on the instrument panel and a message appears on the on-board computer to indicate a fault.

This fault can be remedied with a few simple steps:

1. Start the engine.
2. With the vehicle stationary, perform a few steering movements to the left and right and then drive a short distance in a straight line until the multifunctinal PSM light goes out and the message on the on-board computer disappears.
3. If the warnings do **not** disappear, then:
   Drive carefully to the nearest qualified specialist workshop.
   Have the fault remedied.
4. After the warnings disappear, stop the vehicle in a suitable place.
5. Perform adaptation of the power windows:
   Please observe the chapter “STORING END POSITION OF THE WINDOWS” on Page 29.

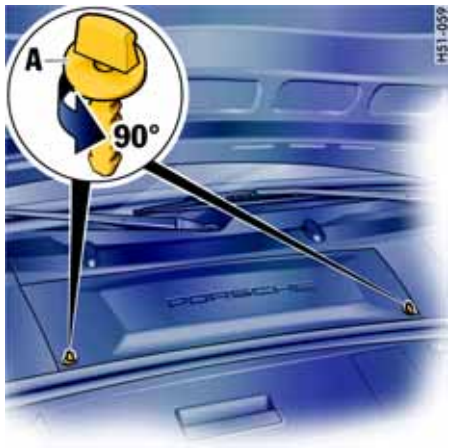
Ignition key / ignition lock

f Do not insert the ignition key into the ignition lock if the vehicle battery is discharged.
The ignition key can no longer be removed.

The key cannot be removed until the vehicle electrical system is supplied with power again.

f Please observe the chapter “EMERGENCY UNLOCKING OF THE FRONT LUGGAGE COMPARTMENT LID” on Page 248.

6. Please observe the chapter “JUMP LEAD STARTING” on Page 256.



Removing the battery

The battery is located in the luggage compartment under a black plastic lid.

1. Switch off engine and all electrical loads.
2. Open turn-locks **A**.
   Remove plastic lid.

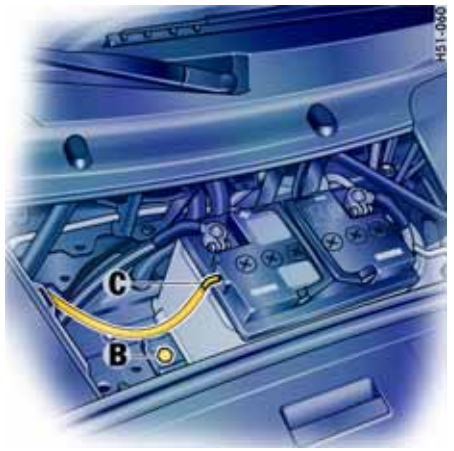
Warning!

Risk of damage to generator and electronic control units.

f Do not disconnect battery while the engine is running.

Risk of caustic burns from escaping acid.

f Do not tilt the battery when removing it.



3. Pull off vent hose **C**.
4. Important: disconnect the negative lead first, and then the positive lead – danger of short circuit!
5. Unscrew fastening screw **B**.
6. Remove battery.

Installing the battery

1. Insert battery and push it all the way to the stop.
2. Tighten fastening screw **B**.
3. Important: connect the positive cable first and then the negative cable – risk of short circuit!
4. Push on vent hose **C**.
5. Fit plastic lid.
   Lock turn-locks **A**.

I51-087

Replacing the remote-control battery

The battery should be changed when the range of the radio remote control becomes smaller or when the light-emitting diode no longer flashes when the remote control is operated.

1. Using your finger nail or a small screwdriver, carefully lift off the cover of the key grip (arrow).
2. Replace battery (observe polarity). Replacement battery – Lithium CR 2032, 3 volts
3. Replace cover and press together firmly. Please observe the disposal instructions for batteries.

Jump lead starting

f Please observe the chapter “EMERGENCY UNLOCKING OF THE FRONT LUGGAGE COMPARTMENT LID” on Page 248.

f Please observe the chapter “BATTERY” on Page 249.

If the battery is flat, the battery of another vehicle can be used to start the car with the aid of jump leads.
Both batteries must be 12 volt types. The capacity (Ampere hours, Ah) of the donor 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.

Warning!

Risk of damage and injury due to short circuit.

f Use only standard jump leads with sufficient cross section and completely insulated clamps.
Follow the jump lead manufacturer’s instructions.

f Route the jump leads so that they cannot be caught by moving parts in the engine compartment.
The vehicles must not be in contact, otherwise current might flow as soon as the positive terminals are connected.

f Carefully ensure that conductive jewellery (rings, chains, watch straps) do not come into contact with live parts of the vehicle.

Danger of caustic burns.

f Do not lean over the battery.

Danger of gas explosion.

f Keep sources of ignition, e.g. naked flame, burning cigarettes or sparks due to cable contact, away from the battery.

f Before connecting jump leads, it is essential to thaw out a frozen battery.

Connecting jump leads

Always observe the sequence below:

1. Connect the **red positive lead** to the positive terminal of the discharged battery first, then connect it to the positive terminal of the donor battery.
2. First connect the **black negative cable** to the negative terminal of the donor battery, then connect it to a suitable grounding point on the vehicle with the discharged battery.
   This grounding point must lie as far as possible from the battery.
   For example, a solid metal part or the engine block are suitable grounding points.

   If no suitable grounding points are to be found on either vehicle, the negative cable must carefully be connected directly to the negative terminal of the battery.

   If a suitable grounding point is to be found only on the donor vehicle, the negative cable must first be connected to the terminal of the discharged battery, then to the grounding point of the donor vehicle.

3. Run the engine of the donor car at a higher speed.
4. Start the engine.
   An attempted start using jump leads should not last more than 15 seconds. Then allow a waiting period of at least one minute.
5. **Note**
   Before disconnecting the jump leads, electrical loads such as the heated rear window and the heating fan blower should be switched on (the vehicle's lights must **not** be switched on). This reduces voltage peaks which may occur when disconnecting the jump leads.

   With the engine running, remove both jump leads in reverse order.

Replacing bulbs

Warning!

Risk of short circuit.

f Always switch off the relevant load when changing bulbs.

Risk of injury. The Bi-Xenon headlights are under high voltage when installed.

f Exercise extreme caution when working in the area of the Bi-Xenon headlights.

