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Dear Owner,

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

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

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

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

A separate Maintenance Booklet explains how you can keep your Porsche in top driving condition by having it serviced regularly.

A separate Warranty and Customer Information Booklet contains detailed information about the warranties covering your Porsche.

For U.S. only:

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

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

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

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

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

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

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

Regularly check your vehicle for signs of damage.

Damaged or missing aerodynamic components such as spoilers or underside panels affect the driving behavior and therefore must be replaced immediately.

Your car may have all or some of the components described in this manual.

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

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

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

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

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

Important

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

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

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

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

Note to owners

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

Note aux propriétaires

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

Porsche Cars Canada, Ltd.
Automobiles Porsche Canada, LTEE

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

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

Porsche and the Environment

Environmental guidelines

We develop and produce exclusive vehicles with sophisticated 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



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 paint shops.

Water-based paints and new painting methods reduce solvent emissions by 70 per cent. The water used in the paint shop is recirculated. Waste water leaves the Porsche factory only after being appropriately treated.

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

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 240.

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

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

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

- Identification of materials.
- Use of recyclable materials.
- Reusable components designed for simple removal.
- A further increase in the recycling rate which is currently 83 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.

Faults are indicated to the driver by the “Emission control” warning light and by a message on the instrument panel’s multi-purpose display.

- ▷ Please observe the chapter “WARNING LIGHTS AND WARNING MESSAGES” on Page 112.

Setting and operating vehicle components when driving



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 the 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
- ▷ If it is necessary to operate these components while the vehicle is in motion, use the function keys on the multi-functional steering wheel.

Portable Fuel Containers



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



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.

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.

Controls, Safety, Instruments	11 - 190
Shifting Gear, Traction Systems	191 - 224
Maintenance, Car Care	225 - 256
Practical Tips, Minor Repairs	257 - 328
Vehicle Identification, Technical Data	329 - 341
Index	342 - 351

Controls, Safety, Instruments

Porsche and the Environment	4	Instrument Panel Cayenne S		Parking Heater.....	142
Never invite car theft!.....	16	USA Models.....	70	Sun Visors.....	146
Keys.....	17	Instrument Panel Cayenne S		Sun Blinds, Rear Side Windows	147
Central Locking System	21	Canada Models.....	72	Interior Lighting.....	148
Porsche Entry & Drive	24	Instrument Panel Cayenne Turbo		Door-Surrounding Lighting	150
Doors	25	USA Models.....	74	Coming Home Function (Off Delay)	150
Alarm System, Ultrasound Passenger Compartment Monitoring System, Inclination Sensor	26	Instrument Panel Cayenne Turbo		Sliding/Lifting Roof.....	151
Power Windows	28	Canada Models.....	76	Parking Aids	155
Front seats.....	32	Oil Temperature Gauge	78	Garage Door Opener	160
Front seat with memory.....	34	Speedometer	78	Ashtray, Front	162
Easy Entry Function	36	Cooling System	79	Cigarette Lighter.....	162
Rear Seats	37	Fuel	80	Ashtray, rear	163
Heated Seats – Front and Rear	40	Odometer.....	80	Car Audio Operation/Tips	164
Headrests	42	Voltmeter	82	Mobile Phones and 2-Way Radios	167
Safety Belts.....	44	Emission Control.....	83	Porsche Communication Management (PCM).....	168
Child Restraint Anchorages.....	48	Multi-Purpose Display	84	Radio	168
Child Restraint Systems	49	Warning Lights and Warning Messages	112	Fire Extinguisher	168
ISOFIX Child Seat System	50	Light Switch	120	Storage.....	169
Airbag Systems	51	Instrument Illumination.....	122	Cupholder	173
Steering Wheel	53	Automatic Headlight Beam Adjustment	122	Rear Lid	175
Steering Wheel Heating	53	Turn signal/High Beam/		Rear Window	177
Steering Wheel Adjustment	54	Headlight Flasher Stalk	123	Engine Compartment Lid	178
Multi-Functional Steering Wheel	55	Hazard Warning Light Switch	124	Loadspace	179
Interior Mirror	57	Windshield Wiper/Washer Stalk	125	Stowing Load	180
Door Mirrors.....	57	Cruise Control	127	Luggage Compartment Cover	181
Automatic Anti-Dazzle Mirror	59	Vents	131	Luggage Safety Net	183
Ignition Lock/Steering Lock.....	60	Fresh-air intake	131	Ski Bag	185
Starting and Stopping the Engine	62	Heated Rear Window	132	Roof Transport System.....	187
Parking Brake.....	64	Automatically Controlled		Trailer Coupling	188
Brakes.....	65	Two-Zone Air Conditioning	133		
		Automatically Controlled			
		Four-Zone Air Conditioning	137		

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 engine compartment lid and windshield are free of snow and ice, so the heater and the windshield wipers work properly.
- ▷ If a child will be riding in the vehicle, check child seat/child seat restraint system to ensure that restraints are properly adjusted.
 - ▷ Check all exterior and interior lights for operation and that the lenses are clean.
 - ▷ Check the headlights for proper aim, and if necessary, have them adjusted.
 - ▷ Check under the vehicle for leaks.
 - ▷ Be sure all luggage is stowed securely.

Emergency equipment

It is good practice to carry emergency equipment in your vehicle.

Some of the items you should have are: window scraper, snow brush, container or bag of sand or salt, emergency light, small shovel, first-aid kit, etc.

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 6.

- ▷ When parked, always set the parking brake. Move the Tiptronic selector lever to "P". 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.

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 or other controls during the break-in period which will gradually disappear.

Break in brake pads

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.

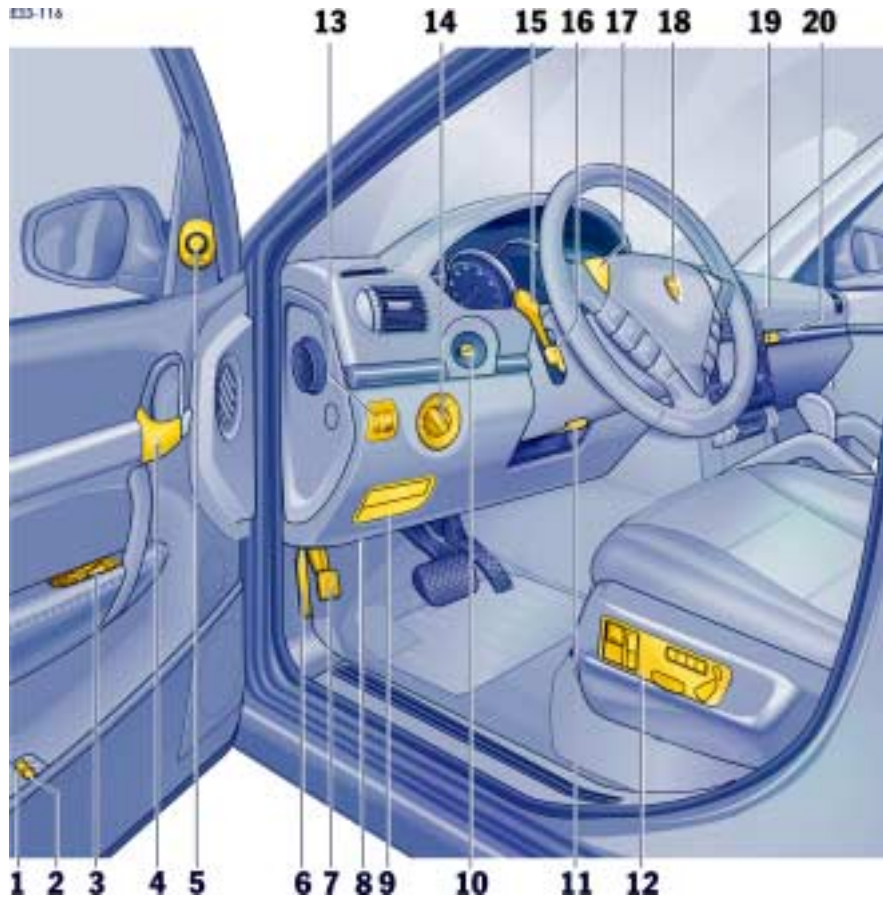
Engine oil consumption

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

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

- ▷ Make a habit of checking engine oil with every fuel filling, add if necessary.
- ▷ Please observe the chapter “ENGINE DATA” on Page 332.

833-116



- 1 Filler flap release
- 2 Rear lid release
- 3 Power windows
- 4 Inner door handle
- 5 Door mirror adjustment
- 6 Engine compartment lid release
- 7 Parking brake
- 8 Diagnostic socket
- 9 Parking brake release
- 10 Ignition lock/steering lock
- 11 Steering wheel adjustment
- 12 Seat adjustment
- 13 Instrument lighting knob
- 14 Light switch
- 15 Turn signal/high, dipped beam/headlight flasher stalk
- 16 Operating lever for cruise control
- 17 Rocker switches for Tiptronic
- 18 Horn
- 19 Hazard warning light switch
- 20 Glove compartment

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 sliding/lifting roof.
- ▷ Remove ignition key (switch ignition off in vehicles that have Porsche Entry & Drive).
- ▷ Engage steering lock.
- ▷ Lock storage tray between the front seats and glove compartment.
- ▷ Remove valuables (e.g. car documents, radio control module, telephone, house keys) from the car.
- ▷ Lock doors.
- ▷ Lock the glove compartment.
- ▷ Close oddment trays.
- ▷ Cover luggage compartment with the luggage compartment cover.
- ▷ Close rear lid and rear window.



A - Main key
 B - Release button for key bit
 C - Spare key

Keys

Two main keys with integrated remote control and one spare key are supplied with your Porsche. The main keys are designed as folding keys.

These keys operate all the locks on your vehicle.

- ▷ Be careful with your car keys: do not part with them except under exceptional circumstances.

831-243

- ▷ Inform your insurance company of any loss or theft of car keys or if extra or replacement keys have been made.
- ▷ Remove the ignition key, even if leaving the vehicle only briefly.

Folding out the key bit

- ▷ Press release button **B**.
The key bit folds out.

Folding in the key bit

- ▷ Press release button **B** and fold in the key bit.

Replacement keys

Car keys can only be ordered through an authorized Porsche dealer. Sometimes, this may take a long time.

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 vehicle control module by your authorized Porsche dealer. All keys belonging to the vehicle must also be reported again.

Note

Third parties can continue to operate the mechanical locks using the lost key.

831-316



Panic button

In dangerous situations or when one's own safety is threatened, it is possible to draw attention to the situation by triggering an alarm.

To trigger an alarm

- ▷ Press button.
The horn sounds and the hazard warning lights flash.

To stop the alarm

- ▷ Press button again.
The horn becomes silent and the hazard warning lights go out.



Emergency operation – pulling out the ignition key

If the vehicle battery is dead, the key can only be pulled out of the ignition lock if the emergency operation is performed.

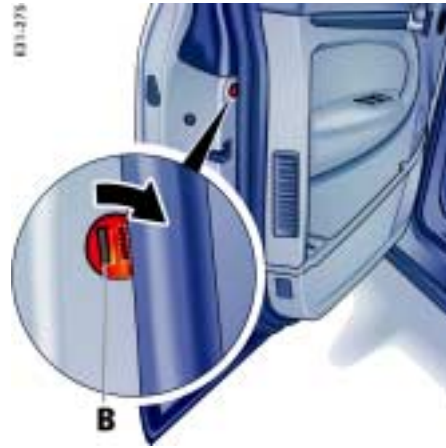
1. Remove the cover (arrow) using the screwdriver from the tool kit.
2. Using a pointed object, e.g. a ball-point pen, press into opening **A** beside the ignition lock.
3. Turn ignition key in the direction indicated by the **arrow** and pull out the key.



Emergency operation – locking the doors

If the central locking system fails, the doors can only be locked if the emergency operation is performed.

1. Open the driver's door.
2. Remove cover **A**.



3. Using the key bit, press red slide control **B** in the direction indicated by the arrow.
4. Fit cover **A** again.
5. Repeat procedure on the passenger's **and** the rear doors.
6. Close all doors.
7. Lock the driver's door with the key at the door lock.

Immobilizer

There is a transponder (an electronic component), containing a stored code, in each key.

Before the ignition is switched on, the ignition lock checks the code.

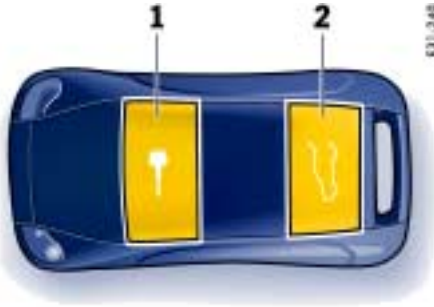
The immobilizer can be deactivated and the engine started only using an authorized ignition key.

Switching off the immobiliser

- ▷ Insert the ignition key into the ignition lock.

Switching on the immobiliser

Withdraw the ignition key.



Unlocking rear lid, rear window and spare wheel bracket

- ▷ Briefly press button **2**.
Hazard warning light flashes once.
The rear lid, rear window and spare wheel bracket can be opened with the appropriate unlocking button.
The rear window and spare wheel bracket are always unlocked if the rear lid is unlocked.
- ▷ Please observe the chapter "REAR LID" on Page 175.
- ▷ Please observe the chapter "SPARE WHEEL" on Page 282.

If the rear window is not opened, both the rear lid and rear window will lock automatically after 30 seconds.

Note on operation

You can select the various options for unlocking the doors, rear lid and rear window on the multi-purpose display in the instrument panel.

- ▷ Please observe the chapter "COMFORT" on Page 107.

Opening the rear window

- ▷ Press button **2** for approx. two seconds.
The rear window pops open.

Unlocking vehicle doors

- ▷ Briefly press button **1** on the remote control.

Locking vehicle doors

- ▷ Briefly press button **1** on the remote control.

Central Locking System

USA: KR5KESSY

Canada: CAN 267 104 139

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

Operation of this device is subject to the following two conditions:

- It may not cause harmful interference, and
- it must accept any interference received including interference that may cause undesired operation.

Note

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

- ▷ Please observe the chapter "POWER WINDOWS" on Page 28.
- ▷ Please observe the chapter "SLIDING/LIFTING ROOF" on Page 151.

The vehicle doors can be centrally unlocked or locked with the remote control.

If you unlock the vehicle with the key at the door lock, only the driver's door is opened. In order to prevent the alarm system from being triggered, you must switch the ignition on within 15 seconds of opening the door.

All doors are locked or unlocked if central locking button **A** is activated in the relevant armrest.

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

Unlocking vehicle doors

- ▷ Briefly press button **1** on the remote control.

Switching off the alarm system if it is triggered accidentally

- ▷ Unlock vehicle doors **or**
- ▷ Switch ignition on.

Locking vehicle doors

- ▷ Briefly press button **1** on the remote control.

Automatic relocking

If the vehicle is unlocked and none of the vehicle doors is opened within approximately 30 seconds, automatic relocking takes place.

Note on operation

If the passenger compartment monitoring system and the inclination sensor have been deactivated (theft protection is limited), the doors can be opened after automatic relocking by pulling the inner door handle twice.

When unlocked or locked again, the passenger compartment monitoring system and inclination sensor are activated once more.

- ▷ Please observe the chapter "ALARM SYSTEM, ULTRASOUND PASSENGER COMPARTMENT MONITORING SYSTEM, INCLINATION SENSOR" on Page 26.
- ▷ Please observe the chapter "ALARM" on Page 107.

Indication by the hazard warning lights

If the vehicle doors are unlocked or locked, a response is provided by the hazard warning lights:

- Unlocking – single flash
- Locking – double flash
- ▷ Please observe the chapter "SIGNAL" on Page 109.

Locking conditions

- ▷ Lock vehicle **once**.
The doors cannot be opened from the outside.
The alarm system, passenger compartment monitoring system and inclination sensor are switched on.

If a person or animal remains in the vehicle:

- ▷ Quickly lock vehicle **twice**.
The doors cannot be opened from the outside.
The passenger compartment monitoring system and inclination sensor are switched off.
The doors are locked but can be opened from the inside.

Unlocking the door with the inner door handle

- ▷ Pull inner door handle once.
Door lock is unlocked.
- ▷ Pull inner door handle again.
Door can be opened.

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

Central locking button

Central locking buttons **A** in the armrests let you lock and unlock the vehicle electrically.

Locking

- ▷ Press the rocker-switch symbol.
All vehicle doors will be locked.
The doors can be opened by pulling the inner door handle twice.

Unlocking

- ▷ Press the rocker-switch symbol.
If activated on the rear doors, **only** the relevant door will be unlocked.

Note on operation

If the vehicle was locked with the key or by remote control, it cannot be unlocked with the central locking button.



Switching off the central locking buttons and power windows on the rear doors

The central locking buttons and the power windows for the rear doors can be disabled using safety button **B** in the armrest of the driver's door.

- ▷ Press safety button **B**.
The central locking buttons and power windows on the rear doors are disabled.
- ▷ Press safety button **B** again.
The central locking buttons and power windows are operational.

Emergency operation

- ▷ Lock the vehicle with the key at the door lock.

If there is a defect in the central locking system, operating the lock barrel in the driver's door will lock all functioning elements of the central locking system.

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

Note on operation

The alarm system, passenger compartment monitoring system and inclination sensor are switched on.

In order to prevent the alarm system from being triggered, you must switch the ignition on within 15 seconds of opening the door.

Switching off the alarm system if it is triggered accidentally

- ▷ Unlock vehicle doors **or**
- ▷ Switch ignition on.

Automatic door locking



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.
-

You can select various options for automatically locking the doors on the multi-purpose display in the instrument panel.

- ▷ Please observe the chapter "DOOR OPENING" on Page 108.

Option 1

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

Option 2

The doors do not lock automatically.

Note on operation

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



Porsche Entry & Drive

Porsche Entry & Drive facilitates keyless unlocking and locking of vehicle doors, rear lid and rear window. To use this facility, you need to have only the vehicle key with remote control with you.

- ▷ Do not expose the vehicle key to a high level of electromagnetic radiation, as this could adversely affect Porsche Entry & Drive.

Unlocking vehicle doors

- ▷ Grip door handle fully.
The vehicle doors will be unlocked.

Unlocking rear lid, rear window and spare wheel bracket

- ▷ If you are at the rear section of the vehicle with the vehicle key, the rear lid, rear window and spare wheel bracket are unlocked and can be opened.

Locking rear lid, rear window and spare wheel bracket

- ▷ Close rear lid, rear window and spare wheel bracket.
If the vehicle key with remote control is out of range, rear lid, rear window and spare wheel bracket are locked.

Locking vehicle doors

- ▷ Press button **A** in the door handle.
The vehicle doors are locked.
If the vehicle key with remote control is out of range, the vehicle doors are locked.
- ▷ Please observe the chapter "LOCKING CONDITIONS" on Page 22.

Immobilizer

Switching off the immobilizer

- ▷ Switch ignition on.

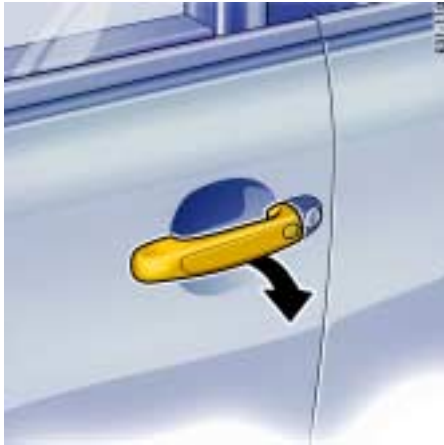
Switching on the immobilizer

- ▷ Switch ignition off.

Switching off readiness for operation

If the vehicle is not unlocked within **3 days** the Porsche Entry & Drive readiness for operation is switched off.

- ▷ Pull the door handle **once**, to reactivate the system.
- ▷ Pull the door handle **again**, to open the door.



Doors

Opening unlocked doors from outside

- ▷ Pull door handle.



Opening unlocked doors from inside

- ▷ Pull door handle.

Opening locked doors from inside

- ▷ Pull door handle twice.
Please observe the chapter "LOCKING CONDITIONS" on Page 22.



Childproof rear door locks

Childproof locks are fitted to the rear doors. The doors cannot be opened from inside once these locks are engaged.

Locking (Active)

- ▷ Turn safety catch to position **A**.

Unlocking (Inactive)

- ▷ Turn safety catch to position **B**.



A - Light-emitting diode for alarm system

Alarm System, Ultrasound Passenger Compartment Monitoring System, Inclination Sensor

- ▷ Please observe the chapter "ALARM" on Page 107.

Avoiding false alarms

- ▷ Always close the sliding/lifting roof and all door windows.
- ▷ Do not leave a mobile phone switched on in the glasses case of the roof console.

- ▷ Always turn off the alarm system before you attach a trailer. The inclination sensor could trigger the alarm unintentionally.

Switching on

- ▷ Lock the vehicle.
The alarm system, passenger compartment monitoring system and inclination sensor are switched on.
- ▷ Please observe the chapter "CENTRAL LOCKING SYSTEM" on Page 21.

Switching off

- ▷ Unlock the vehicle.
The alarm system, passenger compartment monitoring system and inclination sensor are switched off automatically.

Switching off the alarm system if it is triggered accidentally

- ▷ Unlock vehicle doors **or**
- ▷ Switch ignition on.

Note on operation

If you unlock the vehicle with the key at the door lock, you must switch the ignition on (ignition lock position **1**) within 15 seconds of opening the door in order to prevent the alarm system from being triggered.

Function indication

The locking condition of the vehicle is indicated by a rapid flashing of the light-emitting diode **A** on the driver's door.

The light-emitting diode goes out when the vehicle is unlocked.

Vehicle is locked, passenger compartment monitoring system and inclination sensor are switched on

- ▷ The light-emitting diode flashes for 2 seconds, rapidly, then slowly.

Vehicle is locked, passenger compartment monitoring system and inclination sensor are switched off

- ▷ The light-emitting diode flashes rapidly for 2 seconds, goes out for 28 seconds and then flashes slowly.

Fault indication

- ▷ The light-emitting diode flashes rapidly for 2 seconds, shines for 28 seconds and then flashes slowly.

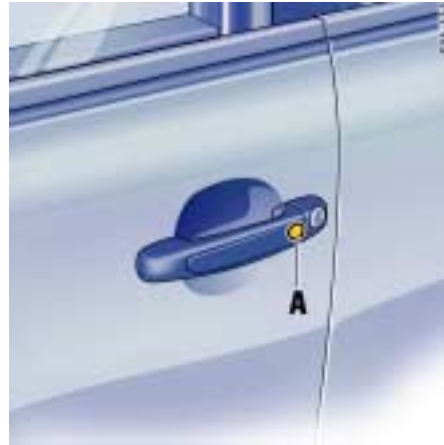
The following alarm contacts are monitored

- Doors
- Engine compartment lid
- Rear lid
- Rear window
- Passenger compartment
- Vehicle inclination

If one of these alarm contacts is interrupted, the alarm horn sounds for approx. 30 seconds and the hazard warning lights flash. After 10 seconds of interruption the alarm is triggered again. This cycle is repeated ten times.

Temporarily deactivating ultrasound passenger compartment monitoring system and inclination sensor

If people or animals are remaining in the locked vehicle or the vehicle is being transported on a passenger train or ship, for example, the passenger compartment monitoring system and inclination sensor must be deactivated.



Deactivating

- ▷ Lock the vehicle quickly twice with the remote control **or**
- ▷ In vehicles with Porsche Entry & Drive, operate button **A** in the door handle quickly twice.

The doors are locked but can be opened from the inside:

1. Pull inner door handle once.
Door lock is unlocked.
2. Pull inner door handle again.
Door can be opened.

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

Switching on

- ▷ Unlock the vehicle and lock it again.

Note on operation

You can deactivate the passenger compartment monitoring system and inclination sensor separately on the multi-purpose display in the instrument panel.

- ▷ Please observe the chapter "COMFORT" on Page 107.

Power Windows



Warning!

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 or switch ignition off in vehicles that have Porsche Entry & Drive to shut off power to the window switches when the vehicle is not attended by a responsible person. Uninformed persons could injure themselves by operating the power windows.
- ▷ Do not leave children in the car unattended.

Risk of an accident.

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

Readiness for operation of power windows

- With ignition switched on **or**
- A maximum of 10 minutes with door closed and ignition key withdrawn, but only until driver's or passenger door is first opened. The one-touch operation for closing the door windows is available only when the ignition is switched on.



- A** - Power window in driver's door
- B** - Power window in passenger's door
- C** - Safety button
- D** - Left rear power window
- E** - Right rear power window

Opening/closing windows

Opening window with the rocker switch

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

Closing window with the rocker switch

- ▷ Pull rocker switch until the window has reached the desired position.



Power windows in passenger's door and rear doors

Note on operation

Rocker switches **A** and **B** in the driver's door have a two-stage function:

- If the switch in question is pressed or pulled to the first level, the front window is opened or closed manually.
- If the switch is completely pressed or pulled to the second level, the front window is opened or closed automatically (one-touch operation).

One-touch operation for front windows

- ▷ Pull or press rocker switch to its final position in the driver's door.
Window moves to its final position.
Press or pull again to stop the window in the desired position.

Comfort function when unlocking the vehicle

- ▷ Hold the car key in the door lock in the unlocking position until the windows have reached the desired position.

If you unlock the vehicle with the key at the door lock, only the driver's door is opened. In order to prevent the alarm system from being triggered, you must switch the ignition on (ignition lock position **1**) within 15 seconds of opening the door.

Comfort function when locking the vehicle



Warning!

Danger of injury. The window will close with its full closing force.

- ▷ Take care to ensure that nobody can be injured when the windows close.
-
- ▷ Hold the car key in the door lock in the locking position until the windows and the sliding/lifting roof have reached the desired position.

Note on operation

The comfort function remains available for approx. 45 seconds after the vehicle has been locked.



Switching off the power windows and central locking buttons on the rear doors

The power windows and the central locking buttons for the rear doors can be disabled using safety button **C** in the armrest of the driver's door.

- ▷ Press the safety button.
The power windows and central locking buttons on the rear doors are disabled.
The symbol in the switch lights up.
- ▷ Press the safety button again.
The power windows and central locking buttons on the rear doors are operational.

Note on operation

If a door window is blocked during closing, it will stop and open again by several inches. However, this is not the case if:

- The rocker switch is pressed again within 10 seconds of the window being blocked and
- The windows are closed using the vehicle key in the door lock (comfort function).

The windows close with their full closing force.



Warning!

Danger of injury. If the rocker switch is pressed again within 10 seconds of the window being blocked, the window will close with its full closing force.

- ▷ Take care to ensure that nobody can be injured when the windows close.

One-touch operation is disabled for 10 seconds after blockage of the door window.

Storing final position of the door windows

The end positions of the door windows are lost when the battery is disconnected and reconnected. The one-touch operation of the windows is disabled.

Perform these procedures for all windows:

1. Close window completely **once** by pulling rocker switch.
2. Pull rocker switch **again**.
The upper end position of the window is stored.
3. Open window completely **once** by pressing rocker switch.
4. Press rocker switch **again**.
The lower end position of the window is stored.

Front seats



Danger!

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.

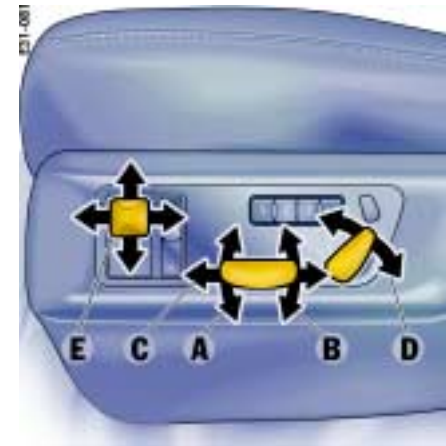
Safety belts only offer protection when the backrest is upright and the belts are properly positioned on the body. Improperly positioned safety belts can cause serious personal injury or death in an accident.

- Do not operate the car with the driver or passenger backrests excessively reclined.

Seat position

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

- Adjust the seat height to give yourself enough headroom and a good overview of the vehicle.
- Adjust the seat until, with the accelerator pedal fully depressed, your leg is straight but your entire foot still rests on the accelerator pedal.
- Grip the top half of the steering wheel. Set the backrest angle and steering wheel position so that your arms are almost outstretched. However, your shoulders must still rest on the backrest.
- If necessary, correct the seat fore-and-aft adjustment.
- Adjust the height of the headrest so that the upper edge is at eye level or higher.



Adjusting the seat

- A Front seat height adjustment.
 - B Rear seat height adjustment.
 - C Fore and aft adjustment.
 - D Backrest angle adjustment.
 - E Lumbar support adjustment.
To permit a relaxed sitting posture, the backrest curvature is infinitely adjustable in vertical and horizontal directions for individual pelvis and spinal column support.
- Press the switch in the direction indicated by the **arrows** until the desired setting is reached.



Raising

- ▷ Pull headrest upwards until the desired position is reached.

Lowering

- ▷ Press button **A** and, at the same time, push the headrest downwards until the desired position is reached.

Adjusting the headrest

The height of the headrest can be adjusted.



Improperly positioned headrests can cause serious personal injury or death in an accident.

- ▷ Adjust the headrest so that the upper edge of the headrest is at least at eye level or higher.
- ▷ Do not drive the vehicle without the headrest in place and properly adjusted.



Front seat with memory

Personal seat, door mirror, steering wheel and safety belt height adjustments can be stored and recalled on the person buttons and vehicle keys.

- ▷ Please observe the chapter "EASY ENTRY FUNCTION" on Page 36.

! Warning!

Risk of crushing due to uncontrolled recall of settings.

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

Memory options

- Seat adjustment
- Door mirror adjustment

Comfort memory options

- Seat adjustment
- Door mirror adjustment
- Steering wheel and safety belt height adjustment

Recalling the settings using the vehicle key or in vehicles that have Porsche Entry & Drive

- ▷ Open the driver's door.
The stored settings are recalled automatically.

Cancelling setting

Automatic settings can be cancelled immediately by pressing any driver's seat setting button.

Recalling the settings with person buttons 1 - 3 (driver's and passenger's seat)

1. Unlock vehicle and open the driver's door.
2. Press the relevant person button until the stored positions have been reached
or
Briefly touch the person button if the ignition key is inserted or if the ignition is switched on (in vehicles that have Porsche Entry & Drive).
The stored positions are recalled automatically.

Cancelling setting

Automatic settings can be cancelled immediately by pressing any seat adjustment button.

Storing driver's seat settings

Storing settings on a person button and a vehicle key

1. Switch ignition on.
2. Close doors.
3. Make the required adjustments to the seat, mirror, steering wheel and safety belt.
4. Briefly press the **SET** memory button and, within 10 seconds, hold down one of the person buttons (**1**, **2** or **3**) until an acknowledge tone is obtained.
The settings are now stored on the desired person button.
5. Withdraw vehicle key or switch ignition off in vehicles that have Porsche Entry & Drive.
6. Press the **SET** memory button within 10 seconds and keep the button depressed until an acknowledge tone is obtained.
The settings are now assigned to the vehicle key.



A - Mirror adjustment

Storing passenger mirror setting as a parking aid

If the passenger's mirror is supposed to swivel downwards when reversing, this can also be stored in the driver's seat setting.

1. Operate the parking brake so that the vehicle cannot roll away when reverse gear is engaged.
2. Switch ignition on.
3. Press the relevant person button.
4. Engage reverse gear.

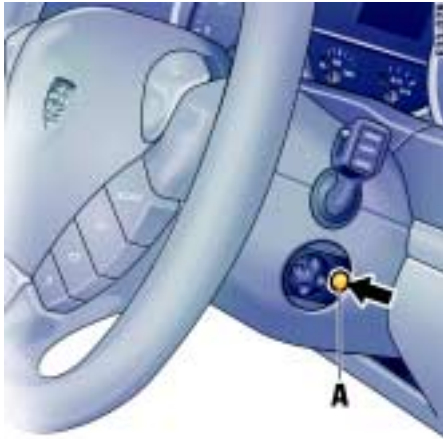
5. Set the control switch **A** for the mirror setting to the passenger's side.
The passenger's mirror swivels downwards.
6. Adjust the passenger's mirror to the required setting.
7. Briefly press the **SET** memory button and, within 10 seconds, hold down the person button on which the setting is to be stored until an acknowledge tone is obtained.

Storing passenger seat settings

1. Switch ignition on.
2. Adjust seat position and belt height.
3. Briefly press the **SET** memory button and, within 10 seconds, hold down one of the person buttons (**1**, **2** or **3**) until an acknowledge tone is obtained.

Automatic storage – driver's seat

If settings were changed after the driver's door was opened, these new settings are automatically stored when the vehicle is locked. This storage is deleted if the vehicle is unlocked with a programmed key and the driver's door is opened.



Easy Entry Function

The Easy Entry function makes it easier for you to get in and out of the car.

Warning!

Risk of crushing if persons are behind the driver's seat when settings are recalled.

- ▷ Risk of damage if the rear seat bench is folded forward when settings are recalled.
- ▷ Switch off the Easy Entry function if there are persons behind the driver's seat or if the rear seat bench is folded forward.

Switching Easy Entry function on and off

- ▷ Press switch **A**.