Risk of damage. Bulbs of a higher wattage can damage the lamp housing.

f Only use the bulbs specified in the bulb chart.

f Bulbs must be clean and free from grease.

f Never touch bulbs with your bare hands. Use a cloth or soft paper when replacing bulbs.

f Always carry spare bulbs with you.
In certain countries, the carrying of spare bulbs is mandatory.

Caution!

Risk of damage to headlights due to excessive temperatures and abrasion.

f Attach no coverings (e.g. films, “stone guards”) in the area of the headlights.

f 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.

f To prevent scratches, do not rub with a dry or merely moist cloth, tissue or insect sponges.

Bulb chart

	Type, rating
Halogen low beam	H7, 55 W
Low beam with Bi-Xenon headligh	Philips, D2S 35W
Halogen high beam	H 9, 65W
Additional high beam with Bi-Xenon headlight	H 11, 55W
Fog light	H8, 35W
Tail light, rear fog light, brake light, tail light	P21, 4W
Tail light, reflector	P21, 5W
Reversing light	P21W
Turn signal light, front and rear	LL PY21W (long-life)
Door guard,/curb light/footwell light/ luggage compartment lihgt	W5W
Parking light	W5W Blue-Vision
License plate light	C5W
Side marker Light	W3W

Warning!

Risk of short circuit.

- Always switch off the relevant load when changing bulbs.

Risk of injury. The Bi-Xenon headlights are under high voltage when installed.

- Exercise extreme caution when working in the area of the Bi-Xenon headlights.

Risk of damage. Bulbs of a higher wattage can damage the lamp housing.

- Only use the bulbs specified in the bulb chart.

- Bulbs must be clean and free from grease.
- Never touch bulbs with your bare hands. Use a cloth or soft paper when replacing bulbs.
- Always carry spare bulbs with you.
  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.

Headlights

Caution!

Risk of damage to headlights due to abrasion and excessive temperatures.

f Do not affix any coverings (e.g. “stone guards” or films) in the area of the headlights.

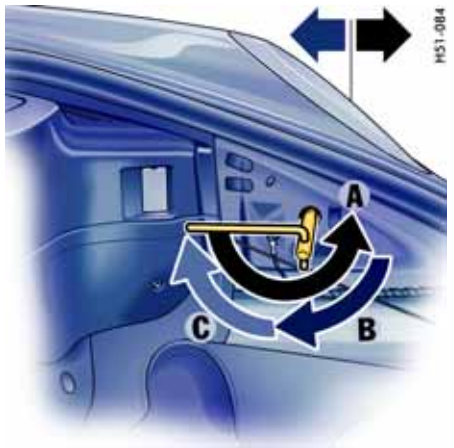
Note

The headlights can mist up depending on the temperature and humidity.

f To ensure optimum ventilation, do not cover the gap between headlight and body (e.g. “stone guards” or films).

Removal

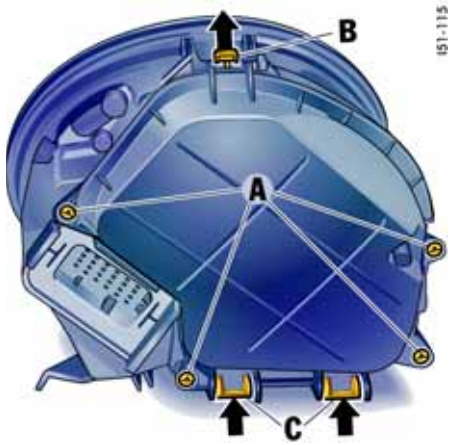
1. Unscrew plastic nut **A**. Detach side carpeting.



2. Remove rubber plugs from the unlocking opening.
3. Place socket wrench (tool kit) on the unlocking spindle.
   The tongue of the wrench should point horizontally to the rear.
4. Turn wrench approx. 180° **A**. The headlight is unlocked and pushed forward slightly during this process.
5. Turn socket wrench back until it is pointing vertically downward **B** and leave in position.
6. The headlight is now unlocked and can be pulled forward out of the wing.

Installing

1. Insert the headlight into the guide rails and push it fully into the wing.
2. Push headlight to the rear and at the same time the turn socket wrench until it points horizontally to the rear **C**.
   The headlight locking device must perceptibly and audibly engage.
3. Insert rubber plug into the unlocking opening and secure the carpeting.
   Check the function of all lights.



Low beam, high beam and additional high beam

Opening the lid of the headlight housing

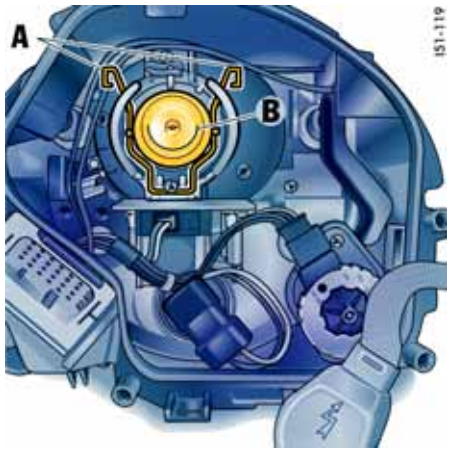
1. Unscrew the 4 screws **A**.
2. First lift release tab **B**, then push both release tabs **C** upwards and take off lid.

Halogen headlights
Changing bulb for low beam

1. Pull off plug **A**.
2. Disengage fixing loop **B**.
3. Replace defective bulb.
   When doing so, ensure bulb is seated properly.
4. Reassemble in reverse order.

Bi-Xenon headlight
Changing bulb for low beam and high beam

1. Turn the plug counter-clockwise (bayonet lock) and pull it off.



2. Disengage both fixing loops **A**.
3. Replace defective bulb **B**.
   When doing so, ensure bulb is seated properly.
4. Engage both fixing loops **A**, push on plug and turn right as far as the stop.

Changing bulb for high beam or additional high beam (Bi-Xenon headlight)

1. Turn the 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. Push on lid until it perceptibly engages.
2. Fasten lid with the 4 screws.

Turn signal light

Changing bulb

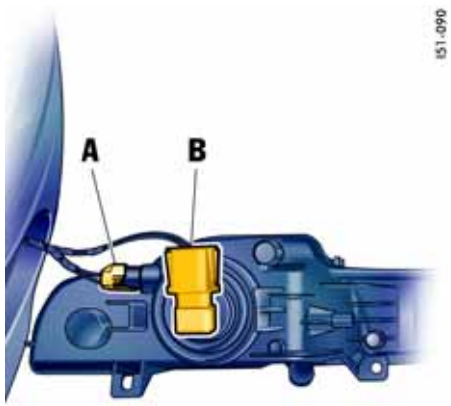
1. Turn lid counter-clockwise and pull it off.
2. Turn bulb holder counter-clockwise (bayonet lock).
3. Replace the defective bulb (bayonet fitting).
4. Insert lamp holder and turn it clockwise.
5. Replace lid and close.