Entering the vehicle

When the driver's door is opened, the driver's seat moves to the rear and into the lowest position. Once the driver's door is closed and the ignition key is inserted or, in the case of vehicles that have Porsche Entry & Drive, the ignition is switched on, the seat and steering wheel move into the stored position.

Exiting the vehicle

The steering wheel moves into the frontmost, top position.

- After the ignition key is removed **or**
- After the ignition is switched off and the driver's door is opened on vehicles equipped with Porsche Entry & Drive **or**
- When the steering column is locked.

When the driver's door is opened, the seat moves to the rear and into the lowest position.

Rear Seats

The rear seats are divided and can be folded forward individually to make the loadspace bigger.



Caution!

Risk of damage to seat cushions and backrest if both are not folded forward.

- ▷ Always fold seat cushions and backrest forward.



Folding rear seats forward

If the luggage safety net is installed, first set up the left seat cushion in a vertical position and fold the left rear seat backrest forward.

1. Remove the headrests of the backrest to be folded forward.
Please observe the chapter "HEADRESTS" on Page 42.
2. Move front seats forward.
3. Pull seat cushion up at loop **A**.
4. Pull seat cushion forward (arrow **B**).

5. Raise seat cushion vertically.





6. Pull release lever **A** and fold the backrest forward.



7. Insert headrest **B** into the receiver in the seat cushion in the same way as with an upright backrest.



Positioning rear seats

1. Remove the headrests from the seat cushion.
2. Make sure that the safety belts are not trapped.
Raise the backrest until it locks with an audible click.
The red “verification flag” **A** must be lowered completely.



3. Fold seat cushion forward.
4. Push seat cushion under the backrest.
5. Press seat cushion downward at the front.
Make sure that the buckles are accessible.
6. Insert the headrests into the backrest.
Please observe the chapter "HEADRESTS" on
Page 42.



A - Front seat, left
B - Front seat, right



C - Rear seat, left
D - Rear seat, right

Heated Seats – Front and Rear

The seat heating is ready for operation when the ignition is on. The heating power can be infinitely adjusted with the thumb wheel.

Switching on

- ▷ Turn thumb wheel until the desired position is reached.

Switching off

- ▷ Turn thumb wheel to **0**.



- A - Switches seat heating on
- B - Switches seat heating off
- C - Temperature control for left seat
- D - Temperature control for right seat

Rear seat heating in vehicles with an air conditioning system

After the seat heating is switched on, the air conditioning display switches to seat heating mode for approx. 10 seconds.

Switching on

- ▷ Press button **A**.

Controlling the temperature

- ▷ Move button **C** or button **D** upwards or downwards until the desired position is reached.

Switching off

- ▷ Press button **B**.



Headrests

Removing

Front seats

- ▷ Press button **A** and, at the same time, completely remove headrest.

Rear seats

- ▷ Press button **B** and push the headrest all the way down.
- ▷ Press button **A** and, at the same time, pull the headrest completely out.

Installing

Note

The middle headrest of the rear seat bench must only be fitted to the middle seat of the rear seat backrest.

1. Insert the headrests into the guides.
2. Press button **B** and, at the same time, push the headrest downwards until the desired position is reached.
Install the middle headrest of the rear seat bench only on the middle seat and push it down fully.

Adjusting

The heights of the headrests for the front seats and the outer headrests for the rear seats can be adjusted.



Danger!

Improperly positioned headrests can cause serious personal injury or death in an accident.

- ▷ Adjust the headrest so that the upper edge of the headrest is at least at eye level or higher.
- ▷ Do not drive the vehicle without the headrest in place and properly adjusted.

Raising

- ▷ Push headrest upwards until the desired position is reached.
Additionally press button **B** on the rear seat headrests.

Lowering

- ▷ Press button **B** and, at the same time, push the headrest downwards until the desired position is reached.

Safety Belts



Danger!

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

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

Proper wearing of safety belts

- ▷ Safety belts must be positioned on the body as to restrain the upper body and lap from sliding forward. Improperly positioned safety belts can cause serious personal injury in case of an accident.
- ▷ The shoulder belt should always rest on your upper body. The shoulder belt should never be worn behind your back or under your arm.
- ▷ For maximum effectiveness, the lap belt should be worn low across the hips.
- ▷ Pregnant women should position the belt as low as possible across the pelvis. Make sure it is not pressing against the abdomen.
- ▷ Belts should not be worn twisted.
- ▷ Do not wear belts over rigid or breakable

objects in or on your clothing, such as eye glasses, pens, keys, etc. as these may cause injury.

- ▷ Several layers of heavy clothing may interfere with proper positioning of belts.
- ▷ Belts must not rub against sharp objects or damage may occur to the belt.
- ▷ Two occupants should never share the same belt at the same time.

Care and maintenance

- ▷ Keep belt buckles free of any obstruction that may prevent a secure locking.
- ▷ Belts that have been subjected to excessive stretch forces in an accident must be inspected or replaced to ensure their continued effectiveness in restraining you. The same applies to belt tensioner systems which have been triggered. In addition, the anchor points of the belts should be checked.
- ▷ If safety belts do not work properly, see your authorized Porsche dealer immediately.
- ▷ If the belts show damage to webbing, bindings, buckles or retractors, they should be replaced to ensure safe operation.
- ▷ Do not modify or disassemble the safety belts in your vehicle.
- ▷ The belts must be kept clean or the retractors may not work properly. Please observe the chapter "CAR CARE INSTRUCTIONS" on Page 247.

- ▷ Never bleach or dye safety belts.

- ▷ Do not allow safety belts to retract until they are completely dry after cleaning or this may cause damage to the belt.
-

Belt tensioner

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

The belt tensioners are triggered in:

- Front and rear impacts

The belt tensioners are not triggered in:

- Side impacts
- Vehicle overturning

Maintenance note

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



Warning lights and warning messages

When the ignition is switched on, a warning light lights up in the instrument panel to remind you to fasten your safety belt. In addition, a warning message is displayed on the multi-purpose display in the instrument panel until the tongue of the driver's safety belt has been inserted into the buckle.



Fastening the safety belt

- ▷ Assume a comfortable sitting position. Adjust the backrest of the front seat so that the belt always rests on your upper body and runs across the middle of your shoulder.
- ▷ Grasp the belt tongue and pull the belt in a slow, continuous motion across your chest and lap.

Note on operation

The belt can be blocked if the vehicle is standing at an angle or if the belt is pulled out using a jerking movement.

- ▷ The belt cannot be pulled out while accelerating and slowing down, when cornering and when driving uphill.
- ▷ Insert the belt tongue into the appropriate buckle on the inboard side of the seat, until it locks securely with an audible click.
- ▷ Make sure that belts are not trapped or twisted, and that they are not rubbing on sharp edges.
- ▷ The horizontal section of the belt should always fit snugly across the pelvis. Therefore, after fastening the belt, always pull the diagonal part of the belt upwards. Pregnant women should position the belt as low as possible across the pelvis, and ensure that it is not pressing against the abdomen.
- ▷ Pull on the diagonal section of the belt now and again during the journey to ensure that the horizontal section remains tight.



- ▷ Make sure that the belts and buckles fit correctly on the rear seat bench.

Releasing the safety belt

- ▷ Hold the belt tongue.
- ▷ Press the red button (**arrow**).
- ▷ Guide belt tongue to the reel.



Safety belt height adjustment

The heights of the belt deflectors for the driver's seat, passenger's seat and the outer rear seats can be adjusted.

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

Adjusting belt height manually

- ▷ Upward – push belt deflector up.
- ▷ Downward – press button **A** and move belt deflector.



Adjusting belt height electrically

- ▷ Operate rocker switch **B** in the desired direction until the optimal belt adjustment is reached.
- ▷ Please observe the chapter "FRONT SEAT WITH MEMORY" on Page 34.

Automatic locking retractor

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

Activating the automatic locking retractor

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

Releasing the safety belt

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



! Warning!

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

- ▷ Do not misuse the child restraint anchorages. Only attach **one** child seat tether per anchorage. They are not designed to withstand loads imposed by adults.

Child Restraint Anchorages

- ▷ Please observe the chapter “AUTOMATIC LOCKING RETRACTOR” on Page 47.

If your child restraint seat or seats require the use of a tether strap, you will want to use the anchor points **A** provided behind the rear seat backrests under the carpet.

To ensure proper installation, see your authorized Porsche dealer.

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

Child Restraint Systems

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

The use of infant or child restraints is required by law in all 50 states and the Canadian provinces. The child restraint system should be one that complies with U.S. Federal/Canadian Motor Vehicle Safety Standards 213 and should be secured by a lap belt or lap belt portion of a lap-shoulder belt or for child seats equipped with the LATCH system (Lower Anchorage and Tether for Children, AKA 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!

Risk of serious personal injury or death to the child.

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

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

Danger!

The use of a child restraint system in the front 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:

- ▷ Do not use a child restraint system in the front passenger seat.

Rearward facing child restraint system:

- ▷ Use only in the rear seat.

Forward facing child restraint system:

- ▷ Use only in the rear seat.

ISOFIX Child Seat System

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

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



The use of a child restraint system in the front 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:

- ▷ Do not use a child restraint system in the front passenger seat.



Installing an ISOFIX child seat system

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

Airbag Systems

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

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

Below the actuation threshold of the airbag system, and during types of collisions which do not cause the actuation of the system, the safety belts provide the primary protection to the occupants when correctly worn.

Therefore, all persons within the vehicle must always wear safety belts (in many states, state law requires the use of safety belts).

- ▷ Please observe the chapter "SAFETY BELTS" on Page 44.

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 above the doors in the roof area.

Function

The front airbags are triggered during a frontal collision of sufficient force.

In the event of a side impact of corresponding force, the side airbag on the impact side is triggered.

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

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



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

- ▷ Make sure there are no people, animals or objects between the driver or passenger and the area into which the airbag inflates.
- ▷ Sit back as far from the dashboard or steering wheel as is practical, while still maintaining full vehicle control.
- ▷ Do not lean against the inside of the doors.
- ▷ Always hold the steering wheel by the outer rim. Never rest your hands on the airbag panel.

- ▷ Never transport heavy or sharp objects on or in front of the passenger seat.
- ▷ Always keep the lid of the door storage compartment closed. Objects must not protrude out of the door storage compartment.
- ▷ Give your passenger all of the information in this chapter.
- ▷ No changes must be made to the wiring or components of the airbag system.
- ▷ Do not add any additional coverings or stickers to the steering wheel or in the area of the passenger airbag and side airbags. Doing so may adversely affect the functioning of the airbag system or cause harm to the occupants if the airbag system should deploy.
- ▷ Do not undertake any wiring for electrical accessory equipment in the vicinity of the airbag wiring harnesses. Doing so may disable the airbag system or cause inflation.
- ▷ If the warning light comes on, the airbag system should be repaired immediately by your authorized Porsche dealer.

▷ ▷ ▷

Note

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

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



Warning lights and warning messages

Faults are indicated by a warning light on the tachometer and a message on the instrument panel's multi-purpose display.

- ▷ **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 is switched on **or**
 - If the warning light does not go out once the engine is running **or**
 - If the warning light appears while driving.
- ▷ Please observe the chapter “WARNING LIGHTS AND WARNING MESSAGES” on Page 112.

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 at the sun visors, as well as on all airbag components.

For special recommendations on the use of child restraints:

- ▷ Please observe the chapter “CHILD RESTRAINT SYSTEMS” on Page 49.

Disposal

- ▷ Non-ignited gas generators, or whole vehicles or subassemblies with airbag units, must not be disposed of as “normal” scrap or waste or put into any other form of end storage. Your authorized Porsche dealer will be able to give you details about disposal.



Steering Wheel

Tiptronic rocker switches

The Porsche Tiptronic is a six-speed transmission and features an “automatic” and a “manual” gear-shift mode.

You can change temporarily to manual mode using rocker switches **A** on the steering wheel.

- ▷ Please observe the chapter “TIPTRONIC S” on Page 192.

Horn

- ▷ Press button **B** to operate the horn.

Airbag unit

Airbag unit **C** is located behind the padded steering wheel boss.

In conjunction with the safety belts, the “airbag” is a safety system designed to provide the driver and passengers with maximum protection from injury in an accident.

- ▷ Please observe the chapter “AIRBAG SYSTEMS” on Page 51.

Steering Wheel Heating

If the interior temperature in the vehicle is lower than +12°C when the ignition is switched on, the steering wheel heating is switched on automatically.

When this happens, the steering wheel adjusts to a temperature of +23°C.

If the interior temperature rises above +22°C when the vehicle is operational, the steering wheel heating switches off again.

Steering Wheel Adjustment

Warning!

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

You can lose control of the vehicle.

- ▷ Do not adjust the steering wheel when driving.

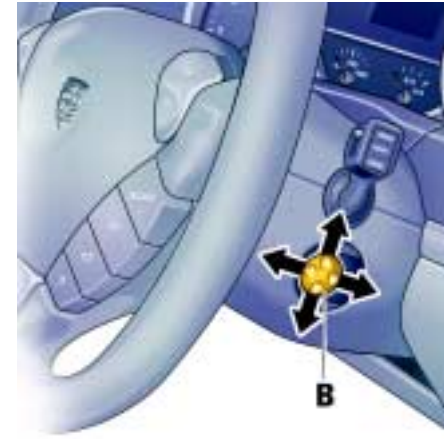
Risk of crushing due to uncontrolled recall of seat memory settings.

- ▷ Do not leave children in the car unattended.



Adjusting steering wheel height and longitudinal direction manually

1. Swivel locking lever **A** downwards.
2. Adapt the steering wheel setting to the backrest angle and your seat position. Move the steering wheel in the desired direction.
3. Swivel locking lever **A** back until you feel it engage.



Adjusting steering wheel height and longitudinal direction electrically

- ▷ Please observe the chapter "FRONT SEAT WITH MEMORY" on Page 34.

The steering wheel setting can be stored in the seat memory.

- ▷ Press control switch **B** in the relevant direction until the desired setting is reached.

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 the 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.
- ▷ If the vehicle is in motion, operate these components using the function keys on the multi-functional steering wheel.

Depending on the equipment in your vehicle, you can use these function keys to operate the following Porsche communication systems:

- Radio with CD drive
- CD changer

Readiness for operation of multi-functional steering wheel

- With ignition switched on **and**
- With Porsche communication systems switched on.

Note on operation

The Porsche communication systems cannot be switched on and off using the multi-functional steering wheel.



Operating the function keys

The function keys on the steering wheel (**arrows**) can be operated by pressing and by pulling.

Various functions may require you to press or pull the buttons several times in order to achieve the desired setting.

Note on operation

The more comfortable operating method is to pull the function keys.



Function keys

- ▷ Please read the operating instructions supplied for the Porsche communication systems before operating the function keys.

- MAN** **Manual tuning**
 - Set radio station manually.
- SCAN** **Scan titles, radio stations**
 - Scan titles, radio stations briefly.
- +** **Increase the volume of the relevant communication system**
- **Decrease the volume of the relevant communication system**
- △** **Next radio station/title**
 - Select the next radio station or title.
- ▽** **Last radio station/title**
 - Select the previous radio station or title.
- MUTE** **Switch off the sound**
- 🎵** **Source selection**
 - Select available audio source. Depending on the equipment in your vehicle, the following sources are available:
radio, CDS (single CD player), CDC (CD changer).



Steering wheel buttons – lighting

Using the buttons on the back of the steering wheel (**arrow**), the lighting for the function keys and the rocker switches can be switched on and off.

Switching lighting off

- ▷ Press button.

Switching lighting on

- ▷ Press button again.

Note on operation

- ▷ When the ignition is switched on, the lighting switches on automatically.



Interior Mirror

Initial position – lever forward
 Anti-dazzle setting – lever back

Note on operation

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



- A** - Door mirror setting – driver's side
- B** - Heat door mirror
- C** - Door mirror setting – passenger's side
- D** - Fold in door mirror

Door Mirrors

The convex mirror glass on the passenger's side and the aspherical mirror glass on the driver's side provide a larger field of view.

Warning!

Risk of accident. Vehicles or objects appear smaller in convex mirrors and further away than they are in reality.

- ▷ Bear this distortion in mind when estimating the distance of vehicles behind you and when reversing into a parking space.
- ▷ Also make use of the interior mirror for judging the distance.

Risk of damage to the door mirrors when washing the vehicle in a car wash.

- ▷ Fold in door mirrors before using the car wash.

Adjusting mirrors

- ▷ Please observe the chapter “MIRRORS” on Page 109.
- 1. Switch ignition on.
- 2. Select **A** for the driver’s side or **C** for the passenger’s side by turning the control switch.
- 3. Move the door mirrors in the appropriate direction by tilting the control switch.

If the electrical adjustment facility fails

- ▷ Adjust the mirror by pressing on the mirror face.

Folding in door mirror

- ▷ Switch ignition on.
- ▷ Turn control switch to **D**. Both door mirrors fold in automatically.

If the electrical adjustment facility fails

- ▷ Fold in mirror manually.

Unfolding door mirrors

- ▷ Switch ignition on.
- ▷ Turn control switch to **A** or **C**. Both door mirrors unfold automatically.

If the electrical adjustment facility fails

- ▷ Unfold mirrors manually.

Automatically swivelling down mirror glass on the passenger's side

- ▷ Please observe the chapter “PARKING AIDS” on Page 155.
- ▷ Please observe the chapter “FRONT SEAT WITH MEMORY” on Page 34.

Door mirror heating

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

Switching on

- ▷ Turn control switch to **B**. Both door mirrors are heated.

Switching off

- ▷ Change the position of the control switch.



E - Light-emitting diodes (LED)
 F - Button for automatic anti-dazzle operation
 G - Light sensors

Automatic Anti-Dazzle Mirror

Sensors on the front and rear sides of the interior mirror measure the incident light. The mirrors automatically change to anti-dazzle position or revert to their normal state, depending on the light intensity.

Warning!

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

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

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

- ▷ Clean the affected parts with water.

Note on operation

The incident light in the area of light sensors **G** must not be restricted (e.g. by stickers on the windshield).

Switching off automatic anti-dazzle operation

- ▷ Press button **F**.
Light-emitting diode **E** goes out.

Anti-dazzle operation switches off automatically, if:

- Reverse gear is engaged **or**
- Interior lighting **and/or**
Reading lights at the front are switched on.

Switching on automatic anti-dazzle operation

- ▷ Press button **F**.
Light-emitting diode **E** lights up.



- 0 - Initial position
- 1 - Ignition on
- 2 - Start engine
- 3 - Ignition off

Ignition Lock/Steering Lock

The ignition lock has a total of four ignition lock positions.



Porsche Entry & Drive control unit

Note on operation

The vehicle key rebounds to the initial position from every ignition lock position.

For vehicles that have **Porsche Entry & Drive** you do not need to insert the key into the ignition lock again but merely keep it with you. The ignition key is replaced by a control unit in the ignition lock, which **always** remains in the ignition lock, unless the vehicle is being towed.

Removing the control unit from the ignition lock

- ▷ Press button **A** and remove the control unit.

Ignition lock position 0

Initial position

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

To withdraw the ignition key:

- ▷ Stop the vehicle.
- ▷ Move selector lever to position **P**.
- ▷ Switch ignition off.
- ▷ Withdraw the ignition key.

Note on operation

The vehicle battery would be discharged rapidly if the ignition key is left inserted.

Ignition lock position 1

Ignition on

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

Note on operation

All electrical equipment can be switched on. The warning lights light up for a lamp check.

- ▷ Please observe the chapter "WARNING LIGHTS AND WARNING MESSAGES" on Page 112.

Ignition lock position 2

Starting engine

- ▷ Operate footbrake.
- ▷ Move selector lever to position **P** or **N**.
- ▷ Do not press the accelerator pedal.
The engine control module will provide the correct starting mixture.
- ▷ Turn ignition key to ignition lock position **2**.
- ▷ Do not operate the starter longer than approx. 10 seconds.
If necessary, repeat the starting procedure after a pause of approx. 10 seconds.
Turn the ignition key to ignition lock position **3** (ignition off) first.
- ▷ Do not warm up the engine when stationary.
Drive off immediately.
Avoid high revolutions and full throttle until the engine has reached operating temperature.
- ▷ If battery output is insufficient, jump leads can be used to start the engine.
- ▷ Please observe the chapter “EMERGENCY STARTING WITH JUMPER CABLES” on Page 307.

Notes on operation

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.

When the engine is started, the warning lights must go out.

Ignition lock position 3

Ignition off

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

Locking the steering column in vehicles without Porsche Entry & Drive

Automatic locking

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

Automatic unlocking

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

Locking the steering column in vehicles with Porsche Entry & Drive

Automatic locking

The steering column is locked when the ignition is switched off and the vehicle is locked.

Intentional locking

- ▷ Once the ignition is switched off, turn the control unit again to ignition lock position **3** and hold it there longer than **2 seconds**.
The steering column is locked.

Automatic unlocking

The steering column is unlocked by turning the control unit from ignition lock position **0**.

Starting and Stopping the Engine

- ▷ Please observe the chapter “IMMOBILIZER” on Page 19.
- ▷ Please observe the chapter “EMISSION CONTROL SYSTEM” on Page 245.



Warning!

Risk of poisoning. Exhaust gas contains colourless and odourless carbon monoxide, which is toxic even in low concentration.

- ▷ Never start the engine or let it run in confined spaces.

Danger of fire in the area of the hot exhaust system.

- ▷ Do not drive or park your car where combustible materials, such as dry grass or leaves, can come into contact with the hot exhaust system.

Starting

- ▷ Operate footbrake.
- ▷ Move selector lever to position **P** or **N**.
- ▷ Do not press the accelerator pedal. The engine control module will provide the correct starting mixture.
- ▷ Turn ignition key to ignition lock position **2**.
- ▷ Do not operate the starter longer than approx. 10 seconds. If necessary, repeat the starting procedure after a pause of approx. 10 seconds. Turn the ignition key back to ignition lock position **0** first.
- ▷ 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.
- ▷ Do not warm up the engine when stationary. Drive off immediately. Avoid high revolutions and full throttle until the engine has reached operating temperature.
- ▷ If battery output is insufficient, jump leads can be used to start the engine.
- ▷ Please observe the chapter “EMERGENCY STARTING WITH JUMPER CABLES” on Page 307.

Note on operation

To ensure a good charge condition for the battery and thus its ability to start the engine, all electrical accessories which are not required should be switched off when the ignition is switched on and when engine revolutions are low (in traffic jams, in cities or in queues).

Failure of the battery voltage

If your vehicle is fitted with an additional battery in the luggage compartment, you have the possibility of starting the engine with the ignition key, even if the battery voltage fails.

In vehicles with Porsche Entry & Drive:

1. Remove the Porsche Entry & Drive control unit from the ignition lock. Please observe the chapter “REMOVING THE CONTROL UNIT FROM THE IGNITION LOCK” on Page 60.
2. Insert the ignition key into the ignition lock and start the engine as described.

Please have the cause of the fault remedied at an authorized Porsche dealer.

 **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

- ▷ Only switch the ignition off when the vehicle comes to a stop as the steering assistance and brake boost are deactivated when the ignition is switched off.
- ▷ **Always** withdraw the ignition key and engage the parking brake when leaving the vehicle. The control unit **always** remains in the ignition lock in vehicles that have **Porsche Entry & Drive**.

Note on operation

The vehicle battery would be discharged rapidly if the ignition key is left inserted.

 **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.
-

Radiator fans

The radiator and radiator fans are in the front of the car.

 **Warning!**

Danger of injury. After the ignition is switched off, the engine compartment and coolant temperatures are monitored for approx. 15 minutes. During this period, and depending on temperature, the radiator fan may continue to run or start to run.

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



Parking Brake

The parking brake acts on the rear wheels and serves to secure the car while parked.

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

Applying the parking brake

- ▷ Press down firmly on the foot pedal. The warning light in the instrument panel lights up. A message will be displayed on the multi-purpose display of the instrument panel if the parking brake is not released before moving off. If the brake is not fully set, the vehicle may roll without control.
- ▷ Move the selector lever to "P".
- ▷ Before exiting the vehicle, make sure that the parking brake is fully applied 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.
- ▷ Please observe the chapter "PARKING BRAKE" on Page 116.

Releasing the parking brake

- ▷ Press on the footbrake and pull handle **A** of the parking brake. The warning light and the message disappear.

BRAKE



Parking Brake warning light USA



Parking Brake warning light Canada

The warning lights will go out after the parking brake is fully released. The warning lights are not an indicator that the parking brake is fully applied; 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, press down firmly on the foot pedal.
- ▷ Move the selector lever to "P".
- ▷ On hills also turn the front wheels towards the curb.

Brakes

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

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

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

Note

Even though the brake discs consist of alloyed grey cast iron, they will unavoidably start to corrode if your car is parked for an extended period. The brakes will tend to “rub” as a result.

The nature, extent and effects of corrosion depend on the amount of time the vehicle was parked, whether road salt or grit 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 left and rear right wheel and the other operates the front right and rear left wheel.

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

The warning light in the instrument panel lights up. A message will be displayed on the multi-purpose display of the instrument panel if the brake fluid level is too low, or (if the brake pedal travel has increased) one of the two brake circuits has 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 application should be 1-3/16 in. to 1-9/16 in. or 30 to 40 mm. Whenever the brake pedal travel exceeds this value, have the brake system checked.

Brake pedal



Warning!

Risk of an accident.

Any obstruction of the brake pedal could increase the stopping distance.

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

Note

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



Warning!

To avoid overheating and premature wear of the brakes:

- ▷ Before descending a steep grade, reduce speed and shift the transmission into a lower 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.

Moisture, road salt or grit on brakes affects braking. When the vehicle is driven on salted or gritted 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 the traction. Moisture on brakes from road water, car wash, or a coating of road salt or grit 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.

BRAKE  **Brake wear warning light USA**

  **Brake wear warning light Canada**

The warning light in the instrument panel lights up. A message will be displayed on the multi-purpose display of the instrument panel if the brake pads are worn, excessively.

- ▷ Do not continue to operate the vehicle. Have your authorized Porsche dealer inspect or replace the brake pads.
- ▷ Please observe the chapter “WARNING LIGHTS AND WARNING MESSAGES” on Page 112.

Brake pads and brake discs

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.

▷ ▷ ▷

 **Safety notes!**

- ▷ Do not obstruct the pedal travel with floor mats or other objects.

The brake booster is ready for operation only while the engine is running.

If the engine is switched off or there is a defect in the brake booster, much greater force has to be applied to the pedal when braking.

- ▷ Please observe the chapter "TOWING" on Page 326.

In heavy rain, while driving through water or after leaving a car wash, the braking action may be delayed and increased pressure may be required.

- ▷ For this reason, keep further back from the vehicle in front and "dry" the brakes by applying them at intervals. Make sure that following traffic is not affected.

After a long drive over salted or gritted roads, a coating may form on the brake discs and pads that significantly reduces friction and thus braking action.

- ▷ Therefore, clean the brake discs and pads approx. every 2 weeks with a strong jet of water. The cleaning effect of automatic car washes is insufficient.
To prevent corrosion of the brake discs, "brake them dry" before parking the car.

- ▷ 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 road salt or grit 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.



- ▷ To relieve the braking system on downhill stretches, change down to a lower gear in good time to obtain engine braking.
If engine braking is insufficient on steep stretches, operate the footbrake at intervals. Continuous braking overheats the brakes and reduces the braking effect.
 - ▷ Please observe the chapter "BRAKE-FLUID LEVEL" on Page 234.
-

Instrument Panel Cayenne S USA Models








Warning and indicator lights on the tachometer

-  Emission Control warning light
(Check Engine)
-  Airbag warning light
-  Safety belt warning light
-  PSM warning light
-  **ABS** ABS warning light
-  Cruise control readiness

Indicator lights in central instrument panel

-  Turn signal pilot light, left
Indicator light
-  Turn signal pilot light, right
Indicator light

Warning and indicator lights on the speedometer

-  Trailer turn signal
Indicator light
-  Rear fog light indicator light
-  Tire pressure warning light
-  Differential locking indicator light
-  **BRAKE** Brake warning light
-  Fog light indicator light
-  General warning
Observe warning message on the multi-
purpose display!
-  High beam indicator light







- A Oil temperature gauge
- B Tachometer
- C Clock
- D Clock reset button
- E Cooling system temperature gauge
- F Multi-purpose display
- G Fuel gauge
- H Reset button for trip counter display
- I Speedometer
- J Mileage displays
- K Voltmeter





011-300

Instrument Panel Cayenne S Canada Models









Warning and indicator lights on the tachometer

-  Emission Control warning light
(Check Engine)
-  Airbag warning light
-  Safety belt warning light
-  PSM warning light
-  ABS warning light
-  Cruise control readiness

Indicator lights in central instrument panel

-  Turn signal pilot light, left
Indicator light
-  Turn signal pilot light, right
Indicator light

Warning and indicator lights on the speedometer








-  Trailer turn signal
Indicator light
-  Rear fog light indicator light
-  Tire pressure warning light
-  Differential locking indicator light
-  Brake warning light
-  Fog light indicator light
-  General warning
Observe warning message on the multi-
purpose display!
-  High beam indicator light

- A Oil temperature gauge
- B Tachometer
- C Clock
- D Clock reset button
- E Cooling system temperature gauge
- F Multi-purpose display
- G Fuel gauge
- H Reset button for trip counter display
- I Speedometer
- J Mileage displays
- K Voltmeter



Instrument Panel Cayenne Turbo USA Models

Warning and indicator lights on the tachometer

-  Emission Control warning light (Check Engine)
-  Airbag warning light
-  Safety belt warning light
-  PSM warning light
-  **ABS** ABS warning light
-  Turn signal pilot light, left
-  Cruise control readiness

Warning and indicator lights on the speedometer








-  Rear fog light indicator light
-  Turn signal pilot light, right
-  Trailer turn signal Indicator light
-  Differential locking indicator light
-  **BRAKE** Brake warning light
-  Fog light indicator light
-  Tire pressure warning light
-  High beam indicator light

- A Oil temperature gauge
- B Tachometer
- C Clock reset button
- D Cooling system temperature gauge
- E Multi-purpose display
- F Digital speedometer, Outside temperature, Clock, Mileage displays
- G Fuel gauge
- H Reset button for trip counter display
- I Speedometer
- J Engine boost pressure display



Instrument Panel Cayenne Turbo Canada Models

Warning and indicator lights on the tachometer

-  Emission Control warning light
(Check Engine)
-  Airbag warning light
-  Safety belt warning light
-  PSM warning light
-  ABS warning light
-  Turn signal pilot light, left
-  Cruise control readiness

Warning and indicator lights on the speedometer

-  Rear fog light indicator light
-  Turn signal pilot light, right
-  Trailer turn signal Indicator light
-  Differential locking indicator light
-  Brake warning light
-  Fog light indicator light
-  Tire pressure warning light
-  High beam indicator light

- A Oil temperature gauge
- B Tachometer
- C Clock reset button
- D Cooling system temperature gauge
- E Multi-purpose display
- F Digital speedometer,
Outside temperature,
Clock,
Mileage displays
- G Fuel gauge
- H Reset button for trip counter display
- I Speedometer
- J Engine boost pressure display





Oil Temperature Gauge

A warning message will appear on the multi-purpose display of the instrument panel if the engine oil temperature is too high.

- ▷ Reduce speed and engine load immediately if the red zone is reached.



Cayenne S

Tachometer

The start of the red zone on the tachometer scale is a visual warning of the maximum permissible engine speed.

If the red zone is reached during acceleration, fuel feed is interrupted in order to protect the engine.



Example: Cayenne Turbo

Speedometer

The digital speedometer is integrated into the multi-purpose display in the instrument panel.

An analogue display is also located on the right beside the multi-purpose display in the instrument panel.



Cooling System

Temperature gauge

Pointer below 176°F (80°C) – engine cold

- ▷ Avoid high engine speeds and heavy engine loading.

Pointer between 176°F (80°C) and 212°F (100°C) – normal operating temperature

Pointer may move up to the red area when engine is heavily loaded and outside temperature is high.

Engine coolant temperature warning

A warning message will appear on the multi-purpose display of the instrument panel if the engine coolant temperature is too high.

- ▷ Switch engine off and let it cool.
- ▷ Check radiator and air passages in front end of car for obstructions.
- ▷ Check coolant level. Add coolant if necessary. Please have the fault remedied at an authorized Porsche dealer.
- ▷ Please observe the chapter “COOLANT LEVEL” on Page 232.

Cooling air guides

To prevent excessive temperatures, the cooling air guides must not be restricted by covers (e.g. films, “stone guards”).

Engine coolant level warning

A warning message will appear on the multi-purpose display of the instrument panel if the engine coolant level is too low.

- ▷ Switch engine off and let it cool.
- ▷ Top up coolant. Please have the cause of the fault remedied at an authorized Porsche dealer.
- ▷ Please observe the chapter “COOLANT LEVEL” on Page 232.

Caution!

Risk of engine damage.

- ▷ Do not continue driving if the warning persists even when the engine coolant level is correct.
- ▷ Have the fault remedied at your nearest authorized Porsche dealer.



Fuel

Level gauge

When the ignition is on the fuel level is displayed.

- ▷ Please observe the chapter “CAPACITIES” on Page 336.

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

Fuel reserve warning

When the engine is running, the warning light on the multi-purpose display of the instrument panel lights up if less than 4 gallons (15 litres) of fuel remains in the tank. A warning message also appears on the multi-purpose display.