***A** - Fog light height adjustment*
***B** - Fastening screw*

Fog light/parking light

1. Loosen the two screws **B**.

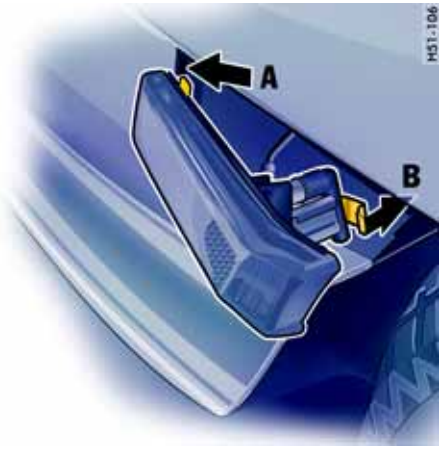
2. Lower headlight slightly downward and disengage locating cam in cover projection. Unscrew light downwards at an angle.



***A** - Parking light*
***B** - Fog light*

3. Turn the holder counter-clockwise and pull it out.
   Replace defective bulb (bayonet lock).
   Push holder back in and turn towards the right.

4. Put guide pin of headlight on the guide rail, engage locating cam in cover projection, press headlight to the rear and push upward until it can be felt to engage.
5. Screw in both screws.
6. Check operation of the headlight.



Side marker light

Changing bulb

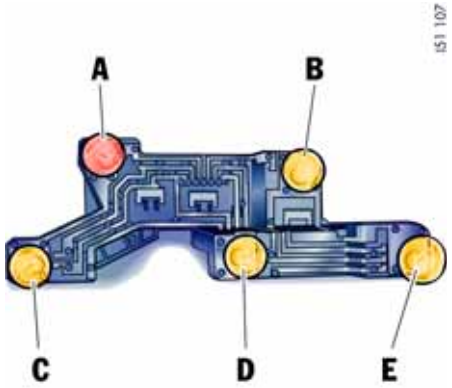
1. Remove cap in the wheel housing liner with the screwdriver.
2. Insert the screwdriver into the opening in the wheel housing liner at right angles to the direction indicator housing.
   By pressing with the screwdriver, disengage the securing spring of the direction indicator housing.
3. Remove indicator light and undo bulb holder (bayonet lock).
4. Remove the bulb from the holder and replace it. Insert holder.
5. Insert the direction indicator's retaining lugs **A** into the side section at the front.
   Push in direction indicator until the securing spring **B** is felt to engage.
6. Press cap into the wheel housing liner.
   Check operation of the light.

Tail light, left

Tail light

Changing bulbs

1. Remove carpeting covering the tail light. Unscrew the securing nuts to do this.
2. Press the mounting of the lamp bracket upwards (arrow) and remove the bulb holder.



A - *Turn signal light*
B - *Reversing light*
C - *Rear fog light, rear light*
D - *Tail light*
E - *Brake light, rear light*

3. Replace the defective bulb (bayonet fitting).
4. Reassemble in reverse order. Check operation of the light.

License plate lights

Changing bulb

1. Unscrew both screws **A** and remove the lens.
2. Remove defective bulb from between the contact springs and replace.
3. Reassemble in reverse order. Check operation of the light.

Additional brake light

The light-emitting diodes of the additional brake light cannot be replaced individually.

f Have the defective brake light replaced in a qualified specialist workshop.
We recommend a Porsche partner for this work as they have trained workshop personnel and the necessary parts and tools.

Luggage compartment/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 cut-out first from one side then from the other. Check operation.

Interior light

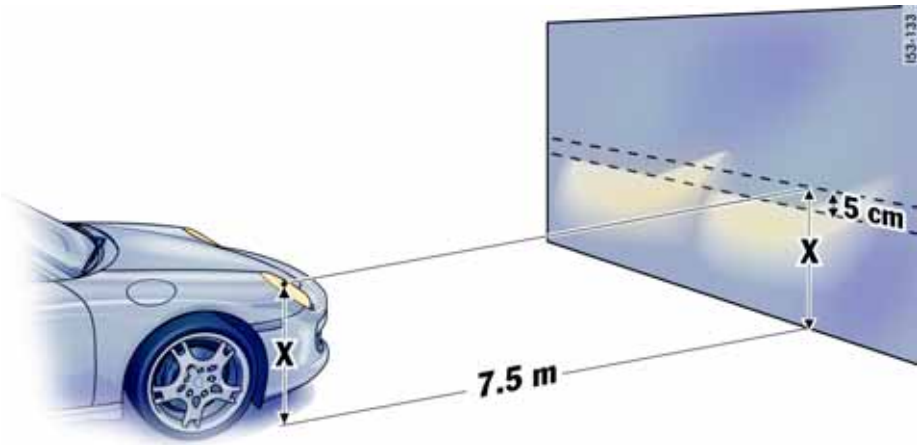
Changing bulb

1. With a screwdriver (arrow), carefully press light out of the cutout in the lining.
2. Undo bulb holder (bayonet mount). Remove bulb and replace.
3. Reassemble in reverse order. Check operation of the light.

Door guard/curb light

Changing bulb

1. With a screwdriver (arrow), carefully push out the light.
2. Pull the bulb holder out of light housing. Remove defective bulb and replace.
3. Install the bulb holder and insert the light.



Adjusting Headlights

f Please observe the chapter “REPLACING BULBS” on Page 258.

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 24.6 ft. (7.5 m) from the front lens of the headlamp.
The correct position of the cutoff is 2.0 in. (5 cm) at 24.6 ft. or 7.5 m (0.4°) below a horizontal line, **x** cm from ground to the center of the headlamp lens.

Lateral adjustment of the headlights should be carried out at a specialist workshop with an optical adjustment unit.

Distance

Visual aim shall be performed at not less than 24.6 ft. (7.5) m (this value is a rounded down conversion from the 25-foot distance typical of field aim using a screen). The 24.6 ft. (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.