- ▷ Fill up at the next opportunity.



Caution!

A shortage of fuel may cause damage to the emission control system.

- ▷ Never drive the tank dry.
 - ▷ If the warning lights have come on, do not take bends at high speed.
-
- ▷ Please observe the chapter “HOW EMISSION CONTROL WORKS” on Page 246.

Odometer

The upper display counts the total mileage, the lower display counts the short trips.

After exceeding 9999 kilometres or 6213 miles, the short trip counter returns to 0.



Cayenne S

Resetting the short trip counter to “0”

- ▷ Press button **A** for approx. 1 second.

Cayenne Turbo odometer

The odometer is located on the multi-purpose display in the instrument panel.

The left display counts the total mileage, the right display counts the short trips.



Cayenne S

Cayenne S Clock



Warning!

Risk of an accident and loss of control.

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

Clock **A** is adjusted on the multi-purpose display:

- ▷ Press button **B**.
The SETTINGS > CLOCK menu is automatically opened on the multi-purpose display.
- ▷ Please observe the chapter "CLOCK" on Page 105.



Cayenne S

Voltmeter

The voltmeter indicates the battery voltage. Normal range: 12 to 16 volts.

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

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

- ▷ Please have the battery charging system checked at an authorized Porsche dealer.

Battery/generator

A warning message will appear on the multi-purpose display of the instrument panel if the voltage drops significantly.

- ▷ Stop in a safe place and switch off the engine.

Possible causes

- Defect in the battery charging system
- Broken drive belt

Warning!

Risk of 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 engine cooling fails.

- ▷ Do not continue driving.
- ▷ Have the fault remedied at your nearest authorized Porsche dealer.

Danger of steering assistance failing during a long journey in the water if the drive belt slips.

- ▷ If the steering assistance fails, more effort will be required to steer.



Cayenne Turbo

Engine Boost Pressure

As the engine is equipped with a boost pressure control feature, the boost pressure is variable. The boost pressure depends on the speed, ambient pressure and on the octane rating of the fuel used.

Emission Control



Check engine warning light

The emission control system detects malfunctions early that could, for example, cause increased pollutant emissions or consequential damage. Faults are indicated by a constant lighting up or flashing of the warning light in the instrument panel and a message on the instrument panel's multi-purpose display.

The faults are recorded in the control unit's fault memory.

- ▷ Please observe the chapter "WARNING LIGHTS AND WARNING MESSAGES" on Page 112.

The warning light in the instrument panel lights up when the ignition is switched on as a lamp check and goes out approx. 4 seconds after the engine starts.

The warning light in the instrument panel flashes to indicate operating states (e.g. engine misfiring) which might cause damage to certain parts of the emission control system. A warning also appears on the multi-purpose display of the instrument panel.

- ▷ In this case, immediately reduce the engine load by easing off the accelerator.
The warning light in the instrument panel is lit continuously after the critical range is left.
- ▷ In order to avoid consequential damage to the engine or emission control system (e.g. catalytic converter) go immediately to the nearest authorized Porsche dealer to have the fault diagnosed and rectified.

Caution!

Risk of damage. If the warning light in the instrument panel continues flashing even when you have eased off the accelerator pedal, the emission control system may overheat.

- ▷ Stop as soon as possible in a safe place.
Make sure that combustible materials, such as dry grass or leaves, cannot come into contact with the hot exhaust system.
 - ▷ Switch off the engine.
 - ▷ Contact your nearest authorized Porsche dealer to have the fault rectified.
-

Multi-Purpose Display



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 the 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
- ▷ If it is necessary to operate these components while the vehicle is in motion, use the function keys on the multi-functional steering wheel. Perform function only if safe to do so.

It is not possible to describe all details of the functions in this Owner's Manual.

The examples clearly demonstrate the functional principle and clarify the menu structure.

As a rule, you can use the menu items:

MAIN MENU > SETTINGS > FACTORY SETTINGS

to return to the basic factory settings.

- ▷ Please observe the chapter "FACTORY SETTINGS" on Page 111.



Readiness for operation

- Ignition is on.

Operation, controls

The multi-purpose display is operated with the rocker switch at the end of the wiper stalk and the RESET switch at the bottom of the wiper stalk.

To move up in the menu

- ▷ Press rocker switch up.

To move down in the menu

- ▷ Press rocker switch down.

To call selected menu line

- ▷ Press RESET switch.

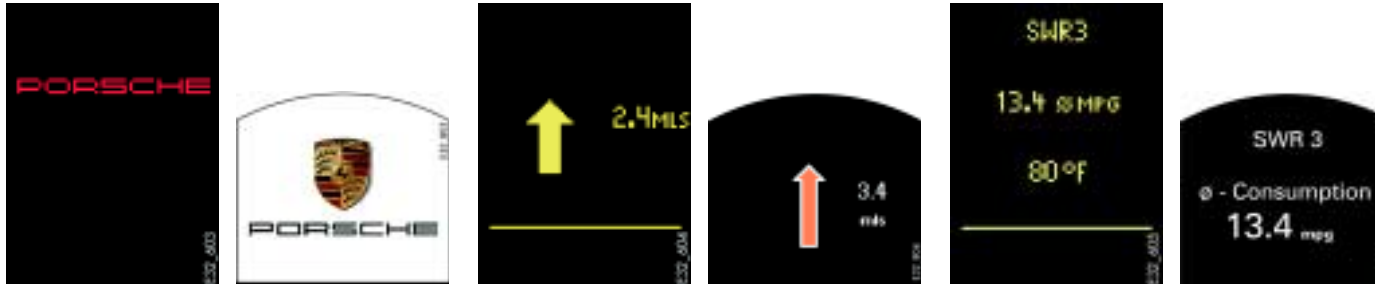
To scroll in the menu

Arrows at the top and bottom of the menu indicate additional entries.

- ▷ Press rocker switch up or down.

In the COMFORT menu, the menu scrolls automatically as you approach the end of the list.

The menus of the multi-purpose display are shown for the Cayenne S and the Cayenne Turbo in this Owner's Manual.



Basic Screens

The following basic screens are available once the ignition has been switched on:

- Main menu
- Average consumption
- Range on remaining fuel
- Average speed
- Navigation
- Tire pressure
- Compass (in the Cayenne Turbo, the compass is permanently displayed to the left of the multi-purpose display).

Note on operation

Depending on the equipment of your vehicle, some information or functions may not be available on the multi-purpose display (e.g. telephone, navigation, audio system or tire pressure).

Information in the basic screen

The selected basic screen shows the following:

- Information and notes on the respective topic
- Audio source (e.g. station, frequency, CD) at the top of the display

Changing basic screens

- ▷ Operate the rocker switch.

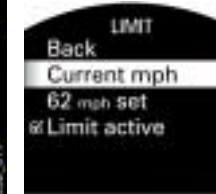
Note

When the system is operational, the display shows the basic screen selected most recently.

Resetting basic screens

The values can be reset to zero in the basic screens for average consumption and average speed.

- ▷ Press RESET switch for longer than 2 seconds. This deletes the values.



Main Menu

- ▷ Operate the rocker switch until the basic screen MAIN MENU is displayed.

- ▷ Press RESET switch.

The submenus are listed:

- Speed limit
- Vehicle info
- Tyre pressure
- Settings

Note

It is possible to leave the main menu via the BACK command at any time by confirming with the RESET switch.

Speed Limit

MAIN MENU > SPEED LIMIT (MPH LIMIT)

It is possible to enter a speed limit here. If the limit is exceeded, a warning note will be issued. The current speed can be adopted as the limit, or the limit can be preselected manually using the rocker switch.

Accepting current speed

To set the current speed as the limit:

- ▷ Select CURRENT MPH with the rocker switch.
- ▷ Press RESET switch. LIMIT ACTIVE is activated automatically. The selected speed limit is shown.



Presetting the speed

To set a target speed as the limit:

- ▷ Select __ MPH SET with the rocker switch.
- ▷ Press RESET switch.
- ▷ The limit is set in increments of 1 mph by pressing the rocker switch up and down. If the rocker switch is operated for longer than 2 seconds, the setting is changed in increments of 10 mph.
- ▷ Press RESET switch. LIMIT ACTIVE is activated and the selected speed limit is shown.

Activating/deactivating the limit

- ▷ Select LIMIT ACTIVE with the rocker switch.
- ▷ Press RESET switch. The speed limit is shown.

Note

If LIMIT is active, a warning is issued when the speed limit is exceeded.



Vehicle info

MAIN MENU > VEHICLE INFO

- ▷ Select VEHICLE INFO with the rocker switch.
- ▷ Press RESET switch.

The following information can be displayed:

- Warnings
All current warnings and messages pertaining to the safety of the vehicle.
- Level
Current state of the vehicle's ground clearance for vehicles with level control.
- Locks/reduction
Current state of the vehicle drive.

Example: Brake pad warning message

Warnings

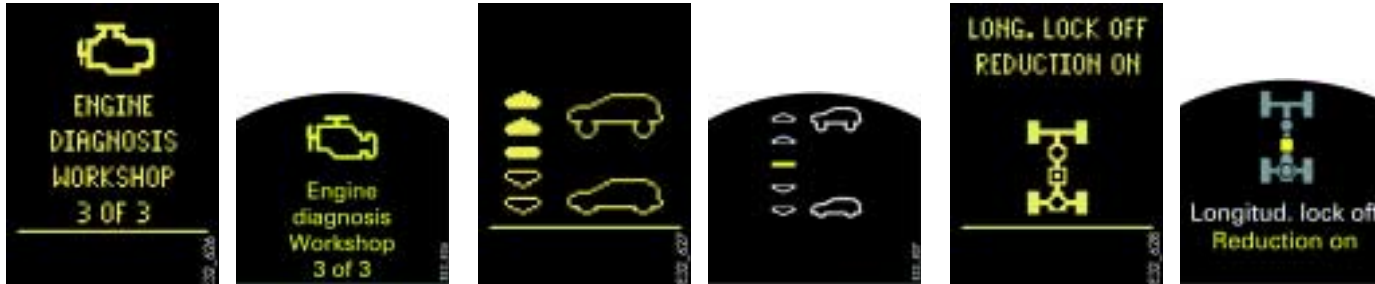
MAIN MENU > VEHICLE INFO > WARNINGS

NO WARNING is displayed if the vehicle is in perfect condition.
Any warning messages are displayed.

- ▷ Select warnings one after the other with the rocker switch.

Note on operation

Messages in the Cayenne Turbo with a cause that cannot be remedied appear as a small symbol in the lower area of the multi-purpose display.



Example: Engine fault warning message

Returning to the VEHICLE INFO menu

- ▷ Press RESET switch.



Caution!

Warning messages indicate possible faults.

- ▷ Go to an authorized Porsche dealer immediately.

Level

MAIN MENU > VEHICLE INFO > LEVEL

The ground clearance of vehicles equipped with level control is shown in the LEVEL menu.

Note on operation

- ▷ The level is set using the rocker switch behind the selector lever in the center console.
- ▷ Please observe the chapter "AIR SUSPENSION WITH LEVEL CONTROL AND HEIGHT ADJUSTMENT" on Page 220.

Returning to the VEHICLE INFO menu

- ▷ Press RESET switch.

Locks/reduction

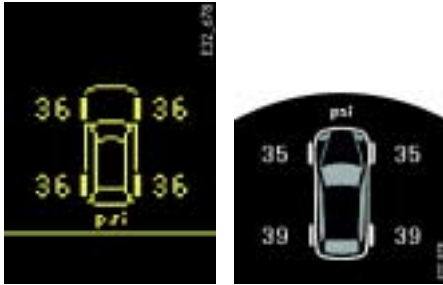
MAIN MENU > VEHICLE INFO > LOCKS/REDUCTION

The vehicle drive settings for difficult terrain are shown.

- Center lock on/off
- Reduction on/off

Returning to the VEHICLE INFO menu

- Press RESET switch.



Tire pressure screen

Tire Pressure

The tire pressure monitoring system monitors the pressure in the four road wheels and warns the driver if the pressure is too low.

The menus of the multi-purpose display are shown for the Cayenne S and the Cayenne Turbo in this Owner's Manual.

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.

- ▷ If a message is displayed, check the tire pressure at the next opportunity.
- ▷ If a warning is displayed, stop in a suitable location and check the tires.
- ▷ Use only the pressure differences shown in the TYRE PRESSURE menu when correcting the tire pressure.
- ▷ After **every** tire change, enter the tire type **and** size for the tire pressure monitoring system. Only if the tire type **and** size are selected will the system re-learn the new wheels.
- ▷ Tires can lose air over time without a tire defect being present. The tire pressure monitoring system will then issue a corresponding message or warning. Correct the tire pressure at the next opportunity.

Indication of tire pressures on the basic screen "Tire pressure"

The basic screen "Tire pressure" shows the current actual values of the tire pressures. These values would be identical to those of a pressure gage connected to the four valves. These pressures change while the vehicle is being driven.

- The tire pressures increase as the temperature in the tires rises, e.g. during high-speed highway driving.
- The tire pressures decrease as the temperatures drop, e.g. during trips in cold regions (such as mountains).

The pressure changes by around 1.5 psi (0.1 bar) for a temperature change of 50°F (10°C).

The values displayed on the basic screen therefore do not allow conclusions to be drawn about possible pressure deviations.

- ▷ When correcting the tire pressure, use only the information in the system message or the information in the "Tyre pressure" menu.



Filling information

Tyre pressure menu

MAIN MENU > TYRE PRESSURE
(only with vehicle stationary)

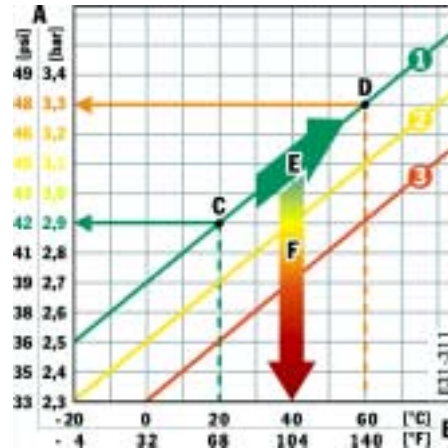
Deviations in the tyre pressures from the required pressure are shown in the TYRE PRESSURE menu (filling information). The specifications are independent of the current tyre temperature.

Read the tyre pressure

- ▷ Read how much air must be added from the filling information in the TYRE PRESSURE menu.

A “-” in front of the value indicates a pressure loss. The tyre pressures must be adjusted to the required pressure.

Example: If the tyre pressure display shows “-2.9 psi”, you must increase the tyre pressure by 2.9 psi.



Pressure increase as the result of temperature increase

- A - Tyre temperature
- B - Tyre pressure
- C - Tyre pressure for cold tires
- D - Tyre 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 - Notification of tyre-pressure loss (from -0.2 bar to -0.4 bar/-3 to -6 psi)
- 3 - Flat-tyre warning (as of -0.4 bar /-6 psi)

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

The basic screen “**Tyre pressure**” on the multi-purpose display indicates the actual, temperature-dependent tyre pressures (**B**) in the four wheels. You can watch the tyre pressure rise as the temperature increases (**E**). Value **D** in the example is therefore the required pressure for the Cayenne tires at a temperature of 60°C (140°F).

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

The values in the “Tyre pressure” menu are based on the required-pressure information for cold tires (20°C or 68°F) **C**.

The pressure difference with respect to the required pressure is specified irrespective of the current tyre temperature.

If actual pressures are 0.2 or 0.4 bar (3 or 6 psi) less than the required pressures (**F**), the system will display a message or a warning including the insufficient pressure value.

These values do not depend on the current tyre pressure and correspond to the values in the “Tyre pressure” menu.

- ▷ Please observe the chapter “WARNINGS AND MESSAGES” on Page 99.

▷ ▷ ▷

Safety notes!

Despite the advantages offered by the tire pressure monitoring system, it is still the driver's responsibility to update the corresponding settings in the system.

Incomplete entries on the multi-purpose display can affect the reliability of the system. The vehicle's traffic safety will be reduced.

- ▷ If a message is displayed, check the tire pressure at the next opportunity.
- ▷ If a warning is displayed, stop in a suitable location and check the tires.
- ▷ Use only the pressure differences shown in the TYRE PRESSURE menu when correcting the tire pressure.
- ▷ After **every** tire change, enter the tire type **and** size for the tire pressure monitoring system.
Only if the tire type **and** size are selected will the system re-learn the new wheels.
- ▷ Tires can lose air over time without a tire defect being present. The tire pressure monitoring system will then issue a corresponding message or warning.
Correct the tire pressure at the next opportunity.

Tire pressure specifications

The tire pressure must match the prescribed value (required pressure).

You can find information on the tire pressure for cold tires (68°F/20°C):

- as a deviation from the nominal pressure in the TYRE PRESSURE menu for each wheel if the system has learned the values.
- As a required pressure in the TYRE PRESSURE menu for each axle if the system has not completed the learning phase.
- and in the front left door aperture.
- ▷ Please observe the chapter "TIRE PRESSURES, COLD" on Page 335.

Insufficient tire pressure can cause tires to overheat and thus be damaged – even invisibly. Hidden tire damage is not eliminated by subsequently correcting the tire pressure.

- ▷ Please observe the chapter "TIRES/WHEELS" on Page 259.



System learning phase

Each time a wheel is changed, the tire pressure monitoring system re-learns the tires. The system identifies the wheel positions.

The current tire pressures will not be available on the multi-purpose display until a period of around 20 minutes has elapsed.

System learning phase

- ▷ Select tire type **and** tire size in the menu TYRE PRESSURE > SETTINGS > TYRES.
The learning process is started. The tire type **and** size must be selected even if the settings for the new set of wheels are the same as for the old wheels.

Note

The spare wheel is not monitored by the tire pressure monitoring system. Every 6 months, the system issues a reminder to check the tire pressure.

The tire pressures for cold tires (68°F/20°C) are shown in the TYRE PRESSURE menu (filling information) during the learning phase. The required pressure for the spare wheel is always displayed in the TYRE PRESSURE menu (filling information).

The collapsible spare wheel is also not equipped with a wheel transmitter.

Tire pressure monitoring warning light

All warnings and messages in the tire pressure monitoring system are also indicated by the warning light in the instrument panel. The warning light goes out as soon as all faults are remedied.



Tire pressure filling information



Tire pressure menu

The TYRE PRESSURE menu provides an overview of the current pressure specifications for the respective wheel (filling information). The pressure differences with respect to the required pressure are specified irrespective of the tire temperature.

If the wheels have not been learned, the current pressures are unavailable.

The spare wheel is not monitored. The required pressure is specified in brackets.



Tire pressure settings menu

Tire pressure settings

MAIN MENU > TYRE PRESSURE > SETTINGS

Settings made in this menu serve as the basis on which the tire pressure monitoring system determines the correct pressure. Incomplete entries on the multi-purpose display affect the correct output of warnings and messages.

▷ ▷ ▷

The following settings must be made:

- **Tires**
Select the type and size of the tyres on the vehicle
- **Load**
Select the type of loading
- **System**
Switch tire pressure monitoring on/off

Note on operation

The TYRE PRESSURE menu on the multi-purpose display cannot be selected when the vehicle is moving. Settings can be made only when the vehicle is stationary.



Tire type menu

Tire type

MAIN MENU > TYRE PRESSURE > SETTINGS > TYRE TYPE

The tire type and corresponding tire size are set in the TYRE TYPE menu.

- Summer
- All season
- Winter
- All terrain
- Spare wheel



Selection of tire sizes for summer tires

Example: Selecting summer tires

MAIN MENU > TYRE PRESSURE > SETTINGS > TYRE TYPE > SUMMER

- > Select tire type with the rocker switch.
- > Press RESET switch.
- > Select tire size with the rocker switch (e.g. 255/55 R 18).
- > Press RESET switch.
The menu returns to TYRE PRESSURE > SETTINGS and shows the current settings.



Note on operation

- ▷ The tire size and type can be found on the tire sidewall. Please observe the chapter "TIRES/WHEELS" on Page 259.

Speed limits for tires

Depending on the tire type selected, the maximum permissible speed for the tire must be observed. Once the tire type has been selected, the speed limit is adapted automatically. A warning appears on the multi-purpose display if the limit is exceeded.



Warning!

Risk of accident due to excessive speed.

- ▷ Always observe the permissible maximum speed of the respective tire.

Summer

No speed limit activated.

All season (M&S)

150 mph (240 km/h)

Winter (M&S)

130 mph (210 km/h)

All terrain (M&S)

120 mph (190 km/h)

Spare wheel

Collapsible spare wheel/sealing set: 50 mph (80 km/h)

Note

For every tire type, another approved tire size can be entered by an authorized Porsche dealer.



Spare wheel selection

Spare wheel

MAIN MENU > TYRE PRESSURE > SETTINGS > TYRE TYPE > SPARE WHEEL

This menu lists all possible spare wheel types available depending on the equipment of the vehicle.

- Spare wheel
- Collapsible spare wheel
- Sealing set



Spare wheel



Warning!

Risk of accident.

The spare wheel does not contain a wheel transmitter and is not monitored by the tire pressure monitoring system.

- ▷ The spare wheel must be used only over short distances.

- ▷ Please observe the chapter “SPARE WHEEL” on Page 282.
- ▷ Select SPARE WHEEL with the rocker switch.
- ▷ Press RESET switch.
The message SYSTEM NOT ACTIVE, WORKSHOP appears after the RESET switch is pressed.
The display automatically returns to the TYRE PRESSURE menu (filling information).
The required pressure specifications can be read.
- ▷ Select BACK. The menu returns to the basic screen.

The reminder SPARE WHEEL OR SEALING SET OPERATION appears each time the ignition is switched on.

- ▷ Please observe the chapter “MESSAGE “SPARE WHEEL OR SEALING SET OPERATION”” on Page 102.

Collapsible spare wheel



Warning!

Risk of accident.

The spare wheel does not contain a wheel transmitter and is not monitored by the tire pressure monitoring system.

- ▷ The collapsible spare wheel must be used only over short distances.

- ▷ Please observe the chapter “COLLAPSIBLE SPARE WHEEL” on Page 278.
- ▷ Select COLLAPSIBLE WHEEL with the rocker switch.
- ▷ Press RESET switch.
The required pressure and speed limit for the collapsible spare wheel are displayed at first. This is followed by the message SYSTEM NOT ACTIVE, WORKSHOP.

A warning appears on the multi-purpose display if the speed limit of 50 mph (80 km/h) is exceeded.

The reminder SPARE WHEEL OR SEALING SET OPERATION appears each time the ignition is switched on.

- ▷ Please observe the chapter “MESSAGE “SPARE WHEEL OR SEALING SET OPERATION”” on Page 102.

Tire sealant/sealing set



Warning!

Risk of accident.

- ▷ Have the tire replaced by a specialist workshop as soon as possible.
- ▷ Avoid hard acceleration and high cornering speeds.
- ▷ Do not exceed maximum speed of 80 km/h (50 mph).
- ▷ Please observe the safety and operating instructions on compressor.

- ▷ Please observe the chapter “TIRE SEALANT” on Page 274.
- ▷ Select SEALING SET with the rocker switch.
- ▷ Press RESET switch.
The display automatically returns to the TYRE PRESSURE menu (filling information).
- ▷ Inflate tires according to the displayed pressure differences.

A warning appears on the multi-purpose display if the speed limit of 50 mph (80 km/h) is exceeded.

SPARE WHEEL OR SEALING SET OPERATION appears each time the ignition is switched on.

- ▷ Please observe the chapter “MESSAGE “SPARE WHEEL OR SEALING SET OPERATION”” on Page 102.



Selecting load

- ▷ Select type of load with the rocker switch.
- ▷ Press RESET switch. The set load status is shown.

Deviations from the required pressure are shown in the menu TYRE PRESSURE > SETTINGS (filling information). Correct the pressure according to these specifications.

Load

MAIN MENU > TYRE PRESSURE > SETTINGS > LOAD

The tire pressure must be adjusted according to the vehicle load.

- ▷ Please observe the chapter "TYRE PRESSURES, COLD" on Page 335.
- Partial load
up to 3 people and 46 lb (21 kg) of luggage
- Full load
more than 3 people and 46 lb (21 kg) of luggage



System

MAIN MENU > TYRE PRESSURE > SETTINGS > SYSTEM

Tire pressure monitoring can be switched on or off in the SYSTEM menu.

If tire pressure monitoring is switched off, tire pressures and warnings are not shown. Tire pressure information is not available on the tire pressure monitoring screen either.

Switching on tire pressure monitoring

- ▷ Select ON with the rocker switch.
- ▷ Press RESET switch.

The display automatically returns to the menu TYRE PRESSURE > SETTINGS.

- ▷ Check whether the settings in the menu agree with the tires mounted on the vehicle. Correct any incorrect settings before driving the vehicle.
- ▷ Select the tire type and tire size in the menu MAIN MENU > TYRE PRESSURE > SETTINGS. The system will re-learn the wheels only if the tire type **and** tire size have been selected.

Switching off tire pressure monitoring

- ▷ Select OFF with the rocker switch.
- ▷ Press RESET switch. The message MONITORING OFF is displayed for 10 seconds. The menu then returns to the basic screen.



“Monitoring off” message

If tire pressure monitoring is deactivated, the message MONITORING OFF appears each time the ignition is switched on.

- ▷ The message is displayed for 10 seconds **or**
- ▷ Press RESET switch.

Warnings and Messages



Warning!

Risk of accident. Tire damage may impair road safety.

- ▷ Stop the vehicle in a suitable place. Check the tires for signs of damage and change them if necessary.

Example: If the tire pressure display shows “- 3 psi”, you must increase the tire pressure by 3 psi.

Tires can lose air over time without a tire defect being present. The tire pressure monitoring system will then issue a corresponding message or warning.

- ▷ Correct the tire pressure at the next opportunity.



Message indicating tire pressure loss

This message indicates a pressure loss of between 3 and 6 psi (0.2 and 0.4 bar) :

- If the wheel positions have not been identified yet **or**
- For more than one wheel if the tires have already been learned.

This message appears when the vehicle is stationary and the ignition is switched on again.

- ▷ The message is displayed for 10 seconds **or**
- ▷ Press RESET switch.

Note on operation

- ▷ Correct the tire pressure at the next opportunity. When correcting the tire pressure, add only the pressure differences shown in the "Tyre pressure" menu.

Message indicating tire pressure loss for a wheel

The system has identified the wheel positions. The deviation from the required pressure is displayed for the corresponding wheel.

This message indicates a pressure loss of between 3 and 6 psi (0.2 and 0.4 bar).

This message appears when the vehicle is stationary and the ignition is switched on again.

- The message is displayed for 10 seconds **or**
- Press RESET switch.

Note on operation

- ▷ Correct the tire pressure at the next opportunity. When correcting the tire pressure, add only the pressure differences shown in the "Tyre pressure" menu.



Message indicating a flat tire while the system is learning

This warning message indicates a flat tire with a pressure loss of at least 0.4 bar (6 psi). The system has not identified the wheel positions yet; the tire pressures are not displayed.

This warning cannot be acknowledged.

- ▷ Stop the vehicle in a suitable place. Check the tires for signs of damage and change them if necessary.

When the vehicle is stationary, the screen changes to SELECTION AFTER WARNING.

- ▷ Please observe the chapter "SELECTION AFTER WARNING" on Page 101.

Message indicating a flat tire after the learning phase has been completed

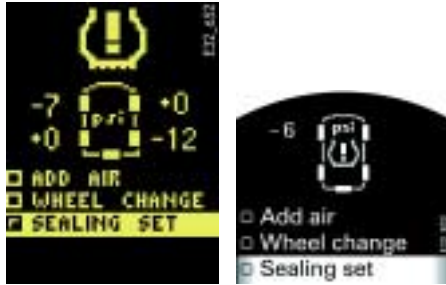
This warning message indicates a flat tire with a pressure loss of at least 0.4 bar (6 psi). The system has identified the wheel positions. The deviation from the required pressure is displayed for the corresponding wheel.

This warning cannot be acknowledged.

- ▷ Stop the vehicle in a suitable place. Check the tires for signs of damage and change them if necessary.

When the vehicle is stationary, the screen changes to SELECTION AFTER WARNING.

- ▷ Please observe the chapter "SELECTION AFTER WARNING" on Page 101.



Selection after warning

When the vehicle is stationary after a flat tire warning or when the message WHEEL CHANGE? CHECK SETTING is displayed, the screen changes to SELECTION AFTER WARNING.

- ▷ In the menu, select the task performed.

Note on operation

If you make a selection without changing or inflating the wheel, the message CAUTION FLAT TIRE CHECK TIRES will appear again.

- ▷ Stop the vehicle in a suitable place. Check the tires for signs of damage and change them if necessary.

Adding air

- ▷ After inflating the wheel in question, select ADD AIR. The system automatically returns to the basic screen after acknowledgement.

For vehicles without air suspension

- ▷ Please observe the chapter "REDUCING FILLING PRESSURE ON VEHICLES WITHOUT AIR SUSPENSION" on Page 279.

For vehicles with air suspension

- ▷ Please observe the chapter "REDUCING TIRE PRESSURE ON VEHICLES WITH AIR SUSPENSION" on Page 281.

Wheel change

- ▷ For changing a wheel, select menu item WHEEL CHANGE. The system automatically changes to the SPARE WHEEL menu after acknowledgement.
- ▷ Please observe the chapter "SPARE WHEEL" on Page 95.
- ▷ Please observe the chapter "LIFTING THE VEHICLE WITH A JACK" on Page 276.

Sealing set

- ▷ After repairing the flat with the tire sealant, select menu item SEALING SET.
- ▷ Please observe the chapter "TIRE SEALANT" on Page 274.
- ▷ Please observe the chapter "TIRE SEALANT/ SEALING SET" on Page 96.

After SEALING SET has been selected, the system automatically changes to the basic screen.

A warning appears on the multi-purpose display if the speed limit of 50 mph (80 km/h) is exceeded.

Warning “When vehicle stops: Hit selection”

If you drive off after changing a wheel or inflating the tires and neglect to make a selection in the screen SELECTION AFTER WARNING, the following message will appear: WHEN VEHICLE STOPS: HIT SELECTION

Note on operation

The next time you stop the vehicle, update the settings in the tire pressure menu in the multi-purpose display.



Message “Spare wheel or sealing set operation”

After the type of spare wheel (spare wheel, collapsible spare wheel or sealing set) has been set on the multi-purpose display, the message “SPARE WHEEL OR SEALING SET OPERATION?” appears each time the ignition is switched on.

- ▷ Select YES or NO with the rocker switch.
- ▷ Press RESET switch.

Yes:

- In case of sealing-set operation, the menu changes directly to the basic screen. All settings are retained.
- If the vehicle is operated with a collapsible spare wheel or spare wheel, the warning message “SYSTEM NOT ACTIVE, WORKSHOP” is initially displayed for 10 seconds. The system then returns to the basic screen.

No:

The display automatically returns to the menu TYRE PRESSURE > SETTINGS.

- ▷ Set the mounted tire set with tire type **and** tire size. The system will re-learn the tires.



“Wheel change” message

If you forgot to enter the tire type and size for the tire pressure monitoring system after changing the wheels, the message “WHEEL CHANGE? CHECK SETTINGS” will appear after a short time.

When the vehicle is stationary, the display changes to SELECTION AFTER WARNING.

- ▷ Please observe the chapter “SELECTION AFTER WARNING” on Page 101.
- ▷ Select WHEEL CHANGE. The menu automatically changes to TIRE TYPE.
- ▷ Select the appropriate tire type **and** tire size. Only if the tire type **and** size are selected will the system re-learn the new tires.

Spare-wheel pressure message

The spare wheel is not monitored by the tire pressure monitoring system.

Approximately every 6 months, the system issues a reminder to check the tire pressure.

- ▷ The message is displayed for 10 seconds **or**
- ▷ Press RESET switch.

Note on operation

- ▷ Check the tire pressure of the spare tire at the next opportunity.

“Monitoring off” message

Tire pressure monitoring was intentionally deactivated. This message appears each time the ignition is switched on.

- ▷ The message is displayed for 10 seconds **or**
- ▷ Press RESET switch.

Tire pressure monitoring is turned on or off in the menu TYRE PRESSURE > SETTING > SYSTEM.



“Brief disturbance” message

The tire pressure monitoring system is based on the principle of radio transmission. Other radio systems such as wireless headphones or high-intensity radio fields in the vicinity may cause interference.

External interference or excessive temperatures (above 248°F/120°C) at the wheel sensors will cause the system to switch off temporarily. It is not possible to read the current tire pressure values off the multi-purpose display during this time. The system does not issue any warnings or messages.

“Too many wheel transmitters” message

The tire pressure monitoring system detects more than four wheel transmitters (winter tires in the luggage compartment, for example) and switches off. The current tire pressures are not available on the multi-purpose display. The system does not issue any warnings or messages.

“System not active – Workshop” message

This message appears when the ignition is switched on:

- If the tire pressure monitoring system is faulty **or**
- If wheel sensors are not present (e.g. collapsible spare wheel, spare wheel).
- ▷ The message is displayed for 10 seconds **or**
- ▷ Press RESET switch.

Note

- ▷ Please go to an authorized Porsche dealer without delay.