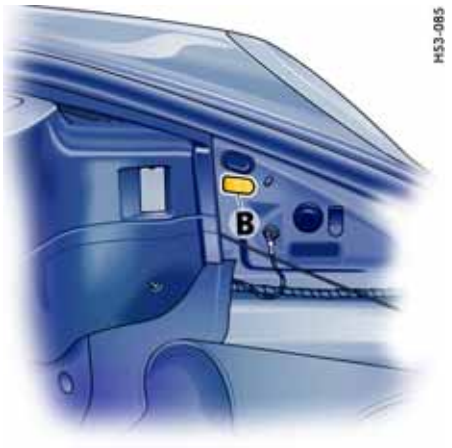
Screen

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 3.3 ft. (1 m) of space outboard of the vehicle's headlamp spacing.

Adjustment screws

f 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*

Vertical adjustment (screw B)

f turn clockwise = beam moves down
turn counter-clockwise = beam moves up

Note

f Do not alter the lateral adjustment.

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 hook

The towing hook is contained in the tool box.

Caution!

Risk of damage to the vehicle.

f Use the towing hook only for an emergency to remove the vehicle off the road. The towing hook 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 hook.

f Never use the towing hook to tow this or any other vehicle.

f Bear in mind the limited ground clearance of your car on uneven surfaces.

Front mounting

The towing hook is stored in the tool box in the luggage compartment.

1. Press the lower edge of the appropriate plastic cover into the bumper until the cover disengages.
2. Pull cover out of the bumper and let it hang by its thread.
3. Completely screw in the towing hook.

Rear mounting

1. Remove license plate.
2. Unscrew the towing hook.
3. Insert plastic cover at the lower edge of the opening.
4. Fold the cover up and press on its upper edge to engage it in the bumper.
5. Completely screw in the towing hook.

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.

Vehicle Identification, Technical Data

Vehicle Identification

When ordering spare parts or making inquiries, please always quote the vehicle identification number.

Vehicle data bank

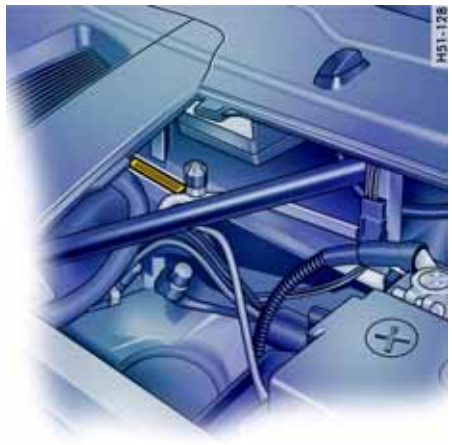
The vehicle data bank is attached to the inside of the ”Maintenance“ booklet.
It contains all important data about your car.

Note

This data bank cannot be re-ordered if it is lost or damaged.

This label contains the following information:

1. Vehicle Identification No.
2. Type/Type description
3. Engine code/Transmission code
4. Paint No./Interior



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 in the front luggage compartment under the battery cover and at the bottom left behind the windshield.

Removing the battery cover

f Please observe the chapter “BATTERY” on Page 249.

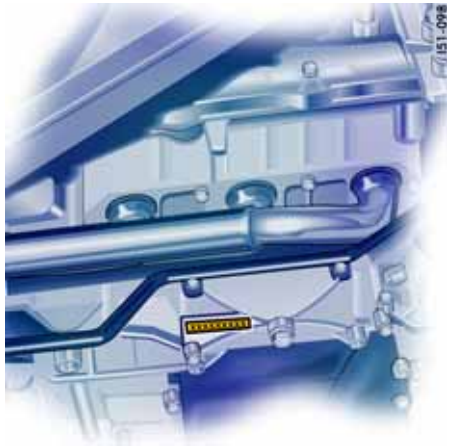
Safety compliance sticker

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.

Tire pressure plate

The tire pressure plate is attached to the left-hand door aperture.



Engine number

The engine number is stamped on the underside of the crankcase.

Technical Data

Engine data

	Boxster	Boxster S
Type	M 96/25	M 96/26
	Horizontally opposed engine, liquid cooled	Horizontally opposed engine, liquid cooled
Number of cylinders	6	6
Bore	3.37 in./85.5 mm	3.66 in./93 mm
Stroke	3.07 in./78 mm	3.07 in./78 mm
Cubic capacity	163.96 cu. in./2687 cm^3	193.98 cu. in./3179 cm^3
Net-horsepower, SAE J 1349	240 hp/176 kW	280 hp/206 kW
at crankshaft speed	6400 rpm	6200 rpm
Net torque, SAE J 1349	199 ft. lb./270 Nm	236 ft. lb./320 Nm
at crankshaft speed	4700 - 6000 rpm	4700 - 6000rpm
Alternator	2100 W	2100 W
Firing order	1 - 6 - 2 - 4 - 3 - 5	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, hydraulic valve clearance compensation	

Transmission

Boxster

Gear ratios	**5-speed manual transmission**	**6-speed manual transmission**	**Tiptronic S**
1st gear	3.50 : 1	3.67 : 1	3.66 : 1
2nd gear	2.12 : 1	2.05 : 1	2.00 : 1
3rd gear	1.43 : 1	1.41 : 1	1.41 : 1
4th gear	1.09 : 1	1.13 : 1	1.00 : 1
5th gear	0.84 : 1	0.97 : 1	0.74 : 1
6th gear		0.82 : 1	
Reverse	3.44 : 1	3.33 : 1	4.10 : 1
Final drive ratio	3.75 : 1	3.875 : 1	4.379 : 1

Boxster S

Gear ratios	**6-speed manual transmission**	**Tiptronic S**
1st gear	3.67 : 1	3.66 : 1
2nd gear	2.05 : 1	2.00 : 1
3rd gear	1.41 : 1	1.41 : 1
4th gear	1.13 : 1	1.00 : 1
5th gear	0.97 : 1	0.74 : 1
6th gear	0.82 : 1	
Reverse	3.33 : 1	4.10 : 1
Final drive ratio	3.875 : 1	3.908 : 1