Settings

MAIN MENU > SETTINGS

The following functions can be selected in the main menu SETTINGS:

- Clock
- Compass
- Comfort (only with vehicle stationary)
- Lights (only with vehicle stationary)
- Units (only with vehicle stationary)
- Language (only with vehicle stationary)
- Factory settings (only with vehicle stationary)

Clock

MAIN MENU > SETTINGS > CLOCK

To set the clock:

- ▷ Select time with the rocker switch.
- ▷ Press RESET switch.
- ▷ Select the hours or minutes display with the rocker switch.
- ▷ Press RESET switch.
- ▷ Set the time in increments of 1 h or 1 min.
- ▷ Press RESET switch.

To select 12 h mode:

- ▷ Select 12 h MODE with the rocker switch.
- ▷ Press RESET switch.

Note on operation

There is also a button on the instrument panel to call the CLOCK menu.

- ▷ Please observe the chapter "CAYENNE S CLOCK" on Page 81.

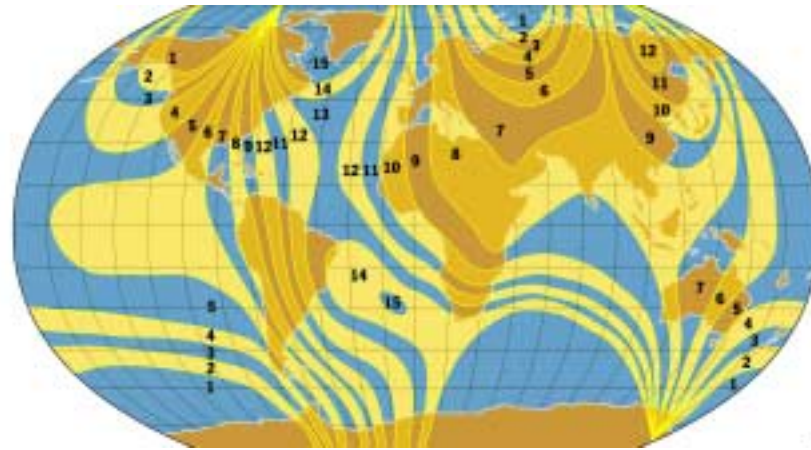


Compass

MAIN MENU > SETTINGS > COMPASS

If you drive your vehicle across the magnetic field zone set on the multi-purpose display, you must enter your current zone in the COMPASS menu (see illustration).

- ▷ Enter the corresponding zone in increments of 1 using the rocker switch.
- ▷ Press RESET switch.



Calibrating

In rare cases, external disturbances may necessitate calibration of the compass. The warning message "CAL." appears on the multi-purpose display.

- ▷ To calibrate the compass, follow the displayed instructions DRIVE IN A FULL CIRCLE.

The system automatically returns to the screen after successful calibration.



Comfort

MAIN MENU > SETTINGS > COMFORT

The COMFORT menu offers the following submenus:

- Alarm
- Door opening
- Mirrors
- ▷ Select the entry with the rocker switch.
- ▷ Press RESET switch.

Note on operation

Comfort settings can be made only when the vehicle is stationary.

Alarm

MAIN MENU > SETTINGS > COMFORT > ALARM

The passenger compartment monitoring system and the inclination sensor (protection against towing) can be temporarily deactivated in the ALARM menu.

When unlocked again, the passenger compartment monitoring system and inclination sensor are activated once more.

- ▷ Please observe the chapter "COMFORT FUNCTION WHEN UNLOCKING THE VEHICLE" on Page 29.

Passenger compartment

The alarm is triggered if motion is detected in the interior with the doors closed (e.g. if a window is broken in a theft).

- ▷ Select INTERIOR with the rocker switch.
- ▷ Press RESET switch.
This activates/deactivates passenger compartment monitoring.

Inclination

The alarm is triggered if the vehicle is raised markedly at one end with the doors closed (e.g. theft attempt by towing).

- ▷ Select ANGLE with the rocker switch.
- ▷ Press RESET switch.
This activates/deactivates the inclination function.

▷ ▷ ▷



Door opening

MAIN MENU > SETTINGS > COMFORT > DOOR OPENING

Door locking and unlocking and the type of confirmation can be individually configured here.

The DOOR OPENING menu offers five choices:

- Doors
- Signal
- Tailgate (Rear lid)
- Auto lock
- Auto unlock

Doors

MAIN MENU > SETTINGS > COMFORT > DOOR OPENING > DOORS

Door unlocking can be set on an individual basis.

- ▷ Select the desired setting with the rocker switch.
- ▷ Press RESET switch.

Single door

Only the driver's door is unlocked. The door of the access side is unlocked in vehicles equipped with Porsche Entry & Drive.

Vehicle side

Both doors on the driver's side are unlocked. The doors on the access side are unlocked in vehicles equipped with Porsche Entry & Drive.

All

All doors are unlocked.

Rear lid

When the TAILGATE function is active, rear access (rear lid, rear window and spare wheel bracket) is included in the central locking system.

Access is possible when the vehicle is stationary and unlocked.

At speeds higher than 4 mph (6 km/h), release is blocked until, with the vehicle stationary:

- A door is opened **or**
- The button in the driver's door is pulled.

When the TAILGATE function is deactivated, access is possible only:

- Using the button in the driver's door **or**
- With button **2** of the remote control.

Auto lock

If the AUTO LOCK function is active, the doors lock automatically when the vehicle exceeds 4 mph (6 km/h).

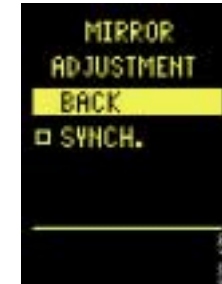
Note on operation

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

- ▷ Please observe the chapter “UNLOCKING” on Page 22.

Auto unlock

When the AUTO UNLOCK function is active, the doors unlock automatically when the ignition key is withdrawn (or when the ignition is switched off in vehicles equipped with Keyless Entry & Drive).



Signal

MAIN MENU > SETTINGS > COMFORT > DOOR OPENING > SIGNAL

Opening of the doors is confirmed by the hazard warning lights flashing or by a horn signal.

- ▷ Select type of signal with the rocker switch.
- ▷ Press RESET switch.

Mirrors

MAIN MENU > SETTINGS > COMFORT > MIRRORS

For the purpose of custom use, mirror adjustment can be synchronised or deactivated here. When this function is active, the mirrors move simultaneously and in the same direction.

- ▷ Press RESET switch.



Lighting

MAIN MENU > SETTINGS > LIGHTS

You can set the duration the headlights remain on after the vehicle is locked.

- ▷ Select OFF DELAY with the rocker switch.
- ▷ Press RESET switch. The set coming home time is active.
- ▷ Select time with the rocker switch and press the RESET switch.
- ▷ You can use the rocker switch to set an off-delay time (Coming Home function) ranging from 15 to 90 seconds. The time is set in increments of 15 seconds.
- ▷ Press RESET switch.

Units

MAIN MENU > SETTINGS > UNITS

The UNITS menu offers the following options:

- Speedometer
Select unit for speedometer:
km/h, mph
- Consumption
Select unit for fuel consumption:
l/100km, mpg (USA), mpg (UK), km/l
- Temperature
Select unit for temperature: °C, °F
- Tyre pressure
Select unit for pressure: bar, psi
- ▷ Select the desired item with the rocker switch and the RESET switch.
- ▷ Activate or deactivate the desired units with the RESET switch.

Language

MAIN MENU > SETTINGS > LANGUAGE

- ▷ Select language with the rocker switch.
- ▷ Press RESET switch.

Note on operation

Changing the language will affect the entire multi-purpose display.



Factory settings

MAIN MENU > SETTINGS > FACTORY SETTINGS

All settings made (Clock, Compass, Comfort, Lights, Units, Language) can be reset to the factory settings.

Resetting












- ▷ Select RESET with the rocker switch.
- ▷ Press RESET switch.



















Note

This will delete all settings selected up to this point.

















Warning Lights and Warning Messages






















If a warning message appears, always refer to the corresponding chapters in this Owner's Manual.




















Instrument panel	Multi-purpose display	Text display	Meaning/measures
		Steering faulty	Steering lock engaged. Have the fault remedied at an authorized Porsche dealer.
		Ignition lock faulty	Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
		System fault – Workshop	Have the fault remedied at an authorized Porsche dealer.
		Key not recognised in vehicle	Make sure that you have the remote control with you.
		Turn ignition key to left for 2 seconds	Engage the steering lock.
		Key: replace battery	Replace the remote-control battery.
		Move the steering wheel	Turn the steering wheel so that the steering wheel lock can engage/disengage.
		Key not found	Make sure that you have the remote control with you.
		Switch selector lever to position "P".	The vehicle could roll away.
		Apply the brake	Apply the brake when starting.
		Move selector lever to position "P" or "N"	The vehicle can be started only in position "P" or "N".
		Immobiliser active	Have the fault remedied at an authorized Porsche dealer.
		Check left cornering light	Check bulb.





Instrument panel	Multi-purpose display	Text display	Meaning/measures
		Check right cornering light	Check bulb.
		Check dipped beam	Check bulb.
		Check trailer lights	Check bulb.
		Check direction indicators	Check turn signal bulb.
		Check brake lights	Check bulb.
		Check high beam	Check bulb.
		Check number plate light	Check bulb.
		Check fog lights	Check bulb.
		Check reversing lights	Check bulb.
		Check tail lights	Check bulb.
		Check front side lights	Check bulb.
		Check headlight beam adjustment	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.
		Airbag faulty	Have the fault remedied at an authorized Porsche dealer.
		Passenger's airbag deactivated	The passenger airbag must be switched on again once the child seat has been removed.
		Safety belt	Fasten safety belt.

Instrument panel	Multi-purpose display	Text display	Meaning/measures
		Warning – Flat tire – Check tires	Stop in a suitable place and check the tires. Change wheel if necessary.
		Check spare wheel – Required pressure: 3.4 bar/50 psi	Appears about every 6 months. Check whether pressure of the mounted spare wheel matches the required pressure.
		Tire pressure too low – Add air	System detects a pressure loss of at least 0.2 bar/2.9 psi. Correct tire pressure at the next opportunity.
		Collapsible spare wheel/sealing set max. 80 km/h (50 mph)	Observe maximum permitted speed.
		Collapsible spare wheel/3.5 bar/51 psi max. 80 km/h (50 mph)	Information on driving with a collapsible spare wheel.
		Observe max. speed for tires	Observe maximum permitted speed for the mounted tires.
		System not active – Workshop	Indication when spare wheel or collapsible spare wheel is used or system is faulty. Have the fault remedied at an authorized Porsche dealer and select new set of wheels in the tire pressure menu after changing the wheels.
		System not active – Brief disturbance	External interference of excessive temperature at the wheel transmitters. System will reactivate itself.
		System not active – Too many wheel transmitters	Tire pressure monitoring system detects more than 4 wheel transmitters (winter wheels in in the luggage compartment, for example). System will reactivate itself.
		No monitoring – System learning	After the tire type and size are selected in the tire pressure menu, the system re-learns the tires.
		Wheel change? Check settings	Display after a wheel change without changed settings in the tire pressure menu. Select tire type and size.

Instrument panel	Multi-purpose display	Text display	Meaning/measures
		When vehicle stops: Hit selection	Displayed after a flat tire if the system was not informed about the work performed. Make a selection on the multi-purpose display when the vehicle is stationary.
		Monitoring off	Tire pressure monitoring was intentionally deactivated. Tire pressure monitoring can be switched on or off on the multi-purpose display.
		Check radiator fans	Have the fault remedied at an authorized Porsche dealer.
		Engine diagnosis – Workshop	Have the fault remedied at an authorized Porsche dealer.
		Engine temperature too high	Switch engine off and let it cool. Check coolant level. Add coolant if necessary.
		Check coolant level	Switch engine off and let it cool. Check coolant level. Add coolant if necessary.
		Battery/generator warning	Stop in a suitable place and switch engine off. Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
		Starting engine	The battery discharges if the engine is not running and loads are switched on. Start the vehicle or switch the loads off.
		Electrics – Loads – Switch-off	Vehicle electrical system is overloaded. Certain loads (e.g. heated rear window, seat heating) will be switched off.
		Please refuel	
		Topping up washer fluid	
		Oil level monitoring – Failure – Workshop	Have the fault remedied at an authorized Porsche dealer.
		Checking the oil level	

Instrument panel	Multi-purpose display	Text display	Meaning/measures
		Oil pressure too low	Immediately stop in a suitable place and switch engine off. Do not continue driving. Check engine oil level. Add oil if necessary. Do not continue driving if the warning light comes on even when the oil level is correct. Have the fault remedied at an authorized Porsche dealer.
		Service in 3000 km/mls	Bring the vehicle in for service no later than after the distance shown has been covered.
		Service now	Have your vehicle serviced at an authorized Porsche dealer.
		Brake pads – Workshop	Have the brake pads replaced at an authorized Porsche dealer without delay.
		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 – Workshop	Have the fault remedied at an authorized Porsche dealer.
		PSM failure – Workshop	Have the fault remedied 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.
		Parking brake	Parking brake not released.
		PSM on	
		PSM off	
		Brake booster faulty	Greater braking pedal force necessary. Drive carefully to the nearest authorized Porsche dealer.
		Sport shock absorber	Current setting of Porsche Active Suspension Management.
		Normal shock absorber	Current setting of Porsche Active Suspension Management.

Instrument panel	Multi-purpose display	Text display	Meaning/measures
		Comfort shock absorber	Current setting of Porsche Active Suspension Management.
		Warning – Air suspension	Stop in a suitable place. Do not continue driving. Have the fault remedied at an authorized Porsche dealer.
		Air suspension faulty – Workshop	Drive carefully to the nearest authorized Porsche dealer.
		Spare wheel filling	Collapsible spare wheel being filled with level-control compressor. Do not drive off!
		Control off	Level control has been switched off (to jack up the vehicle).
		Not permissible	The prerequisites for setting the desired level have not been met.
		Pressure accumulator charging	Level control temporarily unavailable.
		All-wheel drive system faulty	Have the fault remedied at an authorized Porsche dealer.
		Lock overloaded	Center differential lock switched off temporarily. Take a break from driving.
		Possible only in neutral with brake applied	The vehicle must be stationary, the footbrake must be applied and the selector lever must be in position N when changing between Low Range and High Range.
		Warning – Parking lock! Operate footbrake.	Do not continue driving. Apply the parking brake. Have the fault remedied at an authorized Porsche dealer.
		Spare wheel not locked	Lock spare wheel bracket properly.
		Driver's door open	All unlocked doors, lids and the spare wheel bracket are displayed when the vehicle exceeds 3 km/h (2 mph).
		Passenger's door open	All unlocked doors, lids and the spare wheel bracket are displayed when the vehicle exceeds 3 km/h (2 mph).
		Rear left door open	All unlocked doors, lids and the spare wheel bracket are displayed when the vehicle exceeds 3 km/h (2 mph).

Instrument panel	Multi-purpose display	Text display	Meaning/measures
		Rear right door open	All unlocked doors, lids and the spare wheel bracket are displayed when the vehicle exceeds 3 km/h (2 mph).
		Bonnet open	All unlocked doors, lids and the spare wheel bracket are displayed when the vehicle exceeds 3 km/h (2 mph).
		Rear lid open	All unlocked doors, lids and the spare wheel bracket are displayed when the vehicle exceeds 3 km/h (2 mph).
		Rear window open	All unlocked doors, lids and the spare wheel bracket are displayed when the vehicle exceeds 3 km/h (2 mph).



Light switch **with** driving light assistant

 **Light Switch**

- **Light is switched off.**

 **Driving light assistant**

 **Side lights**

Number plate light, instrument illumination

 **Dipped beam, high beam**

Only when the ignition is switched on



Light switch **without** driving light assistant

 **Fog lights**

Only when side lights or dipped beam are switched on:

Pull switch to first click.
Indicator light lights up.

Note on operation

If the ignition key is withdrawn and the door is opened while the lights (not the parking light) are on, an acoustic signal (gong) warns of possible battery discharge.

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

 **Rear fog light**

Pull switch to second click.
Indicator light lights up.

Automatic driving light assistant

The driving light assistant is a comfort function. Your Porsche's driving light (dipped beam) is switched on and off automatically, irrespective of the ambient brightness.

As the driver of the vehicle, you are also obliged to switch on the driving light using the conventional light switch in accordance with the relevant national regulations.

Activating the headlights using the driving light assistant does not therefore absolve the driver of responsibility for the correct operation of the driving light.

The dipped beam is switched on automatically in the following situations:

- Dusk
- Darkness
- Travelling through tunnels
- Rain (in conjunction with the rain sensor)
- Highway driving

Note on operation

Fog is not recognised.

- ▷ In the event of fog, the driving light must be switched on manually.



Risk of accident due to driving without lights.

- ▷ Always carefully monitor the automatic driving light control.
-

Highway function

The light is switched on at speeds of over 140 km/h (87 mph). If you are travelling slower than 65 km/h (40 mph), the driving light is switched off after a delay of approx. 2 minutes, if the external lighting conditions permit.

Rain function

The driving light is switched on after five seconds of continuous wiper operation.

The driving light is switched off approx. 4 minutes after the wipers have stopped.

Bi-Xenon main headlights with dynamically controlled cornering light

The Bi-Xenon main headlights are equipped with an additional light in vehicles with a cornering light. As a result of its particular positioning, the additional light provides significantly better lane lighting to the left and right of the main light beam.



A - Instrument lighting knob

Instrument Illumination

When the light is switched on, the brightness of the instrument illumination can be adjusted by turning thumb wheel **A**.

- ▷ Please observe the chapter “A - BUTTON FOR DIMMING THE COMFORT LIGHTING” on Page 150.

Automatic Headlight Beam Adjustment

Vehicles with Bi-Xenon 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 dipped beam on.
2. Switch ignition on.

The light beam first dips all the way down and is then adapted to the vehicle load. If this test item is not met, the headlight beam adjustment system must be checked by an authorized Porsche dealer.



Turn signal/High Beam/Headlight Flasher Stalk

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

- 1 – Turn signal light, left
 - 2 – Turn signal light, right
 - 3 – High beam
 - 4 – Headlight flasher
- Lever in center position – dipped beam
(when the light is switched on)

Note on operation

When the high beam is switched on and the headlight flasher is operated, the blue indicator light on the speedometer is lit.

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.



Hazard Warning Light Switch

The hazard warning light is ready for use regardless of the ignition lock position.

Switching on and off

- ▷ Press button **A**.

All turn signal lights and indicator lights on the dashboard flash when the switch is operated.

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.

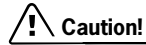
Danger of fire.

- ▷ 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.
-

Windshield Wiper/Washer Stalk



Caution!

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

- ▷ Only wipe the windshield when sufficiently wet, otherwise it could be scratched.
- ▷ Loosen frozen wiper blades before driving off.
- ▷ Do not operate headlight washer when it is frozen.
- ▷ Always switch off windshield wipers in car wash to prevent them wiping unintentionally (rain sensor operation).
- ▷ Do not operate headlight washer in car washes.
- ▷ Always switch off windshield wipers before cleaning the windshield to avoid unintentional operation (rain sensor operation).
- ▷ Always hold the wiper arm securely when replacing the wiper blade.
- ▷ Always switch the windshield wipers off (position **0**) before opening the engine compartment lid.



0 – Windshield wipers off

1 – Front windshield wiper – rain sensor operation

- ▷ Move wiper stalk upwards to the first click.

Notes on operation

The amount of rain or snow which has settled on the windshield is measured. Wiper speed is automatically adjusted accordingly.

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 stalk 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.

▷ ▷ ▷

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.

2 – Front windshield wiper – slow

- ▷ Move wiper stalk upwards to the second click.

3 – Front windshield wiper – fast

- ▷ Move wiper stalk upwards to the third click.

At speeds of less than approx. ca. 4 km/h (2.5 mph), rain sensor operation mode is automatically activated if the windshield wiper is switched on. If you exceed a speed of approx. 8 km/h (5 mph), the system switches to the pre-selected wiper level.

4 – Front windshield wiper – one-touch operation

- ▷ Move wiper stalk downwards. The front windshield wipers go through three wipe cycles.

5 – Front windshield wipers and washer system

- ▷ Pull wiper stalk 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.

Headlight washer (on vehicles with Bi-Xenon headlights):

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

The spray duration is limited.

- ▷ If heavily soiled, repeat wash.

Maintenance note

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

- ▷ Please observe the chapter “CAR CARE INSTRUCTIONS” on Page 247.

6 – Rear window wiper – intermittent operation

- ▷ Move wiper stalk forwards to the first click. The rear window wiper wipes at preset intervals.

7 – Rear window wiper – one-touch operation

- ▷ Push wiper stalk forward briefly. The washer system sprays and the rear window wiper goes through three wipe cycles.

8 – Rear window wiper and washer system

- ▷ Push wiper stalk forwards as far as it will go. The washer system sprays and wipes while the lever is pulled away from the steering wheel. When the wiper lever is released, a few drying wipes are executed.

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

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.
- ▷ Replace the damaged wiper blades immediately.



- A - SET (Store speed)
- 1 - RESUME
(Switch on/resume cruise control readiness)
- 2 - OFF (Interrupt)
- 3 - + SPEED (Accelerate)
- 4 - - SPEED (Decelerate)

Cruise Control

Cruise control maintains any selected speed between 40 and 200 km/h (25 - 124 mph) without your having to use the accelerator. Cruise control is operated with the lever on the steering wheel.

Warning!

Risk of accident in heavy traffic and consequent personal injury, on twisting roads or under unfavourable road conditions (e.g. wintry or wet conditions, varying road surfaces).

- ▷ Do not use cruise control under such conditions.
- ▷ Observe all local and national speed limits.

Warning!

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

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

▷ ▷ ▷

Switching cruise control readiness on

- ▷ Pull back the cruise control lever to position **1** until it clicks audibly into place.



Cruise control readiness

The green indicator light on the tachometer now indicates readiness.

Maintaining and storing speed

- ▷ Bring the car to the desired speed with the accelerator.
- ▷ Press button **A**.
The desired speed has now been stored.

Accelerating (e.g. to overtake)

Option 1

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

Option 2

- ▷ Push operating lever upwards into position **3** until the desired speed is reached.
The speed reached is maintained and stored when the lever is released.

Option 3

- ▷ Push lever slightly upwards into position **3** (a maximum of 10 times).
The speed is increased by 2 km/h (1 mph).

Note on operation

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

Decelerating

Option 1

- ▷ Push operating lever down into position **4** until the desired speed is reached.
The speed reached is maintained and stored when the lever is released.

Option 2

- ▷ Push lever slightly downwards into position **4** (a maximum of 10 times).
The speed is reduced by 2 km/h (1 mph).

Interrupting cruise control operation

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

- ▷ Push forward the cruise control lever to position **2** (it doesn't engage) **or**
- ▷ Press brake pedal **or**
- ▷ Switch selector lever to position **N**.
- ▷ Please observe the chapter "TIPTRONIC S" on Page 192.

Cruise control operation is interrupted automatically:

- If the set vehicle speed is exceeded by more than approx. 25 km/h (16 mph) for longer than 20 seconds.
- If the actual vehicle speed falls by approx. 10 km/h (6 mph) below the set vehicle speed for longer than 5 seconds (e.g. upward slopes).
- If Porsche Stability Management (PSM) intervenes for longer than 0.2 seconds.
- If Low Range is switched on.

Resuming the stored speed

- ▷ Pull back the cruise control lever to position **1**.

Note on operation

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

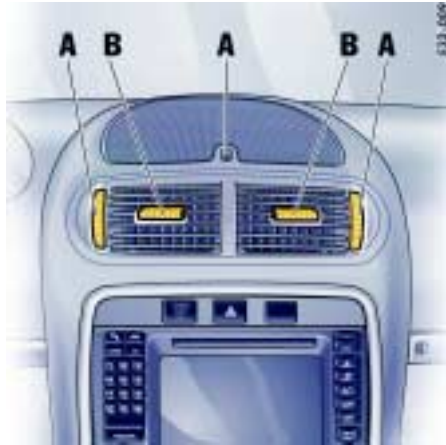
Switching cruise control readiness off

- ▷ Push forward the cruise control lever to position **2** until it clicks audibly into place. The memory is cleared and the green readiness light goes out.
- ▷ Switch ignition off. The memory is cleared.

Tip on driving

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

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



A - Continuous opening and closing
B - Setting vent direction

Changing air flow direction

- ▷ Swivel vent fins **B** in the desired direction.

Note on operation

Fresh air or conditioned fresh 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 engine compartment lid free from snow, ice and leaves.

Vents

○ Opening vents

- ▷ Rotate thumb wheel **A** upward.

● Closing vents

- ▷ Rotate thumb wheel **A** downward.



Heated Rear Window

The heated rear window is ready for operation when the ignition is on.

Switching on

- ▷ Press button **B**.
Indicator light lights up.

Depending on the outside temperature, the heating switches off automatically after approx. 5 to 20 minutes.
The heating can be switched back on again by pressing the switch again.

Switching off

- ▷ Press button **B**.
Indicator light goes out.

Cover Flap of the Air-Conditioning Control Panel

Opening the cover flap

- ▷ Swivel cover flap on the handle (**arrow**) downwards. Other buttons for operating the air-conditioning system are uncovered.

Sensors

To avoid damaging the air-conditioning system:

- ▷ Do not cover the sun sensor on the instrument panel and temperature sensor **E** on the front control panel of the air-conditioning system.



- A - Windshield defroster
- B - Heated rear window
- C - AUTO button (automatic mode)
- D - Recirculated air, automatic recirculated air
- E - Temperature sensor
- F - Air-conditioning display
- G - Air-quantity button
- H - Temperature button, left side
- I - Air to windshield
- K - Air to central and side vents
- L - Air to footwell
- M - ECON button (air-conditioning compressor off/on)
- N - REST button (engine residual heat)
- O - Temperature button, right side



Automatically Controlled Two-Zone Air Conditioning Display

Depending on various factors (e.g. sunlight, air quality), the air-conditioning system controls the preset interior temperature fully automatically.

If necessary, the automatic system can be manually influenced.

This individual adjustment is shown on the air-conditioning display panel.

The air-conditioning display panel shows the following:

- Air quantity
- Selected interior temperature, left/right
- Individual settings
- Time that is identical to that shown in the instrument panel.

Automatic mode

- ▷ Press AUTO button **C**.
Indicator light lights up.
Air quantity and distribution are automatically controlled and variations are compensated.

Note on operation

If necessary, the automatic system can be manually influenced.

This manual setting is retained until the appropriate function button is pressed again or the AUTO button is pressed.

Switching MONO function on

The temperature settings for the driver's side can be accepted for the entire vehicle.

- ▷ Press AUTO button **C** for 2 seconds.
The MONO logo appears on the air-conditioning display panel.

Ending MONO function

- ▷ Press AUTO button **C** for 2 seconds **or**
- ▷ Change the settings in the air-conditioned areas.

Setting temperature

To suit personal comfort, the interior temperature can be adjusted between 16°C and 29.5°C.

Recommendation: 22°C

- ▷ Push temperature button up or down.
Button **H**: left side of vehicle
Button **O**: right side of vehicle
The selected temperature is shown on the display above the button.

If "LO" or "HI" appears on the display, the system is operating at maximum cooling or heating power. Automatic mode is switched off.

If the preselected temperature is changed, the air quantity blowing out can adjust automatically in automatic mode.

The desired temperature is reached more quickly this way.



Setting air quantity

- ▷ Push button **G** up or down to adjust the air quantity.
The selected air quantity is shown in a bar display on the display above the button.

Press AUTO button **C** to return to automatic mode.

If the air quantity was reduced so much that "OFF" appears on the display, the outside-air supply is interrupted.



Warning!

Risk of accident due to hampered vision. If the air quantity is "OFF", the windows may mist up.

- ▷ Only select circulating-air setting for short periods.
- ▷ If windows mist up, turn off the circulating-air setting by pressing the circulating-air button briefly and select the function "Defrost windshield".
- ▷ Push button **G** up (to increase air quantity).



Defrosting the windshield

- ▷ Press button **A**.
Indicator light lights up.
The air flows to the windshield and the front side windows.
The windshield is demisted or defrosted as quickly as possible.

Ending the function

- ▷ Press button **A** again **or** Press the AUTO button.



Switching automatic circulating-air mode on

- ▷ Press button **A** once.
Indicator light lights up.
Control of the outside-air supply depends on the air quality.

Note

The recommended operating mode is automatic circulating-air mode.



Switching circulating-air mode on



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 windows mist up, end circulating-air mode by pressing the circulating-air button again and selecting the function "Defrost windshield".
- ▷ Press button **D** twice.
Indicator light lights up.
The outside-air supply is interrupted and only the inside air is circulated.

Note on operation

When the air-conditioning compressor is switched off manually or automatically, circulating-air mode ends after approx. 3 minutes.



Air to windshield

- ▷ Press button **I**.
The air flows to the windshield.



Air to central and side vents

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



Air to footwell

- ▷ Press button **L**.
The air flows to the footwell.

Ending air distribution functions

- ▷ Press the relevant button again **or**
- ▷ Press the AUTO button.

▷ ▷ ▷

ECON mode

The outside air that is flowing in does not dry up if the air-conditioning compressor is switched off.



Warning!

Risk of accident due to hampered vision. If the air-conditioning compressor is switched off, the windows may mist up.

- ▷ Do not switch off the air-conditioning compressor in damp weather.

Switching air-conditioning compressor off

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

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

- ▷ Press ECON button **M**.
The ECON logo appears on the air-conditioning display panel.
The air-conditioning compressor is switched off.

Switching air-conditioning compressor on

- ▷ If the interior temperature is too high:
Press ECON button **M** or
Press AUTO button **C**.

Information on air-conditioning compressor

The air-conditioning compressor:

- Can switch off briefly if engine is under an extreme load to ensure sufficient engine cooling.
- Switches off automatically at temperatures below approx. 3°C and cannot be switched on, even manually.
- Operates most effectively with windows closed.

If the car has been in the sun for a long time, however, it is a good idea to ventilate the interior briefly with the windows open.

Notes on operation

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 ("LO"), switch off the air-conditioning compressor and have the fault remedied at an authorized Porsche dealer.

REST mode

Using engine residual heat

The residual heat of the engine can be used to heat the interior up to 20 minutes after the ignition has been switched off.

- ▷ Press REST button **N**.
The air-conditioning settings cannot be changed in REST mode.

Ending the function

- ▷ Press REST button **N**.

Note on operation

If the battery positive voltage is too low, REST mode is automatically ended.

- ▷ Please observe the chapter "WARNING LIGHTS AND WARNING MESSAGES" on Page 112.



Control panel for air-conditioned areas – front and rear

- A - Windshield defroster
- B - Heated rear window
- C - AUTO button (automatic mode)
REST button (engine residual heat)
- D - Recirculated air, automatic recirculated air
- E - Temperature sensor
- F - Air-conditioning display
- G - Air-quantity button, left
- H - Temperature button, left
- I - Air to windshield, left
- K - Air to left central and side vents
- L - Air to footwell, left
- M - Setting for air-conditioned areas, rear
- N - ECON button (air-conditioning compressor off/on)
- O - Air to windshield, right
- P - Air to right central and side vents
- Q - Air to footwell, right
- R - Temperature button, right
- S - Air-quantity button, right

Automatically Controlled Four-Zone Air Conditioning

Depending on various factors (e.g. ambient temperature, sunlight, air quality), the air-conditioning system controls the preset interior temperature fully automatically.

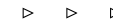
Temperature, air quantity and air distribution can be set individually for the front left, front right, rear left and rear right air-conditioned areas.

If necessary, the automatic system can be manually influenced. This individual adjustment is shown on the air-conditioning display panel.

Display

The air-conditioning display panel shows the following:

- Air quantity
- Selected interior temperature
- Individual settings
- Time that is identical to that shown in the instrument panel.





Control panel for air-conditioned areas at the rear

- C - AUTO button (automatic mode)
- F - Air-conditioning/seat heating display
- G - Air-quantity button, left
- H - Temperature button, left; seat heating, left
- I - Air to vent, left door post
- K - Air to left central vent (center console)
- L - Air to footwell, left
- O - Air to vent, right door post
- P - Air to right central vent (center console right)
- Q - Air to footwell, right
- R - Temperature button, right; seat heating, right
- S - Air-quantity button, right
- T - Seat heating off/on

Seat heating

When the seat heating is switched on, the air conditioning display switches to seat heating mode for approx. 10 seconds.

- ▷ Please observe the chapter "HEATED SEATS – FRONT AND REAR" on Page 40.

Childproof locks

If the childproof locks for the rear power windows are activated, the rear control panel for the air conditioning is locked at the same time.

Automatic mode

You can switch to automatic mode for the front and rear air-conditioned areas, independently of one another.

- ▷ Press AUTO button **C** on the front or rear control panel.
The indicator light in button **C** of the front control panel and the Auto indication in the rear control panel are lit.
Air quantity and distribution are automatically controlled and variations are compensated.

Note on operation

If necessary, the automatic system can be manually influenced.

This setting is retained until the appropriate function button is pressed again or the AUTO button is pressed.

Switching MONO function on

The temperature settings for the driver's side can be accepted for the entire vehicle.