Tires, Rims, Tracks

Boxster			Tires	Rim	Rim offset	Track
Summer tires		front	205/55 ZR 17 91Y	6.5 J x 17 H2	55 mm	58.7 in./1490 mm
		rear	* 235/50 ZR 17 91Y	8 J x 17 H2	40 mm	60.4 in./1534 mm
	or	front	235/40 ZR 18 91Y	8 J x 18 H2	57 mm	58.5 in./1486 mm
		rear	265/40 ZR 18 101Y	9 J x 18 H2	43 mm	60.2 in./1528 mm
	or	front	235/35 ZR 18 87Y	8 J x 19 H2	57 mm	58.5 in./1486 mm
		rear	265/35 ZR 19 94Y	9.5 J x 19 H2	46 mm	60.0 in./1522 mm
Snow tires		front	205/55 R 17 91V M+S	6.5 J x 17 H2	55 mm	58.7 in./1490 mm
		rear	* 235/50 R 17 96V M+S	8 J x 17 H2	40 mm	60.4 in./1534 mm
	or	front	235/40 R 18 91V M+S	8 J x 18 H2	57 mm	58.5 in./1486 mm
		rear	* 255/40 R 18 95V M+S	9 J x 18 H2	43 mm	60.2 in./1528 mm

The load capacity coefficient (e.g. “91”) and maximum speed code letter (e.g. “V”) are minimum requirements.

Boxster S			Tires	Rim	Rim offset	Track
Summer tires		front	235/40 ZR 18 91Y	8 J x 18 H2	57 mm	58.5 in./1486 mm
		rear	265/40 ZR 18 101Y XL	9 J x 18 H2	43 mm	60.2 in./1528 mm
	or	front	235/35 ZR 19 87Y	8 J x 19 H2	57 mm	58.5 in./1486 mm
		rear	265/35 ZR 19 94Y	9.5 J x 19 H2	46 mm	60.0 in./1522 mm
Snow tires		front	255/40 R 18 91V M+S	8 J x 18 H2	57 mm	58.5 in./1486 mm
		rear	* 255/40 R 18 95V M+S	9 J x 18 H2	43 mm	60.2 in./1528 mm

The load capacity coefficient (e.g. “91”) and maximum speed code letter (e.g. “Y”) are minimum requirements.

▷ When changing tires or fitting new ones: Please observe the chapter “WHEEL BOLTS” on Page 241.

⚠ Danger!

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 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 with the tire + rim combination marked**.

Tire pressure for cold tires

Summer and snow tires

17 inch wheels	front	29 psi (2.0 bar)
	rear	36 psi (2.5 bar)
18 inch wheels	front	29 psi (2.0 bar)
	rear	36 psi (2.5 bar)
19 inch wheels	front	32 psi (2.2 bar)
	rear	36 psi (2.5 bar)

- These tire pressures apply only to the tire makes and types approved by Porsche. Please observe the chapter “WHEEL BOLTS” on Page 241.
- Please observe the chapter “TPC TIRE PRESSURE MONITORING” on Page 103.

Driving Performance*

Boxster	Manual transmission	Tiptronic S
Maximum speed		
5-speed transmission	159 mph/256 km/h	155 mph/250 km/h
6-speed transmission	160 mph/258 km/h	
Acceleration 0 – 60 mph	5.9 seconds	6.8 seconds
Acceleration 0 – 100 km/h (62 mph)	6.2 seconds	7.1 seconds

Boxster S	Manual transmission	Tiptronic S
Maximum speed	167 mph/268 km/h	162 mph/260 km/h
Acceleration 0 – 60 mph	5.2 seconds	6.0 seconds
Acceleration 0 – 100 km/h (62 mph)	5.5 seconds	6.3 seconds

* At DIN empty weight and half load, without performance-inhibiting extra equipment.

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. 1.98 U.S.gallons/7.5liters Oil change quantity with oil filter approx. 2.05 U.S.gallons/7.75 liters Please observe the chapter “ENGINE OIL RECOMMENDATION” on Page 190.
Coolant	**Boxster** Manual transmission: approx. 5.81 U.S. gallons/22 liters Tiptronic S: approx. 6.34 U.S. gallons/24 liters **Boxster S** Manual transmission: approx. 5.89 U.S. gallons/22.3 liters Tiptronic S: approx. 6.42 U.S. gallons/24.3 liters
Manual transmission and differential	**5-speed:** approx. 2.4 quarts/2.25 liters, **6-speed:** approx. 3 quarts/2.8 liters
Tiptronic S	approx. 2.51 U.S. gallons/9.5 liters
Differential with Tiptronic S	approx. 0.21 U.S. gallons/0.8 liters
Power steering	approx. 1.1 quarts/1 liter hydraulic fluid Pentosin CHF 11 S®
Brake fluid	approx. 0.4 quarts/0.39 liters; use only Original Porsche brake fluid
Windshield washer	approx. 0.66 U.S. gallons/2.5 liters without headlight washer approx. 1.59 U.S. gallons/6 liters with headlight washer
Fuel tank	Refill volume approx. 16.9 U.S. gallons/64 liters, including approx. 2.6 U.S.gallons/10 liters reserve.
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.

Weights

Boxster	Manual transmission	Tiptronic S
Empty weight (depending on equipment)	2855 lbs. to 3109 lbs. 1295 kg to 1410 kg	2987 lbs. to 3208 lbs. 1355 kg to 1455 kg
Maximum gross weight	3549 lbs./1610 kg	3649 lbs./1655 kg
Maximum axle load, front*	1709 lbs./775 kg	1709 lbs./775 kg
Maximum axle load, rear*	2017 lbs./915 kg	2017 lbs./915 kg

Boxster S	Manual transmission	Tiptronic S
Empty weight (depending on equipment)	2965 lbs. to 3153 lbs. 1345 kg to 1430 kg	3053 lbs. to 3241 lbs. 1385 kg to 1470 kg
Maximum gross weight	3594 lbs./1630 kg	3682 lbs./1670 kg
Maximum axle load, front*	1709 lbs./775 kg	1709 lbs./775 kg
Maximum axle load, rear*	2072 lbs./940 kg	2072 lbs./940 kg

*The maximum gross weight must not be exceeded.
Note: If additional accessories are installed, the useful load will be correspondingly less.