- ▷ Press AUTO button **C** for 2 seconds.
The MONO logo appears on the air-conditioning display panel.

Ending MONO function

- ▷ Press AUTO button **C** for 2 seconds **or**
- ▷ Change the settings in the air-conditioned areas.

Setting temperature

To suit personal comfort, the interior temperature for each of the four air-conditioned areas can be adjusted between 16°C and 29.5°C.

Recommendation: 22°C

- ▷ Push temperature button up or down.
Button **H**:
Left air-conditioned area at the front or rear.
Button **R**:
Right air-conditioned area at the front or rear.
The selected temperature is shown on the display above the button.

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

If the preselected temperature is changed, the air quantity blowing out can adjust automatically in automatic mode.

The desired temperature is reached more quickly this way.



Setting air quantity

The air quantity can be selected individually for each of the four air-conditioned areas.

- ▷ Push button for air quantity up or down.
Button **G**:
Left air-conditioned area at the front or rear.
Button **S**:
Right air-conditioned area at the front or rear.
The selected air quantity is shown in a bar display on the display above the button.

Press AUTO button **C** to return to automatic mode.

If the air quantity on the front control panel was reduced so much that "OFF" appears on the display, the outside-air supply is interrupted.

Warning!

Risk of accident due to hampered vision caused by misted windows. If the air quantity is "OFF", the windows may mist up.

- ▷ Push button **G** up (to increase air quantity).





Defrosting the windshield

- ▷ Press button **A** on the front control panel. Indicator light lights up. The air flows to the windshield and the front side windows. The windshield is demisted or defrosted as quickly as possible.

Ending the function

- ▷ Press button **A** again **or** Press the AUTO button.



Switching automatic circulating-air mode on

- ▷ Press button **D** on the front control panel once. Indicator light lights up. Control of the outside-air supply depends on the air quality.

Note

The recommended operating mode is automatic circulating-air mode.



Switching circulating-air mode on



Warning!

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

- ▷ Only select circulating-air mode for short periods.
- ▷ If windows mist up, end circulating-air mode by pressing the circulating-air button again and selecting the function "Defrost windshield".

- ▷ Press button **D** on the front control panel twice. Indicator light lights up. The outside-air supply is interrupted and only the inside air is circulated.

Note on operation

When the air-conditioning compressor is switched off manually or automatically, circulating-air mode ends after approx. 3 minutes.



Air to windshield

The air quantity can be selected individually for each of the four air-conditioned areas.

- ▷ Press button **I**. The air flows to the windshield.



Air to central and side vents

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



Air to footwell

- ▷ Press button **L**. The air flows to the footwell.

Ending air distribution functions

- ▷ Press the relevant button again **or**
- ▷ Press the AUTO button.

ECON mode

The outside air that is flowing in does not dry up if the air-conditioning compressor is switched off.



Warning!

Risk of accident due to hampered vision. If the air-conditioning compressor is switched off, the windows may mist up.

- ▷ Do not switch off the air-conditioning compressor in damp weather.

Switching air-conditioning compressor off

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

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

- ▷ Press ECON button **N** on the front control panel.
The air-conditioning compressor is switched off.

Switching air-conditioning compressor on

- ▷ If the interior temperature is too high:
Press ECON button **N** or
Press the AUTO button.

Information on air-conditioning compressor

The air-conditioning compressor:

- Can switch off briefly if engine is under an extreme load to ensure sufficient engine cooling.
- Switches off automatically at temperatures below approx. 3°C and cannot be switched on, even manually.
- Operates most effectively with windows closed.
If the car has been in the sun for a long time, however, it is a good idea to ventilate the interior briefly with the windows open.

Notes on operation

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 ("LO"), switch off the air-conditioning compressor and have the fault remedied at an authorized Porsche dealer.

AUTO REST mode

Using engine residual heat

The residual heat of the engine can be used to heat the interior up to 20 minutes after the ignition has been switched off.

- ▷ Press AUTO/REST button **C** on the front control panel.
The air-conditioning settings cannot be changed in REST mode.

Ending the function

- ▷ Press AUTO/REST button **C**.

Note on operation

If the battery positive voltage is too low, REST mode is automatically ended.

- ▷ Please observe the chapter "WARNING LIGHTS AND WARNING MESSAGES" on Page 112.



Controlling rear air-conditioned areas with the front control panel

- ▷ Press button **M**.
Symbol appears on the display.
The rear air-conditioned areas can be controlled from the front control panel.

Ending the function

- ▷ Press button **M** again.



- A - "-" button
- B - TIMER button
- C - ON/OFF button
- D - "+" button

Parking Heater



Danger!

Risk of poisoning due to carbon monoxide (CO). The parking heater consumes fuel.

- ▷ Switch off the parking heater before refuelling.
- ▷ Do not operate the parking heater in enclosed spaces (e.g. a garage).

The parking heater is operated using the following buttons on the front air-conditioning control panel:



Switch parking heater on and off
Activate program

TIMER

Start programming
Call memories



Set ON times
Activate heating function



Set ON times
Activate ventilating function

Notes on operation

The parking heater is ready for use regardless of the ignition key position.

The parking heater runs for 30 minutes. It then switches itself off automatically.

When the parking heater is running, the remaining running time is shown on the display panel.



Switching parking heater on and off

Switching on

- ▷ Press ON/OFF button **C**.
The programmed parking heating or parking ventilation function is switched on.

Switching off

- ▷ Press ON/OFF button **C** again.

Note on operation

- ▷ After switching off the parking heater using ON/OFF button **C** wait for at least 2 minutes before you press the button again.
The combustion chamber is cleaned.



- E** - Parking ventilation symbol
- F** - Memory symbol
- G** - ON time symbol
- H** - Parking heating symbol
- I** - ON time

Programming the parking heater

The parking heater has three independent memories for programming the ON times. The ON time, together with the associated parking heating or parking ventilation function, can be programmed in each memory.

Note on operation

Only one memory can be active at any one time.

Programming function

1. Switch ignition off.
2. Press **TIMER** button **B** on the front air-conditioning control panel.
The symbols for the parking heating and parking ventilation functions flash on the display.
3. Select function.
Press “+” button **D** for parking heating or “-” button **A** for parking ventilation.
If no other entry is made within 10 seconds, the display returns to its initial status. The selected function is retained and is activated when the parking heater is next turned on.

Programming ON times

4. Select the memory using **TIMER** button **B**.
TIMER button **B** must be pressed 10 seconds after the function has been set, otherwise the display returns to its initial status.
5. Set ON time using the “+” and “-” buttons (**A** and **D**).
Pressing the buttons adjusts the time on a minute-by-minute basis. If the button is kept depressed, the time is adjusted faster.
ON times are only valid for 24 hours.
6. Press **ON/OFF** button **C**. The current memory is active.
The starting time is displayed for 2 minutes after **ON/OFF** button **C** has been pressed. The display then goes out.

▷ ▷ ▷

Activating the memory

ON times are only valid for 24 hours. The program must be reactivated for every subsequent run.

1. Switch ignition off.
2. Press TIMER button **B**.
3. Select function.
Press "+" button **D** for parking heating or "-" button **A** for parking ventilation.
4. Select the memory using TIMER button **B**.
The ON time that was last saved is displayed.
5. Press ON/OFF button **C**.
The program is reactivated.
The starting time is displayed for 2 minutes after ON/OFF button **C** has been pressed.
The display then goes out.

Parking heater faults

In the event of faults in the parking heater, no function symbol appears on the display – only the remaining running time is shown. The display darkens completely after 30 seconds.

- ▷ Have the parking heater checked at an authorized Porsche dealer.

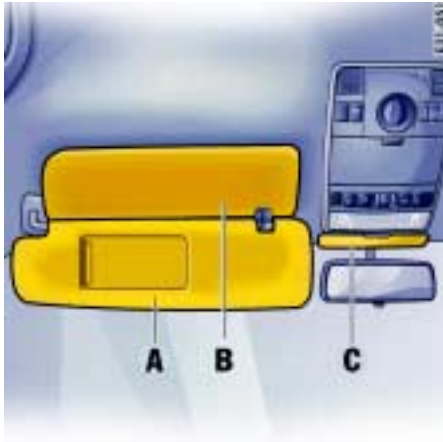
In the event of a serious accident, the parking heater switches off automatically for safety reasons.

The parking heater is not ready for operation.

- ▷ Please consult an authorized Porsche dealer.

If the temperature rises, the overheating protection switches the parking heater off automatically. The parking heater is not ready for operation.

- ▷ Please consult an authorized Porsche dealer.



Note on operation

Please note that sun visor **B** must be swivelled upwards before swivelling back sun visor **A**. Otherwise, sun visor **B** can no longer be swivelled upwards.

Sun Visors



Warning!

Risk of injury.

- ▷ Keep the sliding cover closed while driving.
- ▷ Swing sun visor **A** down to prevent dazzle from the front.
You can cover the gap above the interior mirror using the small sun visor **C**.
- ▷ If you are dazzled from the side, unclip sun visor **A** from the inner bracket and swivel it round so that it is in front of the door window. You can also swivel sun visor **B** downwards.



Make-up mirror

The make-up mirror on the rear of the sun visor is closed with a sliding cover.

- ▷ The make-up mirror illumination is switched on automatically when the sliding cover is opened (**arrow**).



Pulling out sun blinds

- ▷ Pull out sun blind (**arrow**) and engage in holders **A**.

Retracting sun blinds

- ▷ Disengage the sun blind from holders **A** and carefully guide it back into the retractor roller.

Sun Blinds, Rear Side Windows

The sun blinds in the rear door trim panels can be pulled out.



Caution!

Risk of damage.

- ▷ Pull out sun blinds during the journey only when door windows are closed.
-



- A, E** - Switch for reading lights
- B** - Button for dimming the comfort lighting
- C** - Switch for interior light
- D** - Switch for switching off all interior lights

Interior Lighting

Note on operation

- ▷ If the interior lights were switched off with switch **D**, switch **D** must be pressed again before the interior lights are switched on.

Reading lights, front

Switching on

- ▷ Press button **A** or **E**.

Switching off

- ▷ Press button **A** or **E** or
- ▷ Press switch **D**.
All interior lights are switched off.

Interior light, front

Switching on

- ▷ Move switch **C** to the left.

Switching on and off automatically

- ▷ Move switch **C** to the right.
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 light goes out immediately as soon as the ignition key is inserted in the ignition lock or the vehicle is locked.

Switching off

- ▷ Move switch **C** to center position **or**
- ▷ Press switch **D**.
All interior lights are switched off.



Reading lights, rear right

Rear reading lights

Switching on

- ▷ Move toggle switch forward.

Switching on and off automatically

- ▷ Move toggle 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 light goes out immediately as soon as the ignition is switched on or the vehicle is locked.

0 Switching off

- ▷ Move toggle switch back.
- ▷ Operate switch **D** for switching off all interior lights.
All interior lights are switched off.



A - Button for dimming the comfort lighting

Comfort Lighting

The footwell and door panel lighting improve your orientation inside the vehicle when it is dark. These lights are switched on when the vehicle is unlocked and switched off again automatically or dimmed to the preset value when the vehicle is locked.

Dimming (adjusting the brightness of) the comfort lighting

Once the last door is closed, the footwell and door panel lights are dimmed to the set value.

The comfort lighting is dimmed using button **A** in the front roof console.

- ▷ Hold down button **A** until the level of brightness that you require is reached.

Door-Surrounding Lighting

The door-surrounding lighting enables passengers to enter the vehicle safely. Obstacles on the ground (e.g. puddles) can be identified more easily.

The area in front of the vehicle is illuminated with the following lights when the vehicle is unlocked by remote control or by Porsche Entry & Drive:

- Dipped beam
- Lights in the door mirrors
- Side marker light
- Number plate lights.

The door-surrounding lighting switches off after the Coming Home light (light that is used during twilight hours) that has been set on the multi-purpose display has expired or when the ignition is switched on.

- ▷ Please observe the chapter "LIGHTING" on Page 110.

Coming Home Function (Off Delay)

The following lights remain switched on for a certain period to allow you to get out of the vehicle safely and with the best possible view at dusk or in darkness:

- Low beam
- Lights in the door mirrors
- Side marker light
- Number plate lights.

The lights are switched off when the vehicle is locked or, at the latest, after the Coming Home light that has been set on the multi-purpose display has expired.

- ▷ Please observe the chapter "LIGHTING" on Page 110.

Sliding/Lifting Roof

The electric sliding/lifting roof is made of single-sheet safety glass. It is equipped with a sliding-roof cover that can be infinitely adjusted manually to protect against the sun.

The sliding/lifting roof is operated using a knob in the roof console.

Warning!

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

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

Readiness for operation of the sliding/lifting roof

- With ignition switched on.
- With ignition key withdrawn until door is first opened, but only for a maximum of 10 minutes.

Readiness function of the sliding/lifting roof switches off after 10 minutes

If the vehicle is unlocked, the sliding/lifting roof can no longer be operated after 10 minutes (to save the vehicle battery). The power supply is switched back on when the ignition is switched on or the engine started.



- A** - Closes sliding/lifting roof completely
- B** - Opens sliding/lifting roof to comfort setting
- C** - Opens sliding/lifting roof completely
- D** - Opens sliding/lifting roof in lift position

Note on operation

Using the automated presetting system, every usable sliding/lifting roof position can be controlled directly with the knob.

▷ ▷ ▷

A - Closing sliding/lifting roof completely

- ▷ Turn knob to switch position **A**.

Note on operation

The sliding/lifting roof is equipped with a force limiter. If the sliding/lifting roof is obstructed during the closing process, the sliding/lifting roof opens again immediately.

Using the force limiter to close the sliding/lifting roof

- ▷ Remove the obstruction.
- ▷ Turn knob to position **A** again.

Comfort function when locking/unlocking the vehicle

- ▷ Hold the car key in the door lock in the locking position until the windows and the sliding/lifting roof have reached the desired position.

B - Opening sliding/lifting roof to comfort setting

- ▷ Turn knob to switch position **B**.

The sliding/lifting roof opens in switch position **B** until it reaches the best position from the point of view of noise. It can be opened fully, however, if you continue to turn the switch beyond the limit to position **C**.

C - Opening sliding/lifting roof completely

- ▷ Turn knob beyond stop position **B** to switch position **C**.
This requires a somewhat greater effort.
Once released, the knob rebounds to position **B**.

D - Lifting sliding/lifting roof

- ▷ Turn knob between switch positions **A** and **D** until it reaches the required position. The roof is lifted completely in switch position **D**.

Emergency operation of sliding/lifting roof

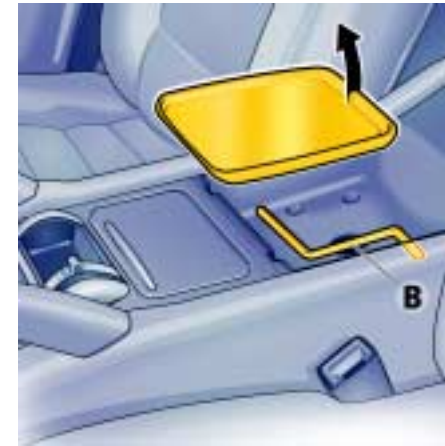
If the sliding/lifting roof is defective, this can be closed or opened manually.



Warning!

Risk of serious personal injury and damage to the sliding/lifting roof during emergency operation.

- ▷ Take care to ensure that nobody can be injured when the sliding/lifting roof is operated.
- ▷ During and after emergency operation, the sliding/lifting roof may no longer be operated with the rocker switch.



1. Open the glasses case in the roof console (**arrow**).
2. Unclip cover **A**.

3. Remove key **B** from the lower oddments tray (underneath the rubber mat) in the center console.

▷ ▷ ▷



4. Insert the key in opening **C**. This requires a somewhat greater effort.
 5. Close sliding/lifting roof
To close the roof – turn to the right.
To open the roof – turn to the left.
 6. Remove the key and return it to the oddments tray.
 7. Clip in cover.
- ▷ Have the fault remedied at an authorized Porsche dealer.

Parking Aids

ParkAssist

ParkAssist provides a visual and acoustic indication to the driver of the distance between the vehicle and a large obstacle.

ParkAssist is switched on automatically when the engine is started and remains active up to a speed of approx. 14 km/h (9 mph).

ParkAssist is switched off automatically at high speed. ParkAssist is switched on again automatically when the speed drops below approx. 14 km/h (9 mph).

The selector lever position determines activation levels for ParkAssist and the corresponding area that is monitored.

Selector lever position:

- **P** – ParkAssist is **not** activated.
- **R, N** – ParkAssist is activated for the front **and** rear areas.
- **D, M** – ParkAssist is activated for the front area.

Danger!

Risk of serious personal injury or death. ParkAssist cannot detect small objects such as children and pets. Even when using ParkAssist, the driver is still responsible for taking due care when parking and when assessing obstacles.

- ▷ Make sure that no persons especially small children, animals or obstacles are within the maneuvering area.



Switching ParkAssist on and off

- ▷ Switch ParkAssist on and off using button **A** in the roof console. When ParkAssist is switched off, the indicator light in the button lights up.

Note on operation

It is a good idea to switch off ParkAssist when driving off-road and on unpaved surfaces.

▷ ▷ ▷



Front ultrasound sensors

Sensors

Six ultrasound sensors in the front and rear bumpers measure the distance to the closest obstacle.

- Range of outer sensors (front and rear): approx. 24 in. or 60 cm
- Range of front middle sensors (**arrow**): approx. 48 in. or 120 cm



Rear ultrasound sensors

- Range of rear middle sensors (**arrow**) (only in vehicles **without** spare wheel bracket): approx. 59 in. or 150 cm
- Range of rear middle sensors (only in vehicles **with** spare wheel bracket): approx. 48 in. or 120 cm

Obstacles cannot be detected in the "blind" sensor area (above and below the sensors).

Maintenance note

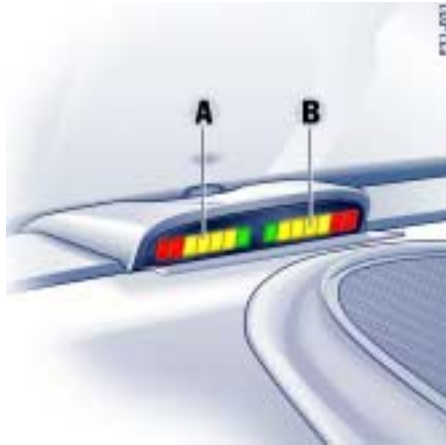
- ▷ The sensors must always be kept free of dust, ice and snow in order to ensure that they are fully functional.
- ▷ Do not damage sensors by abrasion or scratching.
- ▷ Maintain sufficient distance when cleaning with steam-jet units. The sensors will be damaged if the pressure is too high.

Note on operation

The rear ultrasound sensors may not function correctly if tires that have not been recommended by Porsche are fitted on the spare wheel bracket.

If the spare wheel bracket is open, this may impair the function of the rear ultrasound sensors.

In vehicles that have air suspension with level control and height adjustment, the system may not recognise obstacles near the ground at terrain level or special terrain level.



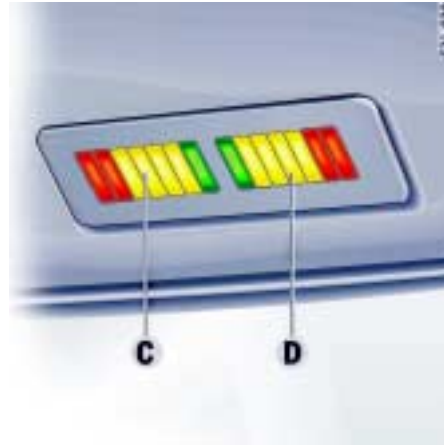
A - Front display – left monitoring area
B - Front display – right monitoring area

Warning indicators, signal tones, distances

The warning indicator for the front area is located on the dashboard.

The warning indicator for the rear area is located in the rooflining at the rear of the loadspace.

The warning indicators for the various monitoring areas (left and right) are subdivided respectively into one green, 4 yellow and 2 red light segments.



C - Rear display – right monitoring area
D - Rear display – left monitoring area

If ParkAssist is activated, the **green light segments** of the active warning indicators are lit up continuously.

If the vehicle approaches an obstacle that has been detected by the sensors, one or more of the yellow or red light segments lights up, depending on the distance to the obstacle.

If the **first yellow light segment** lights up, the obstacle is still 48 in. or 120 cm (to the front) or 48 in. to 59 in. or 120 to 150 cm (to the rear) away.

A brief signal tone sounds when reversing.

An **intermittent tone** sounds when the distance becomes less than approx. 24 in. or 60 cm. The **fourth yellow light segment** lights up.

A **continuous tone** sounds when the distance becomes less than approx. 10 in. or 25 cm (on vehicles with trailer coupling: approx. 14 in. or 35 cm). The **second red light segment** lights up.

If the obstacle is approached even closer, the system may not be able to recognize the obstacle any longer.

▷ Set the radio volume so that the signal tones are not drowned out.

You can have the volume of the signal tones adjusted to your own requirements at your authorized Porsche dealer.

Note on operation

If the obstacle is approached even closer after the continuous tone sounds and the second red light segment lights up, the system may not be able to recognize the obstacle any longer.

▷ ▷ ▷

Limits of ultrasonic measurement

- ParkAssist 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 without warning tone

All red light segments of the active warning indicators light up when there is a **temporary fault** in ParkAssist.

Note

Correct operation is no longer ensured if there is a temporary fault (e.g. caused by ice formation or heavy soiling on the sensors).

The system detects the temporary fault. All light segments light up until a speed of 14 km/h (9 mph) is reached.

ParkAssist is ready for operation again when the interference has been eliminated.

Fault indication with warning tone

In the event of a **long-lasting fault** in ParkAssist, the red light segments of the active warning indicators light up **and** a continuous tone sounds for three seconds after a transmission range has been selected.

Possible causes

- Defect or system fault.
- ▷ Switch ParkAssist off.
When ParkAssist is switched off, the indicator light in the button lights up.
- ▷ Please have the fault remedied at an authorized Porsche dealer.

Driving with a trailer

The ParkAssist rear monitoring area is switched off when the trailer's power supply is plugged in.



A - Control switch for door mirror adjustment
C - Passenger mirror setting

Swivelling down mirror glass on the passenger's side

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

- ▷ Please observe the chapter "MIRRORS" on Page 109.

Preconditions

- Vehicle must be equipped with seat memory.
- Control switch **A** must be turned to position **C** (passenger mirror's setting).
- Reverse gear must be engaged.

Moving mirror glass to its initial position with reverse gear engaged

The mirror glass swivels to its initial position when:

- The car is shifted out of reverse gear **or**
- The position of the control switch for the door mirror setting is changed.



A - Programmable keypad
B - Light-emitting diode for status identification

Garage Door Opener

The programmable garage door opener in your Porsche replaces up to three original hand-held transmitters used to operate a variety of devices (e.g. garage door, gate to the property, alarm system).

You have the option of programming each individual key in key pad **A** with an original hand-held transmitter frequency.

Warning!

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

- ▷ When using the garage door opener, 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.

To operate the device in question (e.g. garage door, gate to the property, alarm system):

- ▷ Press the relevant button in keypad **A**. Light-emitting diode **B** lights up during the signal transfer.

Notes on operation

- ▷ Always use the garage door opener in the direction of travel. Otherwise, range restrictions cannot be ruled out.
- ▷ Before selling the vehicle, delete thprogrammed signals in keypad **A** of the garage door opener.
- ▷ 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 garage door opener signals to the keys

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

Garage door opener with fixed code system

1. Point the original transmitter at the position marked.
2. Press the button of the original hand-held transmitter and at the same time the key to be allocated on keypad **A**.
3. Keep both keys depressed until light-emitting diode **B** starts to flash (first slowly and then quickly).
Only release both keys when light-emitting diode **B** flashes quickly.
The rapidly flashing light-emitting diode **B** confirms that the new frequency signal was programmed successfully.
4. Repeat steps 1 to 3 to allocate signals for the garage door opener to other keys.

Garage door opener with changeable code system

1. Allocate the required keys as for the systems with fixed code (points 1 to 3).
2. To synchronize 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 allocated key in keypad **A** twice (in some devices you must press the allocated key a third time to complete the setting).
4. Repeat steps 1 to 3 to allocate signals for the garage door opener to other keys.

Note

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

Deleting programmed signals

- ▷ Keep the two outer keys of key pad **A** depressed for approx. 20 seconds until light-emitting diode **B** begins to flash.
The programmed signals are deleted.



Ashtray, Front

Warning!

Danger of fire.

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

Opening

- ▷ Press ashtray lid briefly.

Emptying

- ▷ Move unlocking button **A** to the right; the ashtray insert pops out.
- ▷ Once you have emptied the ashtray, replace the insert and push it down until it clicks audibly into place.

Cigarette Lighter

Warning!

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

- ▷ Do not leave children in the car unattended.
- ▷ Never touch the heating element or sides of the lighter.
- ▷ Hold the lighter by the knob only.

The cigarette lighter is ready for use regardless of the ignition lock position.

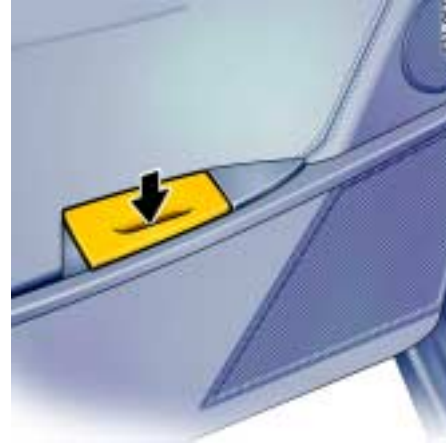
Lighter, front

- ▷ Press ashtray lid briefly. Ashtray opens independently.
- ▷ Press lighter into the receptacle (**arrow**). When the element is red hot the lighter jumps back to its initial position.



Lighter, rear

- ▷ Press cover in the center console briefly. Cover opens independently.
- ▷ Press lighter into the receptacle (**arrow**). When the element is red hot the lighter jumps back to its initial position.



Ashtray, rear



Warning!

Danger of fire.

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

Depending on how the vehicle is equipped, an ashtray can be installed in the rear door panels.

Opening

- ▷ Press ashtray lid briefly.

Emptying

- ▷ Open ashtray cover and press carefully to the door trim panel. The insert is raised slightly.
- ▷ Remove and empty insert.

Car Audio Operation/Tips

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

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.

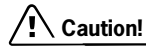
Station swapping

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



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.



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 personal injury or death.

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-dealer-ship 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 external antennas before using an automatic car-wash.

Mobile Phones and 2-Way Radios

- ▷ Observe the telephone manufacturer's operating instructions before putting a telephone into operation.
- ▷ Please observe the applicable national regulations regarding telephone calls during driving.

Safety notes!

- ▷ For reasons of road safety, only telephone using the hands-free unit.
- ▷ To prevent any possible risk to health: Use telephones or 2-way radios with integral radio antennas in the car only if an external antenna is connected.

Installation of mobile communications systems (car telephone, 2-way radio, etc.) requires approval and should be performed only according to Porsche installation specifications in a specialist workshop.

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. It is familiar with the technical requirements for installing devices of this kind.

Incorrectly installed equipment or antennas as well as telephones and 2-way radios without an external antenna may interfere with the vehicle-electronics as a result of radio transmission.

- ▷ Use telephones or 2-way radios only with a connected external antenna.
-

Hands-free microphone

Hands-free microphones installed at the factory must be adapted to the type of telephone in use. Your authorized Porsche dealer will be pleased to advise you.

Reception quality

The reception quality of your telephone changes continuously while you drive. Interference from buildings, terrain and the weather is unavoidable. Comprehensibility can be adversely affected by external noise (e.g. engine and wind noise), particularly when hands-free equipment is used.

Porsche Communication Management (PCM)



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 the 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
 - ▷ If it is necessary to operate these components while the vehicle is in motion, use the function keys on the multi-functional steering wheel.
-
- ▷ Refer to the separate operating instructions before putting the PCM into operation.

When put into operation for the first time, a distance of approx. 5 km (3 miles) 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/winter 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 is operational once more.

Radio

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

The reception conditions of your car radio change continuously while you drive. Interference from buildings, terrain and the weather is unavoidable. FM stereo reception is particularly susceptible to varying reception conditions. To reduce interference, you can switch the radio to mono mode or tune to a different FM stereo station.

Electronic accessories should only be retrofitted by your authorized Porsche dealer. Accessories which have not been tested and approved by Porsche may impair radio reception.

Fire Extinguisher

In vehicles with a fire extinguisher, the latter is accommodated in the drawer underneath the passenger's seat.

- ▷ 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 on the fire extinguisher.
- ▷ The functional ability of the fire extinguisher should be checked by a specialist workshop every 1 to 2 years.
- ▷ After use, have the fire extinguisher refilled.

Storage



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 in open oddments trays.
- ▷ Secure load in luggage compartment using the safety net and luggage compartment cover.
- ▷ Always keep the oddments trays closed while dri

Storage options

- In the glasses case in the roof console
- In the glove compartment, pen holder, coin holder
- In the front and rear armrests
- In the drawer underneath the passenger's seat
- In the storage compartments at the sides of the luggage compartment
- In the door trim panel
- In the center console, front and rear
- On the backrests of the front seats
- Coat hook on the rear grab handles
- Under the load compartment floor
- In the front and rear cupholders.



Glasses case in the roof console

Sunglasses (for example) can be stored in this storage compartment.

Opening

- ▷ Press button (**arrow**).

Closing

- Close the lid until it clicks audibly into place.



Opening

- ▷ Press button **A** and open cover.

Locking

- ▷ Always lock button **A** with the vehicle key to secure the contents from unauthorized access.

Glove compartment



Warning!

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

- ▷ Keep the glove compartment closed while driving.

A drawer, designed to hold the vehicle folder, is located in the glove compartment.



B - Thumb wheel for cooling the glove compartment
C - Coin holder
D - Holder for pens

○ Cooling the glove compartment.

- ▷ Rotate thumb wheel **B** leftwards.

● Switch cooling off

- ▷ Rotate thumb wheel **B** rightwards.



Storage trays in the armrest between the front seats

Two storage trays are located in the armrest.

Opening the top tray

- ▷ Press button **A** and lift the cover.



Opening the lower tray

- ▷ Press button **B** and lift top tray with the cover closed.



Storage tray in the rear armrest

One storage tray is located in the armrest.

Opening the storage tray in the armrest

1. Fold down the armrest completely.
2. Press button **C** and lift the cover.





Drawer underneath the passenger's seat

There is room for the fire extinguisher in the drawer underneath the passenger's seat.

Opening

- ▷ Lift the unlocking handle and pull out the drawer.

Closing

- ▷ Close the drawer until it clicks audibly into place.



Side storage compartments in the luggage compartment

Depending on how the vehicle is equipped, there is an additional storage option in the left-hand storage compartment.

Space is provided for the warning triangle and first aid kit in the right-hand storage compartment.

Opening the storage compartment

- ▷ Pull off the cover on the handle recess.

Closing the storage compartment

- ▷ First, insert the cover at the bottom and then close it until it clicks audibly into place.

! Caution!

Risk of damage.

- ▷ Because of the heat, the right-hand storage compartment cannot be used as such in vehicles that have air suspension with level control and height adjustment.

Cupholder

You can place drinks cans and cups in the cupholder.

- ▷ Keep the cupholder closed while driving.

Warning!

Risk of accident, scalding or damage due to spilling drinks.

- ▷ Only use cupholder when safe to do so it is.
- ▷ Only use containers which fit.
- ▷ Never put overfull containers in the cupholder.
- ▷ Never use hot drinks.



Opening front cupholder

- ▷ Open shutter **A** (arrow).



Removing cupholder insert

The cupholder insert can be removed for cleaning. Removing the insert makes an additional oddments tray available.

- ▷ Open shutter **A**.
- ▷ Press together the cupholder insert at the two engagement recesses **B**.
- ▷ Remove the cupholder insert.

▷ ▷ ▷



Opening rear cupholder

- ▷ Press on the cover of the cupholder (**arrow**).

Closing rear cupholder

- ▷ Close and engage the cupholder.

Rear Lid

The equipment features "Porsche Entry & Drive" and "spare wheel bracket" affect operation of the rear lid.

- ▷ Please observe the chapter "PORSCHE ENTRY & DRIVE" on Page 24.
- ▷ Please observe the chapter "SPARE WHEEL" on Page 282.



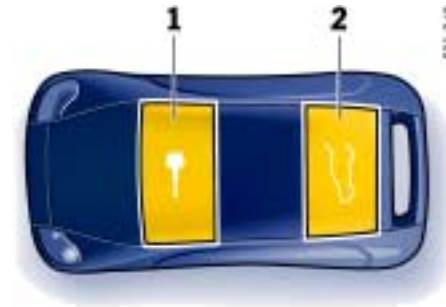
Risk of poisoning. Exhaust gases can enter the passenger compartment when the rear lid is open.

- ▷ Always keep the rear lid closed when the engine is running.
- ▷ Always keep the rear lid closed while driving.

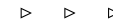


Unlocking rear lid

- ▷ Pull button **A** in the driver's door **or**



- ▷ Briefly press button **2** on the remote control. If it is not opened, the rear lid will lock automatically after 30 seconds.





Opening rear lid

On vehicles with spare wheel bracket, the bracket must be swung aside before the rear lid can be opened.