Dimensions

		PASM
Length	170.4 in./4329 mm	
Width	70.9 in./1801 mm	
Height	51.0 in./1295 mm	50.6 in./1285 mm
Wheelbase	95.1 in./2415 mm	
Ground clearance	4.0 in./101 mm	3.7 in./95 mm
Turning circle	36.4 ft./11.1 m	

Diagrams

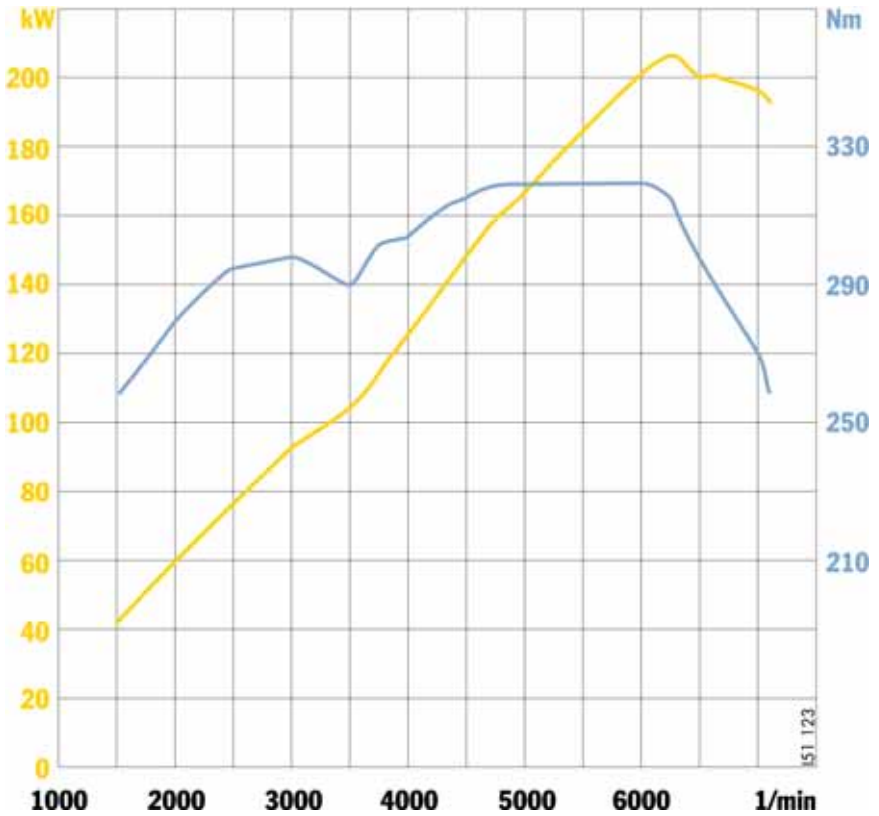
Acceleration diagram

Values have been determined at DIN empty weight and with a 50 % load without additional equipment.

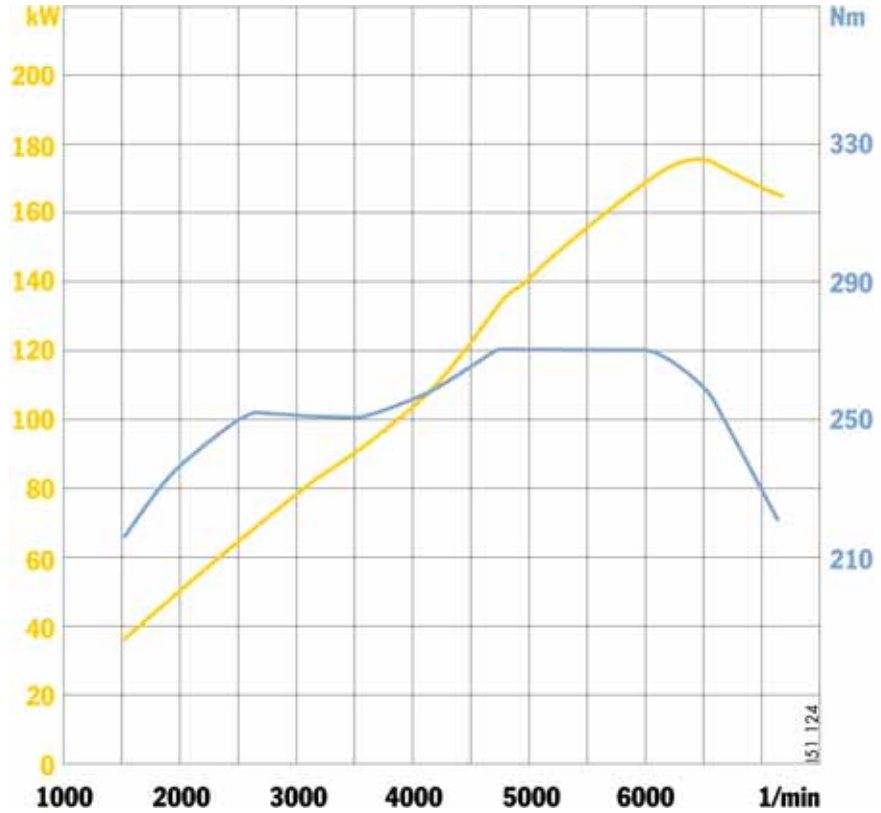
Transmission diagram

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.