- ▷ Please observe the chapter “SPARE WHEEL” on Page 282.
- ▷ Press unlocking handle (**arrow**) and open the rear lid.



Closing rear lid

Pull down the rear lid using the closing handle (**arrow**) and press the door closed until the lock engages audibly.

Power closing mechanism

Closing the rear lid requires less effort on vehicles equipped with a power closing mechanism.

Warning!

Danger of crushing. The rear lid is automatically pulled into the lock and locked.

- ▷ Make sure that your fingers are not under the rear lid.
- ▷ Keep foreign objects or limbs away from moving parts (latch striker) of the power closing mechanism.
- ▷ Do not leave children in the car unattended.



Rear Window



Danger!

Risk of poisoning. Exhaust gases can enter the passenger compartment when the rear window is open.

- ▷ Always keep the rear window closed when the engine is running.
- ▷ Always keep the rear window closed while driving.

Unlocking

- ▷ Briefly press button **2** on the remote control. The rear window can be opened with unlocking button **A**.

Opening

- ▷ Press unlocking button **A** or
- ▷ Press button **2** of the remote control for approx. 2 seconds. The rear window pops open.

Closing

- ▷ Lower the rear window and press it into the lock until it can be felt to engage and lock.



Engine Compartment Lid

Opening



Caution!

Risk of damage to engine compartment lid or windshield wipers.

- ▷ Make sure that the windshield wipers are not pulled out forwards when opening the engine compartment lid.
- ▷ Always switch the windshield wipers off (position **O**) before opening the engine compartment lid.
If the wiper arms are not in position **O**, they will automatically move to this position when the



engine compartment lid is opened. This will happen even if the ignition is off. The wiper arms remain in this position until the lid is closed and the wiper system is switched off and then on again.

1. Pull release lever (**arrow**). Hood is unlocked.
2. Unlatch safety catch **A**. Open the lid completely.
When the lid is open, the engine compartment is lit.

Closing



Warning!

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

- ▷ Should you notice at any time while driving that one of the lids is not secured properly, please stop immediately in a suitable place and close it.
The front lid may fly up impairing vision.
- ▷ Lower lid and let it fall into the lock.
If necessary, push the lid with the palm of your hand in the area of the lock.
- ▷ Check that the lid has correctly engaged in the lock.
If the lid is not closed properly, a message will be displayed on the multi-purpose display of the instrument panel while the vehicle is being driven.



Loadspace

The maximum permissible load on the loadspace floor is 400 kg or 880 lbs. The weight must be distributed evenly over the entire loadspace.

- ▷ Please observe the chapter "STOWING LOAD" on Page 180.

Opening loadspace floor

1. Pull handle **A** and lift the loadspace floor.



2. Unclip prop **B** and insert it into receiver **C** in the loadspace floor.

Closing loadspace floor

1. Lift the loadspace floor slightly and clip prop **B** into its holder.
2. Close the loadspace floor.



Tie-down rings

You can secure the load in the luggage compartment against slipping. Tie-down straps or the luggage net can be fastened to tie-down rings **D**.

- ▷ Make sure that all rings are equally loaded when securing a load.

Note on operation

The tie-down rings are not designed to restrain a heavy load in an accident.

Stowing Load



Safety notes!

An unsecured or incorrectly positioned load can slip out of place or endanger the vehicle occupants during braking, direction changes or in accidents.

Never transport objects which are not secured (accident, braking, curves).

- ▷ Always transport loads in the loadspace, never in the passenger compartment (e.g. on or in front of the seats).
- ▷ Support the load on the seat backrests whenever possible. Always lock the backrests into place.
- ▷ Place the load behind unoccupied seats whenever possible.
- ▷ Stow heavy objects as close to the front of the floor as possible, with lightweight objects behind them.
- ▷ The load must never project over the top edge of the seat backrest.
- ▷ Always protect the passenger compartment with a luggage safety net and a luggage compartment cover. Do not drive with objects on top of the luggage compartment cover.

- ▷ If the rear seats are not occupied, the backrests can be additionally secured with the safety belts. Simply cross the outer safety belts and insert each into the opposite buckle.
- ▷ Make sure that the load cannot damage the heating filaments of the rear window.

Luggage net

- ▷ Luggage must be stowed completely covered by the luggage net. The luggage net can prevent only lightweight objects from slipping.

Tie-down belts

- ▷ Do not use elastic belts or straps to tie down a load.
- ▷ Do not place belts and straps over sharp edges.
- ▷ Observe the directions for use and information for the tie-down equipment.
- ▷ Use only belts with a tear strength of at least 700 kg or 1543 lbs. and a maximum width of 25 mm or 1 in.
- ▷ Cross the belts over the load.

Driving

- ▷ The car's handling changes depending on the vehicle load. Adapt your driving style to the changed driving behaviour.
 - ▷ Do not exceed the maximum gross weight and the axle load.
 - ▷ Please observe the chapter "WEIGHTS" on Page 337.
 - ▷ Never drive with the rear window or rear lid open. Exhaust gases can enter the passenger compartment.
 - ▷ Adapt the tire pressure to the load.
 - ▷ Please observe the chapter "TIRE PRES-SURES, COLD" on Page 335.
-

Luggage Compartment Cover

The luggage can be protected against prying eyes with the luggage compartment cover.

- ▷ Always pull out the luggage compartment cover when transporting objects in the luggage compartment.
The luggage compartment cover is not designed to carry objects.
- ▷ Do not hang bags or objects on the support brackets **A**. The support brackets could break off.

Warning!

Danger of injury. During braking, direction changes or in an accident, objects can slide into the passenger compartment and endanger the occupants.

- ▷ Do not place objects on top of the luggage compartment cover.



Pulling out luggage compartment cover

- ▷ Pull out the cover by the handle and insert it into the guides on the left and right side walls of the luggage compartment.

Retracting luggage compartment cover

- ▷ Disengage the luggage compartment cover from the guides on the side walls and carefully guide it back into the retractor roller.



Remove luggage compartment cover

- ▷ Pull the release **B** back.
- ▷ Lift the cover at the right and remove.

▷ ▷ ▷



Installing luggage compartment cover

- ▷ Insert the cover into the receiver on the left side.
- ▷ Press the cover down into the receiver on the right side until it can be heard and felt to engage. Release **B** must point forwards.

Luggage Safety Net

- ▷ Please observe the chapter "STOWING LOAD" on Page 180.

The safety net can hold back only lightweight items during braking, direction changes or in an accident.



Warning!

Danger of injury. During braking, direction changes or in an accident, an unsecured load can slip and endanger the occupants.

- ▷ Always secure the passenger compartment with the luggage safety net.
- ▷ Always fasten the load at the tie-down rings.
- ▷ The load must never project over the top edge of the seat backrest.
- ▷ If the safety net was heavily stressed or damaged during braking or an accident, etc., have the luggage safety net and its bracket checked by an authorized Porsche dealer.

Permitted uses

Option 1



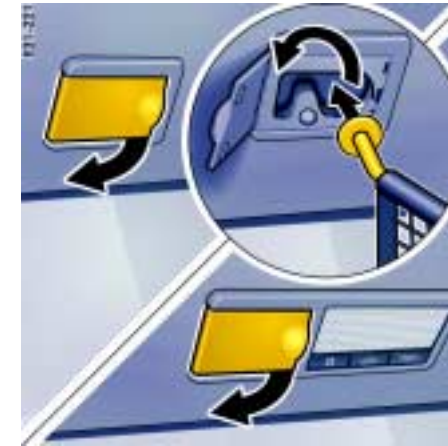
Option 2



Option 3



- ▷ Please observe the chapter "FOLDING REAR SEATS FORWARD" on Page 37.



Securing interior with luggage safety net

Pulling out luggage safety net

- ▷ Open covers of the luggage safety net brackets.
- ▷ Pull the luggage safety net out and engage the fastening hooks on the left and right sides into the rings on the ceiling. The luggage safety net fastening hooks can be pulled out at the sides.
- ▷ Make sure that the luggage safety net fastening hooks are properly engaged in the rings.

▷ ▷ ▷



Removing luggage safety net assembly from the rear seat backrest

- ▷ Open both rear doors.
 - ▷ Fold down the left seat backrest first, followed by the right seat backrest. The seat cushions need not be folded for this purpose.
 - ▷ Please observe the chapter “FOLDING REAR SEATS FORWARD” on Page 37.
1. Push the luggage safety net assembly in the **direction of the arrow**.
 2. Lift the luggage safety net assembly off.



Fastening luggage safety net assembly at the bottom of the rear seat backrest

- If you wish to make better use of the luggage space, you can fasten the luggage safety net assembly at the lower part of the rear seat backrest.
- ▷ Insert the luggage safety net assembly into receivers **A** and push it in up to the stop (**arrows**).

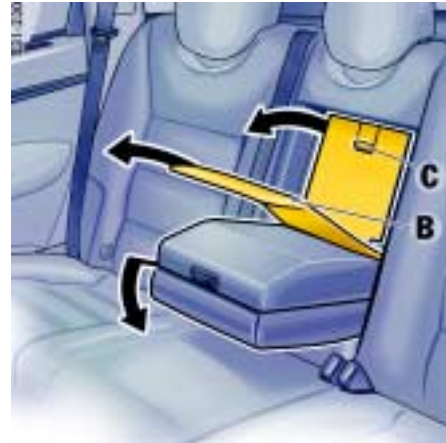


Ski Bag

Long objects such as skis can be transported in the passenger compartment, where they can be kept clean and protected against damage.

Loading ski bag

1. Press release button **A** on the lid of the through-load facility. Open the lid downward.



2. Fold down the armrest of the rear seat backrest.
3. Pull protective cover **B** off the Velcro strap at the top and lower it.
4. Press release button **C** on the lid of the through-load facility downwards and fold down the lid.



5. Pull out and unfold the ski bag.
6. Insert objects into the ski bag from the luggage compartment.

▷ ▷ ▷



Stowing ski bag

1. Empty ski bag.
2. Pull ski bag into the passenger compartment.
3. Put in the protective cover and secure it with the Velcro strap.
4. Close lid in the luggage compartment.
5. Carefully fold the ski bag and close the lid.

Note on operation

- ▷ Fold up the ski bag only when it is dry.

Securing load

- ▷ Secure the stowed objects with tightening belt **D**.
- ▷ Insert belt tongue into the buckle.

Roof Transport System

- ▷ Please follow the separate instructions for fitting the Roof Transport System.

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

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



Warning!

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

- ▷ Completely remove the Roof Transport System before using an automatic car wash – risk of damage to the vehicle.
- ▷ Do not exceed the permissible roof load of 220 lbs (100 kg), the permissible gross weight and the permissible axle loads. Please observe the chapter “WEIGHTS” on Page 337.
- ▷ Distribute load evenly, with heavy items as low as possible. Items of luggage must not project beyond the side of the load area.
- ▷ Fix and secure every item to the basic carrier with a rope or lashing strap (do not use elastic rubber tensioners).
- ▷ Before every journey, and at regular intervals during long trips, check that Roof Transport System and load are secure. Re-tighten if necessary and secure additionally by locking.

When the Roof Transport System is loaded, the maximum speed depends on the nature, size and weight of the load being carried.

- ▷ But never drive faster than 140 km/h (90 mph).
- ▷ With the basic carrier fitted and no load, do not exceed a maximum speed of 180 km/h (110 mph).

Adapt your driving style and speed to the changed conditions.

Nevertheless, Porsche recommends that you do not exceed the posted speed limit.

Driving, braking and steering behaviour change due to the higher center of gravity and the greater wind-resistant area. You should adapt your driving style appropriately.

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



833-014

- ▷ Ensure that all trailer equipment conforms to the appropriate classification for total gross trailer weight and tongue weight.
- ▷ Please observe the chapter "WEIGHTS" on Page 337.

Trailer Coupling

Warning!

Risk of accident.

- ▷ Follow the operating instructions for the trailer recommended by the trailer manufacturer.
- ▷ Do not modify or repair the trailer coupling.
- ▷ Before having new ADAPTER fitted, find out from your authorized Porsche dealer about the current authorization status.
- ▷ Use only ADAPTER makes tested and approved by Porsche.

Retrofitting

Have a trailer coupling retrofitted only by an authorized Porsche dealer. The dealer is familiar with the manufacturer's specifications and any necessary conversion measures.

Electrical connection

Your Porsche is equipped with a 7-pin connector **A** for the electrical connection to the trailer.

Warning!

Risk of accident. Failure to keep an electrical adapter clean may result in corrosion and affect operation of electrical lines, resulting in possible trailer brake system failure.

- ▷ Periodically inspect and clean adapter as needed.

Definitions

The towing capacity (gross weight of the trailer) is the sum of the trailer's empty weight and the weight of the load.

The vertical coupling load is the weight that the trailer drawbar exerts on the trailer coupling of the vehicle.

The rear-axle load is the vehicle weight on the rear axle plus the weight of the transported load and the vertical coupling load of the trailer.

The gross weight of the vehicle and trailer is the sum of the weight of the towing vehicle and the weight of the trailer.

- ▷ Never exceed the permissible individual weights.

Safety notes!

Driving with a trailer

- ▷ Always observe the permissible towing capacity, vertical coupling load and rear-axle load. Please observe the chapter "WEIGHTS" on Page 337.
- ▷ When connected, the trailer must always be horizontal behind the towing vehicle. If necessary, use a trailer with an adjustable drawbar.
- ▷ When the vehicle is driven in the mountains, the engine output decreases as altitude increases. The maximum weights stated are the values at sea level. The total weight of the car-trailer combination must therefore be reduced by 10% for each increment of 1,000 metres or 3,280 ft. altitude. A fractional increment counts as the full 1,000 metres. Please take this into consideration when planning your route.

Distributing the load

- ▷ Distribute the load in the trailer so that heavy objects are as close to the axle as possible. Always safeguard all objects against slipping and tie them down securely.
- ▷ You should make the best possible use of the trailer coupling's rated vertical coupling load when loading the trailer, but never exceed it.

Tire pressure

- ▷ Select the vehicle tire pressure for full load when towing a trailer.
- ▷ Please observe the chapter "Tire pressure tables".
- ▷ Check the tire pressure of the trailer's wheels according to the manufacturer's instructions.

Door mirrors

- ▷ If the width of the trailer obstructs your view of the traffic behind the trailer, you must have additional door mirrors fitted.

Headlights, lights

- ▷ Always check the headlight adjustment before driving with a trailer. If necessary, correct with the headlight beam adjustment function.
- ▷ Check whether the plug of the trailer is plugged into the towing vehicle and whether all lights function.

▷ ▷ ▷

Driving with a trailer

The maximum permitted speed when driving with a trailer is **80 km/h (50 mph)** as a rule, even if certain countries may permit higher speeds.

- ▷ Carefully and gradually familiarize yourself with the handling and braking behaviour of the car-trailer combination.
- ▷ Do not drive with the towing vehicle empty and the trailer loaded.
If this unfavorable combination is unavoidable, please drive especially slowly.
- ▷ Bear in mind the different vehicle handling and size in situations such as braking, parking, cornering and overtaking, etc.
- ▷ The driving stability of the car-trailer combination worsens as the speed increases. Therefore, drive especially slowly on downhill stretches and in the case of unfavourable road and weather conditions (such as wind).
- ▷ Drive in an appropriately low gear on downhill stretches in order to make use of the engine braking effect.

- ▷ Slow down immediately if the trailer starts to sway. Do not countersteer; brake if necessary. Never attempt to straighten out the car-trailer combination by accelerating.
- ▷ Activate Low Range when moving off on steep slopes.
- ▷ Under no circumstances may people, animals or objects be in the space between the trailer and the towing vehicle when the vehicle is moving.
- ▷ When reversing, bear in mind that ParkAssist is not active.

Maintenance note

- ▷ Please take into consideration that driving with a trailer places markedly greater stress on all vehicle components. Expert inspection and maintenance after every use are indispensable prerequisites for proper functioning and safety.

Hitching trailer

- ▷ Always turn off the alarm system before you attach a trailer. The inclination sensor could trigger the alarm unintentionally.
- ▷ Follow the operating instructions for the trailer recommended by the trailer manufacturer.
- ▷ Please observe the chapter "WEIGHTS" on Page 337.

Unhitching trailer

- ▷ If the trailer is equipped with an overrun brake, do not unhitch the trailer when its brake is still applied.

Shifting Gear, Traction Systems

Tiptronic S.....	192
Selector Lever Positions	194
Driving Programs for On-Road and Off-Road Driving.....	201
Power-Transmission and Running-Gear Control Systems	204
Off-Road Driving	212
Air Suspension with Level Control and Height Adjustment	220
Porsche Active Suspension Management (PASM).....	223

Tiptronic S

The Porsche Tiptronic is a six-speed transmission and features an “automatic” and a “manual” gear-shift mode.

In **automatic selection mode** (selector lever position **D**), gear changing is automatic. Depending on the driving program, 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 or by pushing the selector lever forward or back.

You can change between selector lever positions **D** and **M** as you wish while driving.

Note on operation

Take care not to operate the rocker switches on the steering wheel inadvertently, thereby triggering undesired gear changes.



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**) on the front side of the selector lever prevents unintentional gear changes.

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

The selector lever cannot be operated in the event of an electrical fault.

- ▷ Please observe the chapter “SELECTOR LEVER EMERGENCY RELEASE” on Page 200.

Starting

The engine can be started only in selector lever position **P** or **N** with the brake pedal pressed.

Moving off

- ▷ Select the desired position for moving off (**D**, **M** or **R**) only when the engine is idling and whilst depressing the brake pedal.
- ▷ Since the car creeps when in gear, do not release the brake until you want to move off.
- ▷ After selecting a gear, do not accelerate until you can feel that the gear is engaged.



Cayenne Turbo

Indicator for selector lever position and engaged gear

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



Cayenne S

If there is a fault in the transmission:

- All gear indicators light up (Cayenne Turbo) **or**
- An **X** appears instead of the current gear indication on the multi-purpose display of the instrument panel (Cayenne S).
The transmission no longer shifts.
- ▷ To remedy the fault, immediately consult an authorized Porsche dealer.

Selector Lever Positions

P – Parking lock

In selector lever position **P**, the driven wheels are mechanically locked.

- ▷ Engage parking lock only when vehicle is stationary.
- ▷ Engage parking lock **after** applying the parking brake and release it **before** releasing the parking brake.
- ▷ Always apply the parking brake before leaving the vehicle.

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

R – Reverse

- ▷ Select reverse only if car is stationary and the brake is applied.

N – Neutral

Selector lever position **N** must be selected for towing or in car washes, for example.

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

D - Automatic selection mode (in the road driving program)

The functions of selector lever positions **D** and **M** differ in the on-road program, High Range, and in the off-road program, Low Range.

- ▷ Use selector lever 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. Movement of the accelerator, driving 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 changes on bends are not made until the engine-speed limit is reached.

During braking, and depending on the amount of deceleration, the Tiptronic changes 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 change down.

Moving off

In 2nd gear, the vehicle moves off with the throttle only slightly open. Move off in 1st gear with the throttle open wider or when the engine is cold.

Shifting gear on the steering wheel

By shifting gear with the rocker switches on the steering wheel, you can temporarily change from automatic selection mode **D** to manual selection 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 or 2nd 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 around 8 seconds (unless car is cornering, overrunning or stationary),
- if you depress the accelerator to kickdown.

Temporary change-down

Precondition

- Speed is higher than approx. 54 km/h (33 mph).
- ▷ 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, two or three gears.

Ending the function

- ▷ Release the accelerator markedly (by approx. 25%).

▷ ▷ ▷

Kickdown

The kickdown function is active in selector lever position **D**.

- ▷ 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 full-throttle position.

D - Automatic selection mode (in the off-road driving program)

The functions of selector lever positions **D** and **M** differ in the on-road program, High Range, and in the off-road program, Low Range.

- ▷ Use selector lever position **D** for “normal” driving.

The gears are shifted automatically according to the accelerator position and speed. The gear-changing points have been adjusted to achieve the best possible vehicle control on difficult terrain.

Depending on the route profile, the gear-changing points are shifted towards higher or lower engine-speed ranges. On steep downhill stretches, upward shifts are prevented until medium engine speeds are reached (at least 2,500 rpm).

When the car is overrunning, an automatic upshift does not occur when the engine speed limit is reached.

Moving off

The car moves off in 1st gear.

Shifting gear on the steering wheel

By shifting gear with the rocker switches on the steering wheel, you can temporarily change from automatic selection mode **D** to manual selection mode **M**.

Advantages

- Shifting down on downward slopes (engine braking).
- Shifting down for brief spurts of acceleration.
- Selecting 1st/2nd or 3rd gear for moving off.

The manual selection mode remains engaged:

- For overrunning
- Depending on lateral acceleration
- When the vehicle is stationary (e.g. at a junction).

The system leaves manual selection mode:

- Automatically after around 8 seconds (unless car is subject to high lateral acceleration, is overrunning or stationary),
- if you depress the accelerator to kickdown.

Kickdown

The kickdown function is active in selector lever position **D**.

- ▷ For optimum acceleration, e.g. when overtaking, depress the accelerator pedal beyond the full-throttle point (kickdown).

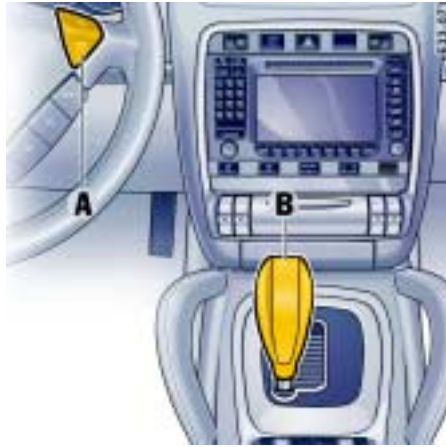
The transmission shifts down depending on the speed of travel and engine speed.

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 full-throttle position.

Tip on driving

Unlike in the on-road driving program, an automatic upshift is **not** performed in manual selection mode **M** when the engine-speed limit is reached.



M - Manual selection mode (in the road driving program)

The functions of selector lever positions **D** and **M** differ in the on-road program, High Range, and in the off-road program, Low Range.

The currently selected gear is retained if you change from **D** to **M**.

If you change 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".

The kickdown function cannot be used to downshift in manual selection mode "M".

- ▷ Therefore shift down manually when accelerating (e.g. to overtake).

Shifting up

- ▷ Press upper part (+) of a rocker switch **A** or
- ▷ Push selector lever **B** forward in the M gate.

Shifting down

- ▷ Press lower part (-) of a rocker switch **A** or
- ▷ Push selector lever **B** back in the M gate.

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 control unit.

You can change down two gears by quickly pressing rocker switches **A** or selector lever **B** twice.

If PSM is active and the engine-speed limit is reached, an automatic upward shift is performed or, just before idling speed is reached, a downward shift is performed.

- ▷ Select an appropriately low gear on upward and downward slopes.
This will ensure optimum use of engine power and engine braking.

If manual mode fails, the control electronics switch to automatic mode.

In this event, the instrument panel will display selector lever position **D**.

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

▷ ▷ ▷

M - Manual selection mode (in the off-road driving program)

The functions of selector lever positions **D** and **M** differ in the on-road program, High Range, and in the off-road program, Low Range.

The currently selected gear is retained if you change from **D** to **M**.

If you change 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".

The kickdown function cannot be used to downshift in manual selection mode "M".

- ▷ Therefore shift down manually when accelerating (e.g. to overtake).

Tip on driving

The kickdown function is **not** active in selector lever position **M**.

Unlike in the road driving program, an automatic upshift is **not** performed when the engine-speed limit is reached.

Shifting up

- ▷ Press upper part (+) of a rocker switch **A** or
- ▷ Push selector lever **B** forward in the M gate.

Shifting down

- ▷ Press lower part (-) of a rocker switch **A** or
- ▷ Push selector lever **B** back in the M gate.

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 control unit.

You can change down two gears by quickly pressing rocker switches **A** or selector lever **B** twice.

The gear is changed down automatically just before idle speed is reached.

- ▷ 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 panel will display selector lever position **D**.

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

Stopping

- ▷ For a brief stop (e.g. at a traffic light), leave the selector lever in drive position and hold the vehicle with the brake pedal.
- ▷ Do not hold the car on a slope using the accelerator. Use the brake pedal or the parking brake instead.
- ▷ Before leaving the vehicle, always apply the handbrake and move the selector lever to position **P**.

Tip on driving

In selector lever positions D and M, the Hillholder prevents the car from rolling backward when it has been stopped on an upward slope with the engine running.

- ▷ Please observe the chapter "HILLHOLDER" on Page 211.

Parking

- ▷ Go easy on the accelerator.
- ▷ When parking or maneuvering in a small space, control the speed by careful use of the footbrake.

Driving in winter

In wintry road conditions it is advisable to take steep inclines in manual mode **M**. This prevents the occurrence of gear changes that could cause wheelspin.

Reduced driving program

If there is a fault in the transmission:

- All gear indicators light up (Cayenne Turbo) **or**
- An **X** appears instead of the current gear indicator on the multi-purpose display of the instrument panel (Cayenne S). The transmission no longer shifts.
- ▷ To remedy the fault, immediately consult an authorized Porsche dealer.



Warning!

Reverse gear lock monitoring is disabled in the emergency running program. Damage to the vehicle may result as well as loss of control, if the vehicle is moving forward fast enough to cause rear wheel lockup.

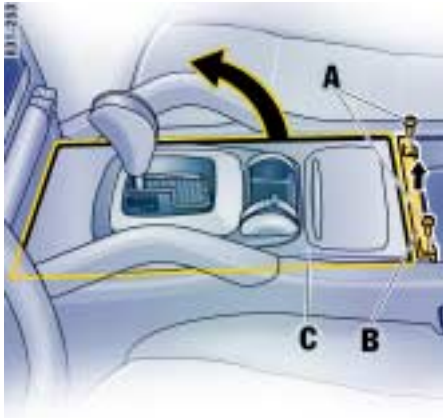
- ▷ Do not shift into **R** while the vehicle is moving forward.

Tip on driving

3rd or 5th gear in selector position **D** and reverse gear **R** are now available and will allow you to reach the nearest authorized Porsche dealer.

- ▷ Please go to your authorized Porsche dealer as soon as possible.

▷ ▷ ▷



Selector lever emergency release

In the event of an electrical fault, the selector lever lock in position **P** can be manually released (for towing the vehicle, for example).

1. Raise center armrest.
2. Use the key for emergency operation of the sliding/lifting roof to undo screws **A**.
Please observe the chapter "EMERGENCY OPERATION OF SLIDING/LIFTING ROOF" on Page 153.
3. Remove trim mounting **B**.



4. Lift trim **C** at the rear and carefully pull it off.
5. Unplug plug connection **D**.



6. Press foam aside.
7. Press locking lever **E** aside (to the left) using a suitable object.
8. Move selector lever to position **N**.
9. Reassemble in reverse order.



Driving Programs for On-Road and Off-Road Driving

Two different driving programs with special power-transmission and running-gear control systems (such as ABS, off-road ABS and PSM, etc.) are provided in your Porsche, with the aim of realising the best possible driving dynamics combined with maximum safety on the road.

All control systems meet these requirements for both off-road and normal driving.

With rocker switch **A**, you can easily select the appropriate driving program to suit the special requirements for the respective terrain.

These programs are:

- the off-road driving program, Low Range (with reduction) and
- the on-road driving program, High Range (with-out reduction).

Use

Rocker switch **A** is located in the center console of the vehicle. It features a multi-step function and can be operated in both directions.

Each time the rocker switch is pushed forward, the vehicle becomes one step more suitable for off-road driving. This is realised by changing from the on-road to the off-road driving program or by engaging the differential locks in stages.

The number of differential locks that can be engaged in Low Range depends on the equipment of your vehicle.

Each time the rocker switch is pushed back, the vehicle becomes one step more suitable for on-road driving.

Once the driving program has been selected, the rocker switch springs back to home position.

Notes on operation

If the Low Range indicator light beside the rocker switch flashes rapidly **after the ignition is switched on**, there is a fault in the shifting system.

- ▷ Please have the vehicle checked immediately at an authorized Porsche dealer.



Low Range indicator light

If the Low Range indicator light beside the rocker switch flashes when you attempt to operate rocker switch, the conditions for a shift have not been met:

- The vehicle must be stationary
- The brake must be applied **and**
- the selector lever must be in position **N**.

▷ ▷ ▷



A - Rocker switch
B - Low Range is engaged

Changing from on-road driving program to off-road driving program

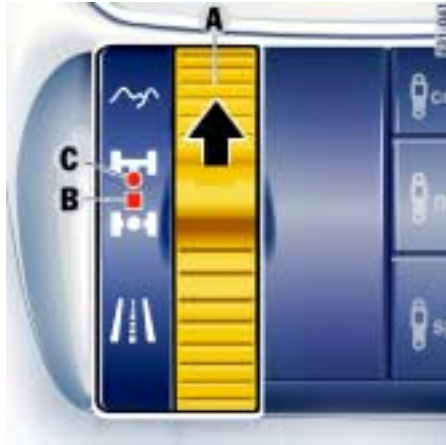
- ▷ Stop the vehicle.
- ▷ Apply the brake.
- ▷ Move selector lever to position **N**.

- ▷ Push rocker switch **A** forward until activation of the off-road driving program is indicated on the multi-purpose display of the instrument panel and by illumination of light-emitting diode **B**. The Low Range indicator lights in the instrument panel and beside the rocker switch **flash several times** during the shifting process. Low Range is now engaged.

Tip on driving

When Low Range is active, the power transmission and running-gear control systems are automatically adapted to the requirements for off-road driving.

- ▷ Please observe the chapter "POWER-TRANSMISSION AND RUNNING-GEAR CONTROL SYSTEMS" on Page 204.



A - Rocker switch
B - Low Range is engaged
C - Center differential lock is fully engaged

Fully engaging the center differential lock in Low Range

- ▷ Push rocker switch **A** forwards in stages until engagement of the center differential lock is indicated on the multi-purpose display of the instrument panel and by the illumination of the two light-emitting diodes **B** and **C**. The center differential lock is changed over to fully engaged state by the automatic control system.

Tip on driving

When the center differential lock is fully engaged, there is no longer any speed difference between the front and rear axles. If, for example, both wheels at the front axle lose traction on an icy road or soft surface, the automatic power distribution function will permit the car to continue moving nevertheless.

Changing from off-road driving program to on-road driving program

- ▷ Stop the vehicle.
- ▷ Apply the brake.
- ▷ Move selector lever to position **N**.
- ▷ Pull rocker switch **A** back in stages until all light-emitting diodes, **B** and **C** are out. The Low Range indicator lights in the instrument panel and beside the rocker switch **flash several times** during the shifting process. High Range is active.

Tip on driving

When High Range is active, the power-transmission and running-gear control systems are automatically adapted to the requirements for on-road driving.

- ▷ Please observe the chapter "POWER-TRANSMISSION AND RUNNING-GEAR CONTROL SYSTEMS" on Page 204.

Power-Transmission and Running-Gear Control Systems

A complex interconnection of all control systems acting in power transmission and in the running gear has been realised in your Porsche. All control systems have been linked with the aim of combining the best possible driving performance with maximum safety. The following systems are involved:

System/designation	Scope
PTM Porsche Traction Management	<ul style="list-style-type: none">– Full-time all-wheel drive– Electronically controlled center differential lock– Automatic brake differential (ABD)– Traction control system (TCS)– Reduction gear/Low Range
PSM Porsche Stability Management	<ul style="list-style-type: none">– Stability management system– Anti-lock brake system (ABS)– Traction control system (TCS)– Automatic brake differential (ABD)– Engine drag torque control (MSR)
Air suspension with level control and height adjustment	<ul style="list-style-type: none">– Fully load bearing air spring struts with integral shock absorbers– Air supply system with pressure accumulator
PASM Porsche Active Suspension Management	<ul style="list-style-type: none">– Shock absorber system with adaptive, continuous shock absorber control

Porsche Traction Management (PTM)

Porsche Traction Management is a full-time all-wheel control system designed to influence the longitudinal and lateral dynamics. It is closely linked with the Porsche Stability Management (PSM) system:

PTM ensures the best possible power distribution to the four driven wheels at the front and rear axles. The system realises this optimal traction by intervening in the lock control function of the transfer case and rear differential. PTM is active at all times and, unlike the PSM, cannot be switched off.

Advantages of PTM

- Obvious improvement in traction, driving stability and steering ability of the car.
- Vehicle is more manageable when driven at its performance limits.
- Improved straight-ahead tracking and stability.
- The aforementioned features allow for a sportier setup of the running gear.
- The TCS and ABD provide even better traction for all wheels.

Safety notes!

In spite of the advantages of PTM, it is still the driver's responsibility to adapt his driving style and manoeuvres in line with road and weather conditions, as well as the traffic situation.

The increased safety that is provided should not induce you to take greater risks with your safety. The limits set by the physics of driving cannot be overcome, even with PTM.

Risks of accident due to inappropriate speed cannot be reduced by PTM.

▷ ▷ ▷

Full-time all-wheel drive

With the four-wheel drive, the drive power is variably distributed to the front and rear wheels. Power distribution and wheel speed compensation between the front and rear axles is realised with a transfer box.

Distribution of the drive power depends on the wheel speed difference between the two axles. The transfer box always controls power distribution in such a way that optimal propulsion is achieved, even on an unfavorable road surface.

Full-time four-wheel drive ensures optimal handling and great stability.

Safety notes!

In spite of the advantages of four-wheel drive, it is still the driver's responsibility to adapt his driving style and manoeuvres in line with road and weather conditions, as well as the traffic situation.

The increased safety that is provided should not induce you to take greater risks with your safety. The limits set by the physics of driving cannot be overcome, even with four-wheel drive.

Risks of accident due to inappropriate speed cannot be reduced by four-wheel drive.

Automatic brake differential (ABD)

The ABD system controls the front and rear axles separately. If one wheel of an axle starts to spin, it is braked so that the other wheel on the same axle can be driven.

The ABD recognises different driving states, and it features control strategies adapted to these states. In situations in which little propulsive power is required, such as when the car moves off on a level gravel surface, traction control already becomes active at low engine speeds. If great propulsive power is required, e.g. when moving off on an uphill slope or for rapid acceleration, the ABD is adapted accordingly.

A special off-road program is used in Low Range mode.

Traction control system (TCS)

The traction control system prevents the wheels from spinning by adjusting the engine power, thereby ensuring good lane-holding ability and a stable driving behavior.

Porsche Stability Management (PSM)

PSM is an active control system for stabilisation of the vehicle during extreme driving manoeuvres. It operates together with the Porsche Traction Management (PTM) system.

PSM makes use of both the ABD and TCS systems, as well as the known functions of the anti-lock brake system (ABS) and engine drag torque control system (MSR).

Safety notes!

In spite of the advantages of PSM, it is still the driver's responsibility to adapt his driving style and manoeuvres in line with road and weather conditions, as well as the traffic situation.

The increased safety that is provided should not induce you to take greater risks with your safety. The limits set by the physics of driving cannot be overcome, even with PSM.

Risks of accident due to inappropriate speed cannot be reduced by PSM.

Advantages of PSM

- Best possible traction and lane-holding ability in all driving situations – even on road surfaces with varying friction.
- The system compensates for undesired vehicle reactions (Ferraria effect) when the driver releases the accelerator pedal or brakes on bends. This compensation functions up to the maximum lateral acceleration.
- PSM actively stabilises the vehicle in the event of under and oversteering during dynamic driving manoeuvres (e.g. rapid steering movements, during lane changes or on alternating bends).
- Improved braking stability on bends 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:

- Driving speed
- Direction of travel
- Lateral acceleration
- Longitudinal 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. If necessary, PSM additionally influences the engine power or the gear-changing characteristic of the Tiptronic 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 information light in the instrument panel lights up.
- Hydraulic noises can be heard.
- The vehicle decelerates and steering-wheel forces are altered as the PSM controls the brakes.
- Reduced engine power.
- The brake pedal pulsates and its position is changed during braking.
However, it is possible at any time to achieve full vehicle deceleration by increasing the foot pressure slightly.

Examples of PSM control operations

- **Vehicle understeers:**
If the front wheels of the vehicle drift on a bend, engine power is reduced and the rear wheel on the inside of the bend is braked if necessary.
- **Vehicle oversteers:**
If the rear of the vehicle swings out on a bend, the front wheel on the outside of the bend is braked.

Combined use of PSM and PTM

In order to ensure optimal stabilisation of the vehicle, the center differential lock (PTM) is also opened when PSM interventions occur.

Tip on driving

When PSM is switched off, wheel-specific brake interventions and the traction control system (TCS) are also inactive.

The automatic brake differential (ABD) remains on.

Off-road PSM (PSM in Low Range program)

When Low Range is active, an off-road PSM specially matched to off-road driving is activated to enhance traction.

At a speed below **35 km/h (22 mph)**, the terrain PSM intervenes later if the vehicle should understeer and thereby improves steerability in Low Range.

If the brakes are highly stressed, the automatic brake differential (ABD) switches itself off to protect the brakes. It remains deactivated until the brake system has cooled sufficiently.

Engine drag torque control

In conditions of excessive slip, the engine drag torque control system prevents all driven wheels from locking up when the car is overrunning. This is also the case for downshifts on a slippery road.



Switching off PSM

- ▷ Press button **A**.
PSM is switched off after a short delay. With PSM switched off, the PSM warning light in the instrument panel and the information light in the button are lit.

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

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

PSM should always be switched on during “normal” driving.

However, it can be of advantage to switch off PSM temporarily in exceptional situations:

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

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

Information light

- The light indicates a control operation, including when PSM is switched off (brake control in the event of one-sided wheel spin).

Warning light

- The warning light in the instrument panel lights up in combination with the indicator light in the button for a lamp check when the ignition is switched on.
- Together with the information light in the button, the warning light indicates that PSM is switched off.
- A fault is indicated by the warning light in the instrument panel and an indication on the multi-purpose display of the instrument panel. PSM is out of order.
Please have the fault remedied at an authorized Porsche dealer.

Collapsible spare wheel

- ▷ Never switch the PSM off when driving with a collapsible spare wheel.

Towing

- ▷ Please observe the chapter “TOWING” on Page 326.

Tip on driving

When PSM is switched off, wheel-specific brake interventions and the traction control system (TCS) are also inactive. The automatic brake differential (ABD) remains on.

Switching on PSM

- ▷ Press button **A**.
PSM is switched on after a short delay.

▷ ▷ ▷

ABS (Anti-lock Brake System)

Safety notes!

In spite of the advantages of ABS, it is still the driver's responsibility to adapt his driving style and manoeuvres in line with road and weather conditions, as well as the traffic situation.

The increased safety that is provided should not induce you to take greater risks with your safety. The limits set by the physics of driving cannot be overcome, even with ABS.

Risks of accident due to inappropriate speed cannot be reduced by ABS.

ABS ensures:

- **Full steering control**
The vehicle remains steerable
- **Good driving stability**
No skidding due to locked wheels
- **Optimum braking distance**
Shorter stopping distances in most cases
- **Lock prevention**
No flat spots on the tires

Function

The decisive advantage of ABS is in the driving stability and manoeuvrability of the vehicle in hazardous situations, even during heavy braking while cornering.

ABS prevents locking of the wheels during full braking, on almost all road surfaces, until shortly before the vehicle stops.

The ABS begins to control the braking process as soon as a wheel shows a tendency to lock. This controlled braking process is comparable to extremely rapid cadence braking. The pulsating brake pedal and a "rattling noise" warn the driver to adapt his driving speed to the road conditions.

Warning light

If the ABS warning lights light up in the instrument panel and on the multi-purpose display of the instrument panel while the engine is running, the ABS has switched off because of a fault.

In this event, the braking system will operate **without lock prevention**, as in cars without ABS.

- ▷ Adapt your driving style to the changed braking behaviour.
The ABS must be checked immediately at an authorized Porsche dealer in order to prevent the occurrence of further faults the effects of which cannot be defined.

The ABS control unit is adjusted for the approved tire dimensions.

The use of tires with non-approved dimensions can lead to different wheel speeds, causing the ABS to switch off.

Off-road ABS (ABS in Low Range program)

When Low Range is active, an ABS specially matched to off-road driving is activated automatically.

At speeds below **50 km/h (30 mph)**, the front wheels can lock up in cycles during braking to shorten the braking distance when the vehicle is driven off-road (the wheels dig in to the surface). If the driver needs to steer, this off-road driving program is automatically switched off briefly to maintain steerability.

Hillholder

In selector lever positions **D** and **M**, the Hillholder prevents the car from rolling backward when it has been stopped on an upward slope with the engine running. The driver does not have to apply the brake.

The hillholder thus makes moving off on slopes easier.



Risk of accident.

The vehicle can roll backwards if the Hillholder is switched off.

- ▷ Always apply the footbrake on slopes.
-

Hillholder is not active:

- In selector lever positions **N** and **R**
- In the reduced driving program **and**
- If not all of the wheels are touching the ground (on difficult terrain, for example).

Checks on test stands

Power measurement

Power measurements on roller test stands are not approved by Porsche.

Brake tests

Brake tests must be carried out only in High Range and on plate-type test stands or roller test stands.

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

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

Parking brake test

Parking brake tests on the brake tester must be performed only with the ignition switched off and the selector lever in position **N**.

Balancing wheels on the vehicle

During finish balancing of the wheels, the entire vehicle must be lifted and the wheels must be free to turn.

Towing

- ▷ Please observe the chapter "TOWING" on Page 326.

Off-Road Driving

Please read this chapter carefully before driving off road with your Porsche.

The information provided will familiarise you with the special advantages of your vehicle, allowing you to arrive at your destination safely every time.

We recommend practicing on less rugged terrain.

Maintenance note

Please bear in mind that off-road driving subjects all vehicle components to considerably more wear than normal use, making professional inspection and maintenance after each use a vital precondition for functioning and safety.

Grains of sand, dirt particles and other abrasive materials entering the brakes can cause excessive wear or unpredictable braking action.

Rules for off-road driving

- ▷ Please observe the chapter “GROUND CLEARANCE” on Page 340.
- ▷ Before starting the off-road drive, stop and activate Low Range.
- ▷ Stow or fasten luggage and loads securely. Please observe the chapter “STOWING LOAD” on Page 180.
- ▷ If unknown terrain is obscured from view, examine it on foot first and traverse it with extreme caution. This way, obstacles are easier to recognise and damage to the vehicle is avoided.
- ▷ Always drive with the engine running. Steering assistance is provided only with the engine running.
- ▷ Drive slowly and uniformly.
- ▷ Always make sure that the wheels touch the ground.
- ▷ Before driving through water, check the water depth, the condition of the surface beneath it and the speed of the water.
- ▷ Look out for obstacles such as boulders, holes, tree stumps or ruts.
- ▷ Always keep the sliding/lifting roof and the side windows closed while driving.
- ▷ Do not depart from marked routes or paths.

- ▷ Respect Nature.
Always obey off-limits signs.

Driving systems for off-road driving

Specially adapted driving programs or power-transmission and running-gear control systems are available for off-road driving:

- Off-road program Low Range
- Off-road PSM
- Off-road ABS
- Center differential lock
- ▷ Please observe the chapter “POWER-TRANSMISSION AND RUNNING-GEAR CONTROL SYSTEMS” on Page 204.

Before driving off

Tires

- ▷ Check tread depth and tire pressure.
- ▷ Check for damage and remove any foreign objects (e.g. stones) from the tread.
- ▷ Replace missing valve caps.

Rims

- ▷ Replace dented or damaged rims before driving off road.

After driving off road

Off-road driving places a greater burden on the vehicle than does normal driving on roads.

We recommend inspecting the vehicle after off-road driving. Potential damage poses an accident risk and impairs driving comfort. Damage on the car is recognised in good time if the car is checked.



Car damage poses an accident risk for the vehicle occupants and other road users.

- ▷ In cases of doubt, have your vehicle checked by your authorized Porsche dealer.
 - ▷ Have any damage to your vehicle repaired by an authorized Porsche dealer without delay.
-

Recommended procedure

- ▷ Deactivate Low Range.
- ▷ Clean headlights and tail lights and check them for signs of damage.
- ▷ Clean the front and rear number plates.
- ▷ Clean the tire tread with a jet of water and remove any foreign objects.
- ▷ Clean wheels, wheel housings and the underbody with a jet of water.
- ▷ Check whether the car has picked up plant parts or branches. These materials increase the risk of fire and can damage fuel lines, brake hoses, boots of the axle joints and drive shafts.
- ▷ After off-road driving, always check the entire floor assembly, tires, body structure, steering system, running gear and exhaust system for signs of damage.

▷ ▷ ▷

- ▷ After driving for an extended period through mud, sand, water or substances with a similar soiling effect, check the brake discs, brake pads, wheels and axle joints and have them cleaned.
- ▷ If you experience severe vibrations after driving off road, check the wheels for foreign substances.
These substances can produce an imbalance which might be responsible for the vibrations. Removing these deposits may remedy the problem.

Uphill driving



Danger!

Danger of serious personal injury or death and risk of damage if the vehicle should overturn.

- ▷ Do not turn around when driving uphill.
 - ▷ If it is not possible to climb a gradient, the car must be backed down in reverse gear.
 - ▷ Do not drive over embankments or slopes at an angle to the line of maximum gradient.
 - ▷ If the vehicle starts to tilt, immediately steer in the direction of the tilt (line of slope).
 - ▷ When driving uphill, never let the vehicle roll backward when in idle or not in gear. Exclusive use of the footbrake is too risky in such situations.
-

Note on operation

- ▷ Activate Low Range before taking extreme upward or downward gradients.

Tips on driving

- ▷ Do not perform manual gear changes when driving, and try to avoid stopping.
- ▷ Avoid high engine speeds (max. 2,500 rpm).

Traction on uphill slopes

Note on operation

- ▷ Activate Low Range and engage differential locks if necessary.

Tips on driving

- ▷ When driving uphill, go easy on the accelerator and make sure that wheels have sufficient traction (don't spin).
- ▷ Avoid high engine speeds (max. 2,500 rpm).
- ▷ Drive slowly.

Driving downhill



There is a danger of serious personal injury or death and risk of damage if the vehicle should overturn.

- ▷ Do not drive over slopes at an angle to the line of maximum gradient.
 - ▷ Drive downhill slowly, with the wheels pointing straight ahead.
 - ▷ If the vehicle starts to tilt, immediately steer in the direction of the tilt (line of slope).
 - ▷ When driving downhill, never let the vehicle roll when in idle.
 - ▷ Use engine braking effect.
If the engine braking effect is not adequate, gently apply the foot brake.
-

Note on operation

- ▷ Activate Low Range. The off-road ABS is switched on automatically.

Tips on driving

The same general principle as for uphill driving applies to downhill driving.

- ▷ Do not perform manual gear changes when driving, and try to avoid stopping.
- ▷ Avoid high engine speeds (max. 2,500 rpm).

A special circuit of the off-road ABS permits controlled brief lock-up of the front wheels so that they can dig into the loose surface more effectively. Locked wheels slip and can no longer be steered.

- ▷ When driving down steep hills on unpaved surfaces, brake carefully and do not start to slide.

▷ ▷ ▷



Water crossing

- ▷ Please observe the chapter “GROUND CLEARANCE” on Page 340.



Danger!

Danger of drowning if water enters the vehicle. Risk of damage to the engine and accessories if water penetrates.

- ▷ Before driving through water, check the water depth **A**, water speed and the condition of the surface beneath it.
The water must not be deeper than 21 in. or 50 cm (22 in. or 55.5 cm for vehicles with level control and height adjustment).

- ▷ Check the door sills and rubber seals before starting to drive.
- ▷ Do not drive through deep or rapidly flowing water.
Deep or rapidly flowing water, e.g. mountain streams, can cause the car to deviate from the intended path.
- ▷ Avoid a "bow wave" by driving at an appropriate speed.
- ▷ Never open the doors when driving through water.

Soiling can impair the braking action.

- ▷ Check and clean the brakes if they have been soiled.

Danger of steering assistance failing during a long journey in the water if the drive belt slips.

- ▷ If the steering assistance fails, more effort will be required to steer.

Notes on operation

- ▷ Activate Low Range.
- ▷ Switch the air conditioner off.
- ▷ Switch the headlights off.

Tips on driving

- ▷ Avoid high engine speeds (max. 2,500 rpm).
- ▷ Do not perform manual gear changes when driving, and try to avoid stopping.
Moving off in the water can be difficult due to the high resistance and the loose surface involved.
- ▷ Start the water crossing at a shallow place at walking speed.
- ▷ After checking the body of water, take the shortest path through it.
- ▷ Never drive into the water at high speed. The resulting “bow wave” could damage the engine and its accessories.
- ▷ Adjust your driving style to the unfamiliar surroundings.
- ▷ Cross the body of water slowly and at a constant speed.
- ▷ Never turn around when crossing a body of water.
- ▷ If it is not possible to cross the body of water, the car must be backed out of it in reverse gear.

The servo pump and alternator can fail if the car is driven through water for an extended period.

- ▷ If the servo pump fails, substantially more force will have to be exerted in order to steer.

Maintenance note

The car requires a special check after the water crossing.

- ▷ Remove mud from the tire tread.
- ▷ Briefly brake the brakes dry after driving through the water.

Humps

- ▷ Please observe the chapter “GROUND CLEARANCE” on Page 340.

Note on operation

- ▷ Activate Low Range and engage differential locks if necessary.

Tips on driving

- ▷ Just before reaching the hump, ease off the accelerator slightly and use the car’s momentum to cross the hump. This will prevent the car from jumping over the hump and landing on the following downward slope at an excessive speed.
- ▷ Avoid high engine speeds (max. 2,500 rpm).

▷ ▷ ▷

Driving on sand

Note on operation

- ▷ Activate Low Range and engage differential locks if necessary.

Tips on driving

Loose sand is an especially tricky surface for off-road driving.

You can often become stuck in sand within minutes if you do not drive correctly in such situations.

- ▷ Drive at brisk pace and do not stop under any circumstances. This will reduce the chance of the car becoming bogged down.
- ▷ Follow existing tracks – provided that they have not been covered by blown sand, are not too deep and the car's ground clearance is sufficient.
Please observe the chapter "GROUND CLEARANCE" on Page 340.
- ▷ Avoid high engine speeds (max. 2,500 rpm).

If your car becomes stuck nevertheless:

- ▷ Do not spin the wheels. Instead, use branches, mats or similar items to provide adequate traction so that you can drive out of the critical area.

Crossing obstacles

 **Caution!**

Risk of damage to the underbody and chassis components if obstacles are traversed improperly.

- ▷ Always bear in mind the ground clearance of your vehicle.
- ▷ Slowly drive over the middle of tree trunks, boulders or other obstacles with one of the front wheels.
- ▷ Cross the obstacle with the rear wheel in the same way.

Note on operation

- ▷ Activate Low Range.



Tips on driving

- ▷ Have your passenger direct you if necessary.
- ▷ Avoid high engine speeds (max. 2,500 rpm).
- ▷ Drive slowly.

Track ruts

Other vehicles leave ruts in many off-road courses or gravel roads.

- ▷ Please observe the chapter "GROUND CLEARANCE" on Page 340.

 **Caution**

Risk of damage to the vehicle floor when driving through ruts that are too deep.

- ▷ Always bear in mind the car's ground clearance.
- ▷ Do not drive over ruts that are too deep.

Note on operation

- ▷ Activate Low Range and engage differential locks if necessary.

Tips on driving

- ▷ In cases of doubt, drive with one wheel on the strip of grass.
- ▷ Avoid high engine speeds (max. 2,500 rpm).
- ▷ Drive slowly.



Air Suspension with Level Control and Height Adjustment

On vehicles with air suspension, the driver can set five different level steps manually.

The preselected level is automatically adjusted to suit the vehicle speed.

The height of the car is automatically kept constant when the car is loaded.

Tip on driving

It is not permissible to drive on public roads with the car in the terrain or special terrain setting.

Note on operation

Frequent level changes can cause the compressor to overheat. In this case, the compressor must cool for several minutes before the level adjustment is fully functional again.

Normal level

The ground clearance at normal level is around 217 mm or 8.5 in.

Terrain level

This setting is intended for off-road driving, field paths and forest paths, etc.

The vehicle is raised by around 26 mm or 1 in. compared to normal level.

Terrain level can be selected only manually at speeds below around 80 km/h (50 mph).

The car is automatically lowered to normal level at speeds exceeding around 80 km/h (50 mph).

The car is automatically raised to terrain level when Low Range is activated.

Special terrain level

This setting is intended only for extremely challenging terrain requiring maximum ground clearance. The vehicle is raised by 56 mm or 2.2 in. compared to normal level.

Special terrain level can be selected only at speeds below around 30 km/h (19 mph).

The car is automatically lowered to terrain level at speeds exceeding around 30 km/h (19 mph).

Low level

This level is intended for high-speed driving. Above speeds of around 125 km/h (78 mph), the car is lowered by around 27 mm or 1 in. compared to normal level.

When the speed drops to below around 40 km/h (25 mph), the car is automatically raised to normal level.

Special low level

At extremely high speeds, for example when operated on a race track, the car is lowered 11 mm or 0.4 in. compared to the low level.

Loading level



Caution!

Risk of damage to running-gear parts, units and the vehicle underbody.

If the car is driven off a curb when at loading level, for example, insufficient ground clearance can cause it to bottom out.

- ▷ Always switch to normal level before moving off.

This setting makes it easier for you to load the luggage compartment.

The vehicle is lowered by around 60 mm or 2.4 in. compared to normal level.

The car is automatically raised to normal level at speeds exceeding around 5 km/h (3 mph).

Setting level manually

Preconditions

- Ignition on.
- Doors are closed.

Setting

- ▷ Move rocker switch in the appropriate direction.
This sets the next possible height.

Indication of selected level

The corresponding light-emitting diode beside the rocker switch flashes during the control process. The light-emitting diode is continuously lit after the control process.

The level change is also indicated on the multi-purpose display of the instrument panel.

Exceptions

- Automatic changes from normal level to low level and back are not indicated on the multi-purpose display of the instrument panel.

Note on operation

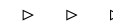
The level selected last is stored in memory after the ignition is switched off.

Raising the vehicle

1st actuation: Terrain level



2nd actuation: Special terrain level



Lowering the vehicle

1st actuation: Low level



2nd actuation: Loading level



Warning lights and warning messages

Various messages are indicated on the multi-purpose display of the instrument panel if there is a system fault or if the compressor switches off due to overload.

- ▷ Please observe the chapter “WARNING LIGHTS AND WARNING MESSAGES” on Page 112.
- ▷ Adapt your driving style to the changed conditions.
- ▷ Consult an authorized Porsche dealer in order to remedy a system fault.
- ▷ If the overload-protection function causes the compressor to switch off, wait for a time until it has cooled down. The system will function again as soon as it has cooled sufficiently.

Cayenne S

The warning light lights up when the control system is switched off and when the collapsible spare wheel is being filled. This does not indicate a fault. The warning light will go out once these procedures have been completed.

Raising vehicle with the jack

Whenever it is necessary to jack up the vehicle:

- ▷ Manually set normal level and then switch off level control.

Switching off level control

1. Switch ignition on.
2. Push rocker switch forward for 5 to 10 seconds.
A message is shown on the multi-purpose display of the instrument panel.
The vehicle can now be raised.

Switching level control back on

1. Switch ignition on.
2. Push rocker switch forward for 5 to 10 seconds **or**
3. Drive forward with the vehicle.
Level control switches on automatically.

Transporting the vehicles on car trains, ferries and car transporters

- ▷ Tie the vehicle down only at its wheels.

Porsche Active Suspension Management (PASM)

Various messages are shown on the multi-purpose display of the instrument panel.

- ▷ Please observe the chapter “WARNING LIGHTS AND WARNING MESSAGES” on Page 112.

Three different running-gear setups can be selected with the push of a button:

- Comfort
- Normal
- Sport

If the running-gear setups “comfort” or “normal” have been selected, the system automatically changes the setup to “sport” when the car is driven in a sporty manner.

Indication of the selected running-gear setup

The light-emitting diode in the button of the selected running-gear setup is lit. In addition, the selected running-gear setup is indicated on the multi-purpose display of the instrument panel for around 12 seconds.

! Warning lights and warning messages

The warning light in the instrument panel comes on if there is a system fault. A warning message is shown on the multi-purpose display of the instrument panel.

- ▷ Adapt your driving style to the changed conditions.
- ▷ To remedy the fault, consult an authorized Porsche dealer.



Selecting the running-gear setup

1. Switch ignition on.
2. Press the appropriate button.

Note on operation

The running-gear setup selected last is stored in memory after the ignition is switched off.

Maintenance, Car Care

Engine Oil Level	228
Engine Oil Recommendation.....	230
Coolant Level.....	232
Brake-Fluid Level	234
Washer Fluid	235
Power Steering	236
Air Cleaner	237
Particle Filter	237
Automatic Transmission Fluid	237
Wiper Blades	238
Fuel Economy	240
Operating Your Porsche in other Countries... ..	240
Fuel.....	241
Fuel Recommendations.....	243
Portable Fuel Containers.....	244
Fuel Evaporation Control.....	244
Emission Control System	245
Car Care Instructions.....	247

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 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 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. The jack supplied with the car is not adequate for this purpose.
- ▷ When working under the car without safety stands but with the wheels on the ground, make sure the car is on level ground, the wheels are blocked, and that the engine cannot be started.
Withdraw ignition keys (switch ignition off in vehicles that have Porsche Entry & Drive).
- ▷ 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, washer fluid, 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.

Radiator fans

The radiator and radiator fans are in the front of the car.



Warning!

Danger of injury. The fans can start running as a function of temperature, even with the engine switched off.

- ▷ 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 occurring when lit, if engine rpm is above idle speed.

Engine Oil Level

- ▷ Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 226.
- ▷ Please observe the chapter “WARNING LIGHTS AND WARNING MESSAGES” on Page 112.
- ▷ Check the oil level regularly. It is best to do this when refuelling and before extended journeys.

Warning!

Engine oil is hazardous to your health and may be fatal if swallowed.

- ▷ Keep engine oil out of children's reach.

Used engine oil contains chemicals that have caused cancer in laboratory animals.

- ▷ Always protect your skin by washing thoroughly with soap and water.



Oil-level warning

If the oil level is too low, this is indicated by the oil-level warning light coming on.

- ▷ Check the oil level using the oil dipstick as soon as possible and add engine oil if necessary.

Checking the oil level

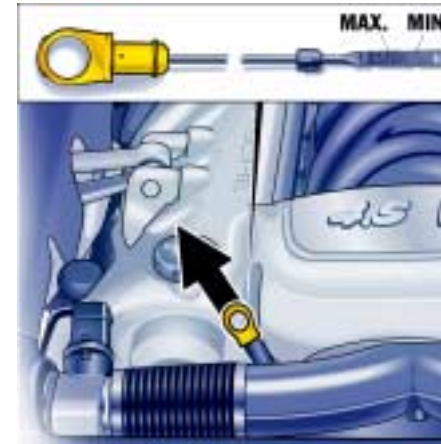
Warning!

Danger of injury. The radiator fans can start running as a function of temperature, even with the engine switched off. Risk of burning from hot parts in engine compartment.

- ▷ Exercise extreme caution when working on the engine compartment.

Conditions for measuring the oil level correctly

- Vehicle must be level.
- Engine must be switched off and at operating temperature.
- Before the oil-level measurement, allow the engine oil to flow back into the oil pan for around 3 minutes.



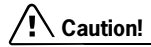
Checking oil level with the oil dipstick

1. Withdraw oil dipstick and wipe it with a clean, lint-free cloth.
2. Push oil dipstick fully home, withdraw again and read off the oil level.
The oil level must never fall below or exceed the “Min.” and “Max.” marks on the dipstick.
The difference between the marks is approx. 1.5 litres or 1.6 qt.
3. Push oil dipstick in as far as the stop.



1. Unscrew cap of the oil filler opening.
2. Add engine oil carefully.
3. Measure oil level again after a few minutes.
Never exceed the MAX mark on the oil dipstick.
4. Push oil dipstick in as far as the stop.
5. Carefully close cap of the oil filler opening.

Topping off engine oil



Fire hazard if engine oil comes into contact with hot engine parts.
Risk of damage if engine oil comes into contact with the drive belt.

▷ Exercise great care when adding engine oil.

Engine Oil Recommendation

Recommended oil viscosity ranges dependent on ambient temperatures:

Ambient temperature (seasonal)	SAE Viscosity Range
-----------------------------------	---------------------

higher than -13°F/-25°C	0 W-40 5 W-40 5 W-50
----------------------------	----------------------------

lower than -13°F/-25°C	0 W-40
---------------------------	--------

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**.

- ▷ Please observe the chapter "CAPACITIES" on Page 336.

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. Only by using oils approved by Porsche the needed engine oil performance is guaranteed.

If your vehicle is used frequently in stop-and-go traffic in cold weather, the engine will not always be properly warmed up.

Condensation from products of combustion may accumulate in the oil. In this case, it is advisable to change the oil more frequently so that your engine once again has 100% efficient engine oil.

Engine oil performance class

Engine oil is not only a lubricant, but also serves to keep the engine clean, to neutralize the dirt which penetrates into the engine through combustion and to protect the engine against corrosion. To perform these functions, the oil is provided with additives which have been specially developed for these functions.

The efficiency of an oil is expressed, for example, by the API, ILSAC or ACEA classifications.

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 the SAE class is given as a number and the letter "W" (as in winter), for hot viscosity the SAE class is given only as a number.

The viscosity of an oil is, therefore, always the same if it has the same number of an SAE class.

E.g.: A 5 W-40 oil and a 5 W-50 oil have the same viscosity when cold; when hot the oil with the number 40 is thinner than the oil with the number 50.

Oils with two viscosities are called multigrade oils; oils with only one viscosity are termed single-grade oils.

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.

Coolant Level

- ▷ Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 226.

The coolant provides year-round protection from corrosion and freezing down to $-31^{\circ}\text{F}/-35^{\circ}\text{C}$ (Nordic countries $-40^{\circ}\text{F}/-40^{\circ}\text{C}$).

- ▷ Use only anti-freeze authorized by Porsche.
- ▷ Check the coolant level regularly.

Checking coolant level/adding coolant

The expansion tank for the coolant is located under the engine-compartment cover in the engine compartment.

When the **engine is cold** and the car is level, the coolant level must lie between the minimum and maximum marks.



Checking when engine is cold

1. Remove cover .

2. Open cap of the expansion tank carefully and allow any overpressure to escape. Then unscrew cap completely.
3. Read the coolant level.
4. Top up with coolant if necessary. Do not exceed the max. mark. Only add a mixture of anti-freeze and water in equal parts.

Antifreeze in coolant:

50% provides anti-freeze protection down to $-31^{\circ}\text{F}/-35^{\circ}\text{C}$.

5. Screw the cap closed firmly and put on the cover.

Checking the coolant level when a warning messages is shown on the multi-purpose display of the instrument panel



Danger of serious personal injury from scalding. Coolant is hazardous to your health, and may be fatal if swallowed.

- ▷ Do not open the cap of the expansion tank while the engine is hot.
- ▷ Allow the engine to cool down before opening the cap and protect your hands, arms and face from any possible escape of hot coolant.
- ▷ Keep coolant out of children's reach.
- ▷ Also, keep coolant away from your pets. They can be attracted to it should there be a spill, or to used coolant left in an open container. Coolant can be deadly to pets if consumed.

1. Remove cover.
2. If the engine is hot, cover the the expansion tank cap with a cloth. Open cap carefully and allow any overpressure to escape. Then unscrew cap completely.
3. Read the coolant level. Top up with coolant if necessary. Only add a mixture of anti-freeze and water in equal parts.
Antifreeze in coolant:
50% provides anti-freeze protection down to -31°F/-35°C.
Do not exceed the max. mark.

Note on operation

- ▷ If the coolant level exceeds the max. mark when the engine is hot, check the coolant level again when the engine is cold.
4. Screw the cap closed firmly and put on the cover.
 5. Have the cooling system checked by an authorized Porsche dealer.

Maintenance note

If in an emergency pure water has been added, the mixture ratio must be corrected at an authorized Porsche dealer.

Marked loss of coolant indicates leakage in the cooling system. The cause should be remedied at an authorized Porsche dealer immediately.

Brake-Fluid Level

- ▷ Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 226.
- ▷ Use only new (unused) Original Porsche brake fluid.

Warning!

Brake fluid is hazardous to your health, and may be fatal if swallowed.

Brake fluid also attacks paintwork.

- ▷ Keep brake fluid out of children's reach.
- ▷ Immediately rinse off spilled brake fluid with clean water.
- ▷ If brake fluid gets into your eye, immediately rinse with clean water for a few minutes. Then see a doctor immediately.
- ▷ Please note all the information on the refill container of the brake fluid.



Checking the brake-fluid level

The reservoir for the hydraulic braking system is located in the engine compartment.

1. Rotate the turn-locks 90° anti-clockwise (**arrow**) with a screwdriver and remove the cover.



2. Check brake-fluid level at the transparent reservoir. The fluid level should always lie between the MIN and MAX marks.

A slight decrease in the fluid level due to wear and automatic readjustment of the disc brakes is normal.

If, however, the fluid level falls markedly or below the MIN mark, the braking system may have developed a leak.

- ▷ Please have the braking system checked immediately at an authorized Porsche dealer.

Changing the brake fluid

Brake fluid absorbs moisture from the air over time. This accumulation of water lowers the boiling point and, under certain operating conditions, can affect the braking action.

- ▷ Therefore, have the brake fluid changed in accordance with the change intervals stated in the booklet "Guarantee and Maintenance".

BRAKE  **Brake fluid warning light USA**

  **Brake fluid warning light Canada**

The warning light in the instrument panel and the warning message on the multi-purpose display of the instrument panel indicate

- Too low brake-fluid level
- In conjunction with large pedal travel, a braking-circuit failure.

If the warning lights should light up while driving:

- ▷ Stop immediately in a suitable place.
- ▷ Do not continue driving. Please have the fault remedied at your nearest authorized Porsche dealer.



Washer Fluid

The washer-fluid reservoir for windshield, rear window and headlights is located in the engine compartment.

Warning message on the multi-purpose display

A message is shown on the multi-purpose display of the instrument panel if the washer-fluid level is too low.