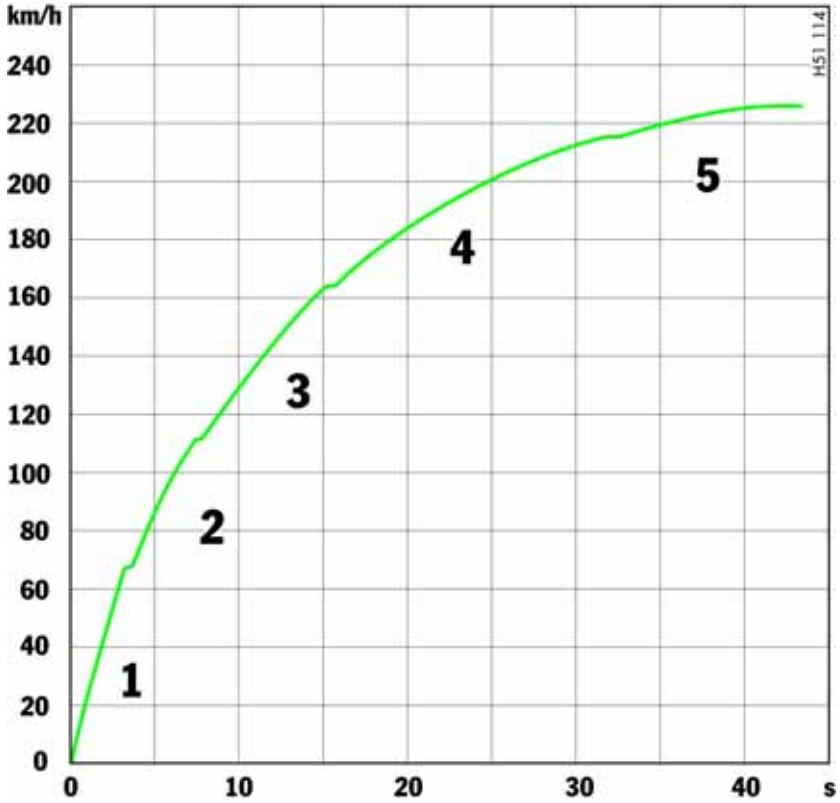
Boxster S: Engine diagram at full power



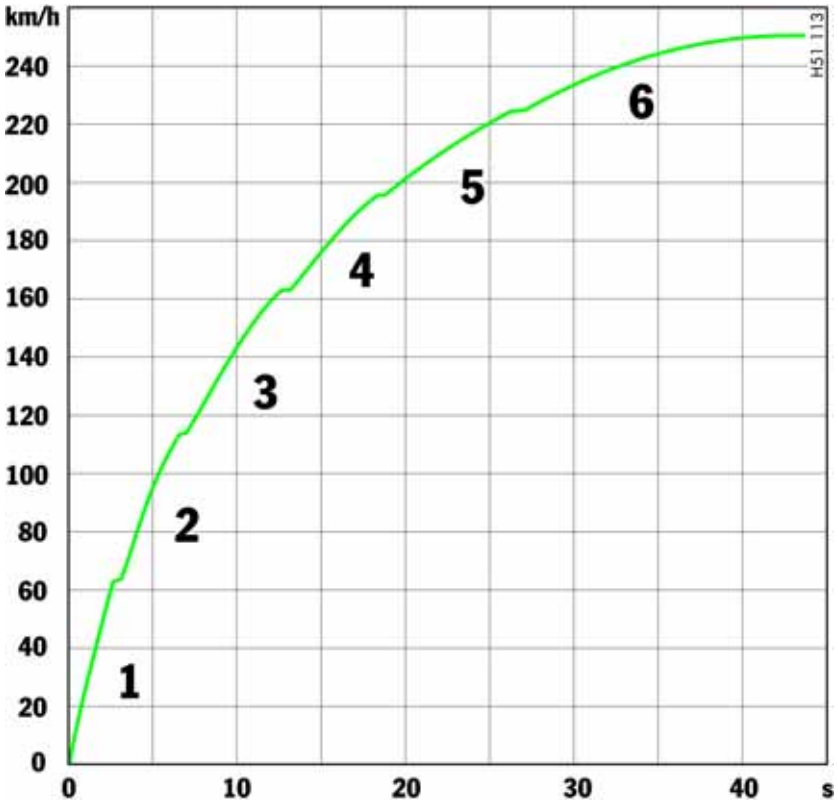
Boxster: Engine diagram at full power



Boxster: Acceleration diagram Manual transmission



Boxster S: Acceleration diagram Manual transmission



Index

A

ABS (antilock brake system) 61
Advanced Airbag 46
Air conditioning 130, 133
Air distribution 130, 133
Air filter 208
Airbag 44
  Function 46
  Warning light 49
Air-conditioning compressor 132, 135
Alarm system 157
Alcantara 217
Antenna 157, 212
Antilock brake system 61
  Warning light 62
Ashtray 138
Assembly aids for wheel changes 242
Assistant 70
Audio operation 155
Auto-button air conditioning 133
Automatic
  Anti-glare mirrors 30
  Car washes 210
  Door locking 24
  Headlight beam adjustment 125
  Speed control 82
Automatic air conditioning system 133
Average consumption 93, 114
Average speed 93, 114

B

Backrest
  Adjustment 34
  Release 34
Battery 249
  Care 250
  Charge state 250
  Putting vehicle into operation 252
  Remote control 255
  Removing 253
  Warning light 90
  Winter driving 251
Before driving off 12, 13
Blower adjustment 130, 133
Brake light 269, 270
Brakes
  Brake pad warning light 91
  Fluid 192, 286
  Fluid warning light 109, 192
  Pads 14, 60
  Test stand 66
Break in hints 14
Bulbs
  Chart 259
  Replacing 259

C

Cabriolet 170
Canholder 144
Capacities, overview 286
Car care 184
Car telephone 157
Car washes 210
Catalytic converters 201
Cautions 184, 220
Central locking 19, 21
  Emergency operation 19, 22
Central vents 136
Central warning light 91
Changing wheels 242
Check engine
  Warning light 90
Checking pressure 241
Child restraint systems 51
Chime 124
CHRONO stopwatch 98
Circulating-air button 130, 133
Clock 89, 114
Clutch 162
Clutch pedal 56
Combination filter 208
Comfort seat 34
Coming Home mode 124
Compact disc
  holder 143
  Player 156
  Storage 152
Convertible top 170
  Care 211
Coolant 86, 186, 286
  Level 186
  Temperature gauge 86

Warning light 86
Cooling system 86, 186
Cruise control 82
Cupholder 144

D

Dashboard 72
Data bank 278
Defrosting windows 130, 133
Diagnostic socket 15, 247
Diagrams 288
Dimensions 287
Dipped beam 261
Door 25
Guard lights 271
Handles 25
Locks 25, 212
Mirror heating 33
Windows 25, 28, 170, 214
Driving hints 12
Driving in winter 168
Driving performance 285
Drop-center rim 234
DVD Navigation 152

E

Electrical system 246
Emergency flasher 137
Emergency operation
Central locking 19, 22
Convertible top 173
Lids 248
Tank cap 197
Emergency program, Tiptronic 168
Emergency service 220
Emergency starting with jump leads 256
Emergency operation 22
Emission control system 7, 90, 200, 201
Engine
Checking the oil level 111
Exhaust 8
Number 279
Oil consumption 14
Oil level indicator 111
Oils 286
Speeds 14
Starting 74
Switching off 74
Engine compartment
Blower 77, 86
Lid 151, 203
Lid warning light 150
Environment 6

F

Fire extinguisher 147
Flat tire 238
Floor mats 217
Fog lights 124, 266, 269
Footwell light 270
Front lid 151
Fuel 4, 88, 196
Containers 8
Economy 194
Evaporation 202
Level gauge 88
Level warning light 88
Portable Containers 199
Recommendation 198, 199
Tank 196, 197
Function keys 40
Fuses 247

G

Garage door opener 158
Garage lift 237
Gearchanging 161
Glove compartment 143
Gong 75, 76, 94, 123, 124
Ground clearance 8

H

Handbrake 57
Hardtop 178
Headlights 125, 261
Adjusting 272, 273
Cleaning system 126, 202, 286
Heated rear window 33, 181, 182
Heating 130, 133
High beam
Indicator light 85
Lever 124, 125
Home mode 124
HomeLink 158
Hoods 148, 151
Horn 15, 21

I

Identifikation number ... 278
Ignition lock ... 74, 76, 77, 163
Immobilizer ... 17
Instrument
- Illumination ... 82
- Lights ... 124
- Panel ... 79

Interior lights ... 271
Interior mirror ... 30

J

Jump lead starting ... 256

K

Keylock ... 163
Keys ... 17
- with remote control ... 18

L

LATCH System ... 55
Leather care ... 216
License plate light ... 124
Lids ... 148, 151
- Emergency unlocking ... 248

Light
- Flasher ... 85, 124, 125
- Low beam ... 124, 125
- Switch ... 125

Light alloy wheels ... 216
- Inscription ... 234

Load switch-off ... 246
Loading information ... 235
Locking ... 20, 23
Luggage
- Net ... 146, 205

Luggage compartment ... 152, 153, 270
- Lid warning light ... 150
- Lids ... 150

M

Maintenance ... 184
Make-up mirror ... 41
Maximum permitted engine speeds ... 14, 162
Mirrors ... 31
- Anti-glare ... 30

Multi-Functional steering wheel
- Function keys ... 40

N

Navigation ... 154
Notes on
- Car care ... 209
- Maintenance ... 184

Number plate light ... 124, 269

O

Octane rating ... 198, 199
Off delay ... 124
Oil ... 286
- Checking level ... 111
- Consumption ... 14
- Level checks ... 189
- Level indicator ... 111

On-board computer ... 8, 92
- Basic settings ... 113
- Language versions ... 113

On-board literature ... 2
Orientation light ... 141
Outside temperatur indicator ... 89

P

Paint
- Care ... 209
- Data ... 279

ParkAssistant ... 70
Parking
- Aids ... 70
- Assistant ... 71
- Brake ... 57
- Light ... 124

Particle filter ... 208
Plastic parts ... 215
Platform lift ... 237
Porsche Active Suspension Management (PASM) ... 67
Porsche Ceramic Composite Brake (PCCB) ... 8
Porsche Communication Management ... 8, 154
Porsche Stability Management (PSM) ... 64
- Information light ... 66

Power measurements ... 184
Power steering fluid level ... 207, 286
Power windows ... 25, 28, 170
Practical tips ... 220

R

Radiator fans ... 187
Radio reception ... 155
Rain sensor ... 126
Range on remaining fuel ... 93, 114
Rear fog light ... 124, 269
Rear lid ... 148
Rear spoiler ... 68, 69
Rear view mirrors ... 31
Rear window defogger ... 33
Rear wing
  Retractable ... 68
Relays ... 246
Release button ... 163
Remote control ... 18
Replacement key ... 17
Replacing bulbs ... 259
Replacing wiper blades ... 185
Retractable spoiler ... 68
Rims
  Diameter ... 234
  Rim width ... 234
Running in ... 14

S

Safety belts ... 42, 217
  Warning light ... 43
Safety compliance sticker ... 278
Sealing set ... 239
Seals, care of ... 215
Seat ... 34
  Adjustment ... 34
  Heating ... 38
  Memory ... 36
Selector lever ... 163
Selector lever position indicator ... 87, 165
Shifting gear ... 162
Shiftlock ... 163
Side lights ... 269
Side marker light ... 124, 268
Side vents ... 136
Snow chains ... 232, 283, 284
Snow tires ... 231, 282
Sockets ... 140
Spacers ... 244
Spare key ... 17
Spare wheel ... 284
Speed code letter ... 233
Speed control ... 82, 129, 130
Speed limit ... 94, 233
Speedometer ... 84
Spoiler ... 68
  Fixed ... 69
  Retractable ... 68
Sport mode ... 63, 66, 67
Sports seat ... 34
Stability management system (PSM) ... 64
Starting ... 74, 75
Starting and stopping the engine ... 74
Steering wheel
  Adjustment ... 39
  Buttons ... 40
  Lock ... 74, 75, 76, 77
  Rocker switches ... 163
  Toggle switches ... 163
Stopwatch ... 98
Storage options ... 142
Storing your Porsche ... 218
Sun visors ... 41

T

Tachometer ... 85
Tail light ... 269
Tank ... 196, 197
  cap ... 197
  Ventilation system ... 202
Telephone ... 157
Temperature setting ... 130, 133
Temperature, outside indicator ... 89
Test stand, measurements ... 66
Theft protection ... 16
Tiptronic ... 163
  Indicator ... 87
Tire pressure monitoring ... 103
Tires ... 14, 221, 282, 283
  Checking pressure ... 241
  Inscription ... 233
  Loading information ... 235
  Pressure ... 5, 224, 283
  Pressure plate ... 279
  Sealant ... 239
  Sidewall ... 233
  Size ... 233
Tires and tire care ... 221
Tools ... 152
Towing ... 274, 275
Track ... 282
Transmission ... 161, 162, 281
  Fluid ... 208, 286
Trunk entrapment ... 148
Turn signals ... 85, 125

U

Undercoating 200, 214, 215

V

Valves 229
Vanity mirror 41
Vehicle
- Care 209
- Data bank 278
- Identifikation number 278
- Laying up the car 251
- Putting into operation 252
- Washing 209

Ventilation 133
Vents 130, 133
Viscosity, engine oil 190

W

Warning messages 116
Washer fluid 202, 286
Washer lever 126
Washing 209
Weights 287
Welcome Home Function 124
Wheel 216, 221, 282, 283
- Bolts 17, 241
- Changing 242
- Checking pressure 5, 241
- Inscription 233
- Loading information 235
- Pressure plate 279
- Sidewall 233
- Size 233
- Tire pressure 5, 224
- Tire sealant 239

Windows 25, 28, 170, 214
- Washer nozzles 126
- Washer system 202, 286

Windshield wipers 126, 185
- Replacing 185

Windstop 177
Winter driving
- Battery 250
- Jump lead starting 256

Winter operation
- Coolant 186
- Seals 215
- Snow chains 232
- Tires 231
- Washer fluid 202
- Wiper blades 185