In this case, the residual quantity is only around 0.8 litre or 0.85 quarts.

- ▷ Add washer fluid at the next opportunity.

Topping off washer fluid

The capacity is approx. 7.5 litres or 7.9 quarts.

Clean water is generally not enough to clean the windows 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 mixture ratio.

1. Please note all the information on the refill container of the cleaning agent.
 2. Open cap of the washer-fluid reservoir.
 3. Top up washer fluid and close cap properly.
- ▷ Do not use engine coolant anti-freeze or any other solution that can damage the car's paint, in the washer reservoir.



Power Steering

Warning!

Risk of accident. When the engine is stationary (e.g. when on tow) or the hydraulic system fails, there is no assistance for steering. Therefore, substantially more force will have to be exerted.

- ▷ Exercise great care when on tow.
- ▷ Have the fault remedied at your nearest authorized Porsche dealer.



The flow noise heard at full steering lock is design-related and does not indicate a defect in the steering system.

Checking hydraulic fluid

- ▷ Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 226.
- ▷ Use only hydraulic fluid **authorized by Porsche**.
- ▷ Check the fluid level with the engine stopped and cold (engine temperature approx. 20°C or 68° F).
 1. Remove cover **A**.
 2. Open the reservoir cap.
 3. The fluid level should lie between the MIN and MAX marks on the dipstick. Add hydraulic fluid if necessary.
 4. Close cap carefully.
 5. Put on cover **A**.
 6. Close engine compartment lid.
- ▷ If the fluid level drops significantly, please have the cause remedied immediately by an authorized Porsche dealer.

Air Cleaner

- ▷ Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 226.

Regular replacement of the filter element is part of servicing.

- ▷ In dusty conditions, clean the filter element more frequently and replace if necessary.

Particle Filter

The fresh air passing through the particle filter into the passenger compartment is virtually free of dust and pollen.

- ▷ If the outside air is polluted by exhaust fumes, press the circulating-air button.

A dirty filter can be the cause of reduced air throughput.

- ▷ Have filter replaced by your authorized Porsche dealer.

Regular replacement of the filter is part of servicing.

Automatic Transmission Fluid

The torque converter and the transmission are lubricated with Automatic Transmission Fluid (ATF).

- ▷ Please observe the chapter “CAPACITIES” on Page 336.

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.

Wiper Blades

- ▷ When wiper performance deteriorates, replace the wiper blades in good time.
- ▷ Please observe the chapter “CAR CARE INSTRUCTIONS” on Page 247.

Caution!

Risk of damage if wiper arm accidentally falls back onto the windshield.

- ▷ Always hold the wiper arm securely when replacing the wiper blade.

Risk of damage if wiper blades that are frozen in place are loosened improperly.

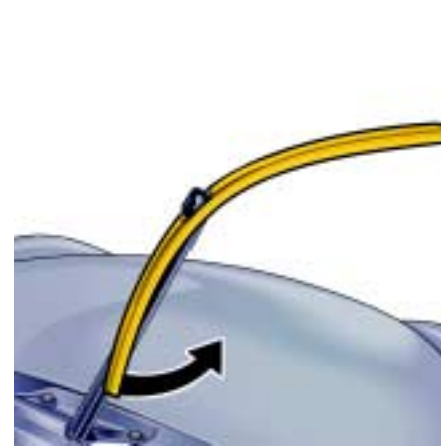
- ▷ Thaw the wiper blades before loosening them.

Replacing windshield wiper blades

Caution!

Risk of damage.
If the wiper blades are not changed properly, they can come loose when the car is moving.

- ▷ Check whether the wiper blades are seated securely.
The wiper blade must be pushed onto the wiper arm up to the stop.



1. Apply the parking brake.
2. Switch the windshield wipers off (position **O**).
3. Switch ignition off.
4. Fold windshield wiper arm away from the windshield.
5. Lift up wiper blade completely (**arrow**).

▷ ▷ ▷



6. Pull off wiper blade toward the windshield (**arrow**).
7. Push on the new wiper blade.

Note on operation

- ▷ Make sure that the wiper blade is pushed onto the wiper arm up to the stop.
- 8. Fold wiper blade back to its original position.
- 9. Carefully fold wiper arm back on to the windshield.



1. Apply the parking brake.
2. Switch ignition off.
3. Fold wiper arm away from the rear window.
4. Pull wiper blade off the wiper arm. Hold wiper arm with one hand during this step.
5. Push the new wiper blade onto the wiper arm and snap it into place.
6. Carefully fold wiper arm back on to the rear window.

Changing rear window wiper blade

! Caution!

Risk of damage if the rear wiper is frozen in place and is loosened improperly.

- ▷ Thaw the wiper blade before loosening them.
- ▷ Grasp the wiper arm with both hands and separate it from the window.

Fuel Economy

Fuel economy will vary depending on where, when and how you drive, optional equipment installed, and the general condition of your car.

A car tuned to specifications and correctly maintained, will help you to achieve optimal fuel economy.

- ▷ Have your vehicle tuned to specifications. Air cleaner should be dirt free to allow proper engine “breathing”.
Battery should be fully charged.
Wheels should be properly aligned.
Tires should be inflated at correct pressure.
- ▷ Always monitor your fuel consumption.
- ▷ Drive smoothly, avoid abrupt changes in speed as much as possible.
- ▷ Avoid jack rabbit starts and sudden stops.
- ▷ Do not drive longer than necessary in the lower gears. Shifting into a higher gear early without lugging the engine will help save fuel.
- ▷ Prolonged “warm up” idling wastes gas. Start the vehicle just before you are ready to drive. Accelerate slowly and smoothly.

- ▷ Switch off the engine if stationary for longer periods.
- ▷ Any additional weight carried in the vehicle reduces fuel economy. Always keep cargo to a minimum and remove all unnecessary items.
- ▷ Organize your trips to take in several errands in one trip.
- ▷ All electrical accessories contribute to increased fuel consumption.
- ▷ Only switch on the air conditioning when necessary.
- ▷ Do not drive with the Roof Transport System mounted unless you need it.

The EPA estimated m.p.g. is to be used for comparison purposes, actual mileage may be different from the estimated m.p.g., depending on your driving speed, weather conditions and trip length. Your actual highway mileage will probably be less than the estimated m.p.g.

- ▷ Please observe all local and national speed limits.

Operating Your Porsche in other Countries

Government regulations in the United States and Canada require that automobiles meet specific emission regulations and safety standards. Therefore, cars built for the U.S. and Canada differ from vehicles sold in other countries.

If you plan to take your Porsche outside the continental limits of the United States or Canada, there is the possibility that

- unleaded fuel may not be available;
- unleaded fuel may have a considerably lower octane rating. Excessive engine knock and serious damage to both engine and catalytic converters could result;
- service may be inadequate due to lack of proper service facilities, tools or diagnostic equipment;
- replacement parts may not be available or very difficult to get.

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

If you purchased your Porsche abroad and want to bring it back home, be sure to find out about shipping and forwarding requirements, as well as current import and customs regulations.

Fuel



Warning!

Fuel is highly flammable and harmful to health.

- ▷ Fire, open flame and smoking are prohibited when handling fuel.
- ▷ Avoid contact with skin or clothing.
- ▷ Do not inhale fuel vapours.

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 "HOW EMISSION CONTROL WORKS" on Page 246.

- ▷ Please observe the chapter "LEVEL GAUGE" on Page 80.

To avoid permanent damage to the functionality of the catalytic converters and oxygen sensors, use **only unleaded fuel**.

The engine is designed to provide optimum performance and fuel consumption if **unleaded premium fuel with 98 RON/88 MON** is used.

If unleaded premium fuels with octane numbers of **at least 95 RON/85 MON** are used, the engine's knock control automatically adapts the ignition timing.



Fuel quality label

Filler flap

The filler flap is located in the rear right wing and is electrically opened with pull-button **A** in the driver's door.

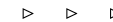
The pull-button is also ready for operation when the ignition is switched off.

Opening

- ▷ Operate pull-button **A** in the driver's door. The filler flap pops open.

Closing

- ▷ Close the filler flap until it clicks shut.





Emergency unlocking

If the electrical release is faulty:

1. Open rear lid.
2. Remove lid of the right storage compartment.
3. Pull emergency release **A** in the **direction of the arrow**.
The filler flap pops open.



Refuelling



The RF energy from a cellphone can cause a sparking on bare metal, much like aluminium foil in a microwave oven. The spark could ignite gasoline fumes present while refueling. Static discharge from your body can ignite gasoline fumes present when you get back out of the vehicle and touch the fuel nozzle. In either case, resulting fire can cause serious damage to the vehicle, serious injury or death to persons in immediate vicinity.

- ▷ Do not use a cellphone while pumping gas.
- ▷ Do not re-enter the vehicle while pumping gas

Total capacity approx. 100 litres or 26.4 gallons, including approx. 12 litres or 3.2 gallons reserve

1. Stop the engine and switch off the ignition.
2. Slowly unscw the tank cap.
Hang the tank cap on plastic strap **A** of the filler flap.
3. Insert pump nozzle fully into the filler neck with the handle of the pump nozzle facing down.
4. Do not add further fuel once the correctly operated automatic pump nozzle has switched off. Fuel could spray or could run over when heated.
5. Replace the tank cap immediately after refueling and turn it until you hear it and feel it engage.

Maintenance note

If you lose the tank filler cap, you must replace it only with an original Porsche part.

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 (93CLC 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 (antiknock index) 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:

$$\frac{\text{RON} + \text{MON}}{2} \quad \text{or} \quad \frac{\text{R} + \text{M}}{2}$$

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



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.
-

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.

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 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.
-

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. Additional hydrocarbons may enter the atmosphere through evaporation of fuel from the fuel tank. These hydrocarbons (HC), when released into the air, contribute to undesirable pollution.

In addition, carbon monoxide (CO) and oxides of nitrogen (NOx) contribute to engine emissions. They, too, are formed during the combustion process and discharged into the exhaust system.

To reduce these pollutants, your Porsche is equipped with a precisely calibrated fuel injection system to assure a finely balanced air/fuel mixture under all operating conditions.

Oxygen sensor

The oxygen sensor, installed in the exhaust pipe continuously senses the oxygen content of the exhaust and signals the information to an electronic control unit. The control unit corrects the air/fuel ratio, so the engine always receives an accurately metered air/fuel mixture.

Crankcase ventilation

Through crankcase ventilation, undesirable emissions from the engine crankcase are not permitted to reach the outside atmosphere. These emissions are recirculated from the crankcase to the air intake system. From here the emissions mix with the intake air and are later burned in the engine.

Catalytic converters

The catalytic converters are efficient “clean-up” devices built into the exhaust system of the vehicle. The catalytic converters burn the undesirable pollutants in the exhaust gas before it is released into the atmosphere.

The exclusive use of unleaded fuel is critically important for the life of the catalytic converters. Therefore, only unleaded fuel must be used.

The catalytic converters will be damaged by:

- push or tow starting the vehicle
 - misfiring of the engine
 - turning off the ignition while the vehicle is moving or
 - driving until the fuel tank is completely empty
 - by other unusual operating conditions.
- ▷ Do not continue to operate your vehicle under these conditions, since raw fuel might reach the catalytic converters. This could result in overheating of the converters. Federal law prohibits use of leaded fuel in this car.

Car Care Instructions

- ▷ Please observe the chapter “EXERCISE EXTREME CAUTION WHEN WORKING ON YOUR VEHICLE” on Page 226.

Regular and correct care helps to maintain the value of your car and is also a precondition for the New Vehicle Warranty and the Anti Corrosion Warranty.

Your authorized Porsche dealer has specially developed car-care products from the Porsche program available either singly or as complete car-care sets. They will be pleased to help you select suitable products.

Whether you use Porsche products or other commercially available cleaning agents first make sure of their correct application.

A Porsche that is well-cared for can look like new for years. It all depends on the amount of care the owner is willing to give the car.

Warning!

Risk of serious personal injury or damage to the vehicle or property.

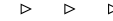
Cleaning agents may be hazardous to your health.

Most chemical cleaners are concentrates which require dilution. High concentrations might cause problems ranging from irritation to serious injury as well as damage to your vehicle.

- ▷ Keep cleaning agents out of reach from children.
- ▷ Observe all caution labels.
- ▷ Always read directions on the container before using any product. These directions may contain information necessary to avoid personal injury.
- ▷ Do not use fuel, kerosene, naphtha, nail polish remover or other volatile cleaning fluids. They may be toxic, flammable or hazardous in other ways. Only use spot removing fluids in a well-ventilated area.
- ▷ Do not clean the underside of chassis, fenders, wheel covers, etc., without protecting your hands and arms as you may cut yourself on sharp-edged metal parts.

Moisture and road salt on brakes may affect braking efficiency.

- ▷ Test the brakes after each vehicle washing.



High-pressure cleaning units



Warning!

High-pressure cleaning units can damage the following components:

- Tires
- Logos, emblems
- Painted surfaces
- Widened fenders
- Engine compartment lid insulation
- Lock and latch of the removable towing attachment
- Alternator, valve covers
- ParkAssist sensors.
- ▷ Please observe the operating instructions from the unit manufacturer.
- ▷ Always cover the lid over the brake fluid reservoir prior to cleaning. Never point the cleaning jet directly at the lid.
- ▷ When cleaning with a flat-jet nozzle or the like, maintain a minimum distance of 50 cm (21 in.).
- ▷ Never use high-pressure cleaning units with a round-jet nozzle.
A high-pressure cleaning unit with round nozzle will damage your vehicle. The tires are particularly susceptible to damage.

- ▷ Do not point the cleaning jet directly at any of the aforementioned components.

Washing

The best protection for the car from the damaging effects of the environment is frequent washing and preservation. The underside of the car should also be thoroughly washed for cinders, salt or sanding at winter's end.

The longer salt, road dust, industrial dust, insect remains, bird excrement, and tree exudations (resin, pollen), etc. are allowed to remain on the bodywork, the more serious is their harmful effect.

New cars should be washed carefully with plenty of clear water to protect the new paint work. Dark paint finishes show up the smallest of surface damage (e.g. scratches) more readily than lighter colors.

Dark colors are also more susceptible to scratching because of the composition of their pigments and require particularly careful paint care.

- ▷ Do not wash your car in bright sunlight or while the bodywork is still hot.
- ▷ When washing by hand, use abundant water, a soft sponge or wash brush and Porsche car shampoo.
- ▷ Begin by spraying the body thoroughly with water to rinse away loose dirt.

- ▷ After washing, rinse the car with plenty of water and then dry with a chamois leather. Do not use the same chamois leather for drying as you use for cleaning the windshield and windows.



Warning!

Moisture which gets on to the brakes during a car wash can reduce braking efficiency or make the brake pull unevenly which could increase the danger of an accident, causing serious personal injuries or death.

- ▷ Always apply the brakes a few times after washing the car to test braking efficiency and dry the brake discs.
When doing this, take care not to hamper other road users behind you (traffic conditions permitting).

Automatic car washes

Optional add-on parts or parts which project beyond the contours of the vehicle may be damaged by design features (e.g. brushes) of automatic car washes.

The following parts are particularly susceptible to damage:

- Windshield wipers (always switch them off to prevent them wiping unintentionally in intermittent or sensor operation).
- Door mirrors (always fold in).
- Roof Transport System (always remove completely).
- Spoiler.
- Wheels (the wider the rim and the lower the tire height, the greater the risk of damage).
- ▷ Please consult the operator before using automatic car washes.
- ▷ Wash and dry by hand all points not reached by a car wash, such as door and lid seams or door sills.

Note

Automatic car washes spray water at odd angles and high pressures, which are not seen in normal driving. Therefore, water can sometimes find its way into the passengers compartment during or shortly after the car wash.

Door lock

- ▷ To prevent the door lock from freezing during the cold season, cover the lock barrel with a suitable adhesive tape during washing.
- ▷ Should the locks freeze, use an ordinary de-icer.
In many cases, a well warmed key can help.
Never use excessive force.

Paint

- ▷ Never rub a dusty car with a dry cloth since dust particles are abrasive and could dull and damage the surface finish.

The paintwork of your car is exposed to all types of mechanical and chemical conditions, particularly climatic ones such as bright sunlight, rain, frost and snow. Ultraviolet light, rapid changes in temperature, rain, snow, industrial dust and chemical deposits constantly attack the paint which is only able to withstand such exposure in the long term if it is given regular care and attention.

- ▷ Do not treat matt-painted components with preservatives or polishes, otherwise the matt effect will be lost.

Preservation

The paint surface becomes dull over time due to weathering. It is therefore necessary to preserve the paint regularly.

This keeps the paint shiny and elastic. Dirt is prevented from adhering to the paint surface and industrial dust is prevented from penetrating the paint.

Provided it is washed and treated with preservative regularly, the brand new finish of your car will be retained for years to come.

- ▷ Simply apply paint preservative after washing the car 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.

Removing spots and stains

- ▷ Remove tar stains, grease, oil spots and dead insects etc. as soon as possible with Insect Remover. They can cause discoloration if allowed to remain on the paintwork.
- ▷ Wash the affected area immediately after treating it.

Minor paint damage

- ▷ Have minor paint damage, such as scratches, scores or chips caused by flying stones, repaired immediately by your authorized Porsche dealer **before** corrosion begins.

However, if there are already traces of corrosion, they must first be removed carefully and thoroughly. Coat the area with a rust-proofing primer and finish off with a top coat. The paint code and color number are found on the vehicle's paint data plate.

- ▷ Please observe the chapter "DATA BANK" on Page 330.

Cleaning the engine compartment



Caution!

Risk of damage, e.g. to the alternator, painted surfaces, insulation of the engine compartment lid and the valve covers.

- ▷ Never use high-pressure cleaning units with a round-jet nozzle.
 - ▷ Always maintain a minimum distance of 50 cm (21 in.).
 - ▷ Always cover the lid over the brake fluid reservoir prior to cleaning with a high-pressure cleaner. Never point the cleaning jet directly at the lid.
 - ▷ Do not point the cleaning jet directly at any of the aforementioned components.
-

If the car is driven off-road frequently:

- ▷ Clean the engine compartment regularly.

If the car is driven frequently on salted or gritted roads:

- ▷ Clean the engine compartment regularly.

Windows

The road dust which settles on the windshield and windows contains particles of tire rubber and oil residue. The interior trim and upholstery release particles, particularly in strong sunlight, which collect on the insides of the windows. These deposits are augmented by impurities in the air which enters the car through the fresh air vents.

- ▷ Clean all windows regularly, inside and outside, with Porsche window cleaner.
- ▷ If you use a chamois leather for the windows, do not use it for paintwork as it will otherwise pick up a certain amount of preservative or polish and could smear the windows and thus impair vision.
- ▷ Remove dead insects with insect remover.

Wiper blades

Wiper blades that are in perfect condition are vital for a clear view.

- ▷ Replace the wiper blades twice per year (before and after the cold season) or whenever wiper performance deteriorates.
- ▷ Periodically clean 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.

Undersealing

The underside of the car is lastingly protected against chemical and mechanical effects. Damage to the protective layer while driving cannot be ruled out.

The car underside should therefore be checked and repaired at regular intervals by an authorized Porsche dealer.



Warning!

Risk of fire in the area of the exhaust system.

- ▷ Do not apply additional undersealing or rust protection agent on or near the exhaust manifolds, exhaust pipes, catalytic converters or heat shields.
The protective material could overheat and ignite while you are driving.
-

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.



Danger of fire and serious personal injuries.

- ▷ Do not apply additional undercoating or rust-proofing on or near the exhaust manifold, exhaust pipes, catalytic converters or heat shields. During driving the substance used for undercoating could overheat and ignite.

- ▷ Before applying fresh underseal, carefully remove deposits or dirt and grease. Once it has dried, the new undercoating compound forms a tough protective coating which provides efficient rust-proofing of the floor panels and components.
- ▷ Always apply a fresh coating of suitable preservative to unprotected areas after cleaning the underside of the body, the transmission, the engine or carrying out repairs to underbody, engine or transmission components.

Effective rust-proofing is particularly important during the cold weather season. If your car is driven frequently in areas where salt has been spread on the roads, the whole engine compartment should be cleaned thoroughly after the winter to prevent salt from causing any lasting damage. A full under-body wash should also be performed at the same time.

Headlights, lights, interior and exterior plastic parts

- ▷ Use **only** clean water and a little dishwashing detergent to clean headlights, lights, 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.

Door, roof, lid and window seals

- ▷ Wash dirt (e.g. abrasion, dust, road salt or grit) 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 lid seals can be protected against freezing into place by a suitable care product.

In order to prevent damage to the anti-friction coating, the inner door seals must not be treated with care products.

Light alloy wheels

- ▷ Please observe the chapter "AUTOMATIC CAR WASHES" on Page 249.

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 too long.

- ▷ If possible, wash the wheels with a sponge or wash brush about every two weeks. In areas where road salt or grit is spread on winter roads or there is a lot of airborne industrial dust, it is best to clean the wheels weekly.
The Porsche Light Alloy Wheel Cleaner (ph-value 9.5) can be used for this purpose.
If the ph-value of the detergent is incorrect, the protective coating on the wheels will be destroyed.

Polishes which dissolve oxides, such as those frequently used for other metals, or abrasive tools or agents are unsuitable because they break down the oxide film of the protective coating and will cause discoloration of the wheel.

- ▷ Every three months, after cleaning, coat the wheels with a car wax or non-corrosive grease (e.g. vaseline).
Using a clean cloth thoroughly rub the grease into the surface.

Leather care

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

- ▷ Clean all types of leather regularly to remove fine dust using a soft, damp, white woollen cloth or a commercially available microfibre cloth.
- ▷ Remove heavy contamination with Porsche leather cleaner.
Please always follow the instructions for use given on the containers.

Caustic cleaners and hard cleaning objects must not be used.

Perforated leather must under no circumstances get wet on its reverse side.

Once cleaned, leather (particularly the heavily stressed leather seats) must be treated only with Porsche leather care liquid.

Carpets and mats

- ▷ Use only a vacuum cleaner or a medium stiff brush.
- ▷ Remove stains and spots with Porsche stain remover.

The Porsche range of accessories includes floor mats to protect the carpets in summer and winter.



Risk of an accident.

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

Airbags



Danger!

There is a danger of serious personal injury or death if the airbag system is impaired by improper cleaning work.

- ▷ Do not make any modifications whatsoever on individual components such as the padded covers of the steering wheel, the front seats, the roof pillars and the rooflinings.
- ▷ Let your authorized Porsche dealer clean these components.

Fabric linings

Fabric linings on pillars, headliner and sun visors, etc., must be treated only using suitable cleaning agents or a suitable dry foam and a soft brush.

Alcantara

Do not use a leather care product to clean Alcantara.

For regular care it is sufficient to clean the cover with a soft brush.

Cleaning when lightly soiled

- ▷ Wet a soft cloth with water or a neutral soap solution and wipe off the dirt.

Cleaning when heavily soiled

- ▷ Wet a soft cloth with lukewarm water or thinned white spirit and dab the dirt from the outside in.

Safety belts

- ▷ Use a mild detergent to clean soiled belts.
- ▷ When drying, avoid direct sunlight.
- ▷ Only use suitable cleaning agents.
- ▷ Do not tint or bleach the belts.
The belt fabric could be weakened, thus affecting safety.

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 "CHARGE STATE" on Page 296.

Vehicle interior

The interior must be dry, especially in the area of the floor carpets. The use of drying agents (Silica-Gel) is recommended in vehicles with leather interior and in areas with high humidity. The recommended amount is 3 fabric bags of 1.1 lbs. (500 grams) each placed on the floor carpets.

Windows, doors, lids and roof must be closed. The air vents should be opened.

Practical Tips, Minor Repairs

Notes on Minor Repairs	259
Tires/Wheels	259
Jack	269
Tool Kit	269
Lifting the Vehicle	
with a Lifting Platform or Garage lift.....	270
Compressor	271
Wheel Bolts	271
Changing Wheels.....	272
Flat Tire.....	273
Electrical System	286
Battery	296
Emergency Starting with Jumper Cables	307
Replacing the remote control battery	309
Bulb Chart	310
Replacing Bulbs	311
Headlights	312
Tail Light	321
License Plate Lights	323
Headlight Adjustment.....	324
Changing Headlights	
from Left to Right-Hand Traffic	325
Towing	326

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 support your car with safety stands if it is necessary to work under the car. The jack supplied with the car is not adequate for this purpose.
 - ▷ When working under the car without safety stands but with the wheels on the ground, make sure the car is on level ground, the wheels are blocked, and that the engine cannot be started.
Remove the ignition key.
- ▷ Do not smoke or allow an open flame around the battery or fuel.
Keep a fire extinguisher in close reach.
 - ▷ Incomplete or improper servicing may cause problems in the operation of the car. If in doubt about any servicing, have it done by your authorized Porsche dealer.
Improper maintenance during the warranty period may affect your Porsche warranty coverage.
 - ▷ Supplies of fluids, e.g. engine oil, brake fluid or coolant, are hazardous to your health. Keep these fluids out of children's reach and dispose of them in accordance with the appropriate regulations.
 - ▷ Some countries require additional tools and special spare parts to be carried.
Please make enquiries before driving abroad.

Notes on Minor Repairs

Tool kit

The tool kit is accommodated in the spare-wheel well under the cover of the loadspace floor.

Tires/Wheels

The original equipment tires and wheel rims on your Porsche comply with all applicable Federal Motor Vehicle Safety Standards.

For your safety remember the following:

- Wheel rims and wheel bolts are matched to fit your Porsche.
- If you intend to use other than original equipment wheels, be sure that they conform to Porsche specifications for your model. Only tires with the same make and with the same specification code (e.g. “NO“, “N1“ ...) can be mounted.
- The use of wheel rims and wheel bolts that do not meet specifications of the original factory installed equipment will affect the safe operation of your vehicle.
- Before you plan on exchanging wheels, or snow tires already mounted on the wheel rims, consult your authorized Porsche dealer. Your dealer has the technical information necessary to advise you which wheel rims and wheel bolts are compatible with the original factory installations.



Risk of loss of control and serious personal injury or death.

- ▷ If while driving, your vehicle experiences a sudden vibration or ride disturbance, and/or you suspect that possible damage to your tires or vehicle has occurred, you should immediately reduce your speed without excessive use of the brakes.
 - ▷ Stop the vehicle as soon as possible, and inspect the tires.
If you cannot determine the cause for the disturbance, have your vehicle towed to the nearest Porsche or tire dealer to have your vehicle or tire(s) inspected.
 - ▷ Continuing to operate the vehicle without correction could result in a loss of control and serious personal injury.
-

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. (Also refer to "Technical data").
- ▷ Cold tire inflation pressure means: all tires must be cold, ambient temperature maximum 68°F (20°C), when adjusting the inflation pressure. Avoid sunlight striking the tires before measuring cold pressures, since the pressures would rise from temperature influence.
- ▷ Valve caps protect the valve from dust and dirt, and thus from leakage. Always screw caps tightly down. Replace missing caps immediately.
- ▷ For safety reasons, don't use tire inflating bottles.

Tire traction

Warning!

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

- ▷ Reduce speed on wet surface to prevent this.

Tire life

Tire life depends on various factors, i.e., road surfaces, traffic and weather conditions, driving habits, type of tires and tire care.

- ▷ Inspect your tires for wear and damage before driving off. If you notice uneven or substantial wear, wheels might need alignment or tires should be balanced or replaced.

▷ ▷ ▷

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.



Driving on worn tires can result in loss of control of the vehicle and could cause serious personal injuries or death.

- ▷ Do not drive with worn tires or tires showing cuts or bruises as they may lead to sudden deflation and loss of control which could cause severe personal injury.
- ▷ Specialized high performance tires on high performance sport utility vehicles exhibit more wear than those on a family sedan, or even a high performance sedan. Therefore, it is important to check your tire pressure and condition at least every two weeks.

- ▷ If you notice that tires are wearing unevenly, consult your Porsche dealer.

Uneven wear may not always be due to improper wheel alignment. It can be the result of individual driving habits such as cornering at high speeds. If the tire pressure is not checked and adjusted regularly, abnormal tire wear can also occur.

Tire care

- ▷ Avoid damaging tires and wheel rims.
- ▷ If you must drive over a curb or other obstacle, drive slowly and at an obtuse angle.
- ▷ Check tires for uneven wear and damage before driving off.
- ▷ Remove imbedded material.
- ▷ Replace worn or damaged tires immediately.
- ▷ Keep oil, fuel, brake fluid, etc. away from tires.
- ▷ Replace missing valve stem caps.
- ▷ Keep tires inflated correctly.

Tire damage, puncture

- ▷ Please observe the chapter “HIGH-PRESSURE CLEANING UNITS” on Page 248.



Warning!

Risk of accident due to hidden tire damage. Tires may burst, especially at high speeds.

- ▷ Check tires – including sidewalls – regularly for foreign bodies, nicks, cuts, cracks and bulges.
- ▷ Cross curb edges slowly and at right angles if possible.
Avoid driving over steep or sharp curbs.
- ▷ In cases of doubt, have the wheel (particularly the inner side) checked by an expert.

In case of tire damage, where it is uncertain whether there is a break in the ply with all its consequences or tire damage caused by thermal or mechanical overloading due to loss of pressure or any other prior damage, we recommend that the tire be replaced for safety reasons.

If one faulty tire is replaced it should be noted that the difference in tread depth on one axle must not exceed 30%. Handling inconsistencies may result.

- ▷ Perform a visual inspection if necessary.

Tire replacements

If in doubt, contact your Porsche dealer or Porsche Importer of your country.

- ▷ Use only tire makes and types tested by Porsche.

If you do not use a Porsche recommended replacement tire, make sure that you purchase your new tires from a reputable tire dealer and that the dealer complies with all manufacturers warnings for those tires.

Only tires with the same make and with the same specification code (e.g. “N0“, “N1“...) can be mounted.

Before mounting new tires, check with your Porsche dealer about the current release status.

Tires should be replaced no less than on one axle at the time. Only tires of the same make and type must be used. Mixed tires are not permissible.

Initially, new tires do not have their full traction. You should therefore drive at moderate speeds during the first 60 - 120 miles (100 - 200 km).

If new tires are installed only on **one** axle, a noticeable change in handling occurs due to the different tread depth of the other tires. This happens especially if only rear tires are replaced. However, this condition disappears as the new tires are broken in.

- ▷ Please adjust your driving style accordingly.

Installation of new tires should only be done by a qualified tire technician.

Valves

- ▷ Use only plastic valve caps.
- ▷ The rubber valves must be replaced whenever the tires are changed.
- ▷ The fitting and replacement specifications must be observed for metal valves.
- ▷ Only use Original Porsche metal valves.

▷ ▷ ▷

Parking at the curb



Hard impacts against curbs (or traffic islands) are dangerous and may cause hidden tire damage which is not noticeable until later. Such damage can result in accidents at high speeds causing severe personal injury. Depending on the force of impact, the edge of the rim can also be damaged.

- ▷ If you are in doubt, have the wheel checked by an expert, particularly if you suspect damage on the inside.
 - ▷ If you must drive over a curb or other obstacle, drive slowly and at an obtuse angle. Exercise care when parking along curbs.
-

Maintenance note

Tire repairs are not permissible under any circumstances.

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.



If, during a journey, uneven running or vibrations occur that could be caused by damage to tires or the car, the speed must be reduced immediately, but without braking sharply. If you continue your trip without having the cause of the fault remedied, you might lose control of your vehicle which could cause severe personal injury.

- ▷ Stop the vehicle and check the tires.
 - ▷ If no cause for the fault can be found, drive carefully to the nearest authorized Porsche dealer.
-

Removing and storing tires

- ▷ After changing, adjust tire pressure and torque wheel bolts diagonally.
Please observe the chapter "CHANGING WHEELS" on Page 272.

Tires must always remain on the same side of the vehicle.

When wheels are removed, the direction of rotation and position of each wheel should be marked.

Example

FR (front right), FL, RR and RL.

Wheels must always be fitted in accordance with their marking.

The preception that tire durability and performance are immune to the effects of storage and age is unfounded.

Chemical additives, which make the rubber elastic, lose their effectiveness in the course of time and the rubber becomes brittle and cracks.

Therefore, the tires, especially the spare tire, should be inspected from time to time.

Note

Under no circumstances should tires older than 6 years be used on your Porsche.

The age of the tire can be obtained from the "DOT" code number. If, for example, the last three numbers read 1202, then the tire was produced in the 12th week of 2002.

Store tires in a cool and dry place.

▷ ▷ ▷

Snow tires

For a better grip on snow and ice, use radial M+S tires with studs.

Check with your local Motor Vehicle Bureau for possible restrictions.



Risk of loss of control and damage to the vehicle as well as serious personal injury or death.

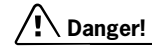
The standard tires profile and rubber mixture are optimized for wet and dry driving conditions, and may not prove favorable for snow conditions.

- ▷ 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.



Tires with badly worn treads and studs are very dangerous and could cause accidents resulting in serious personal injuries or death.

- ▷ Make sure they are replaced immediately.

Do not drive a vehicle equipped with snow tires at prolonged high speed.

Snow tires do not have the same degree of traction on dry, wet or snowfree roads as a normal tire.

Furthermore, snow tires wear rapidly under these conditions.

Snow tires do not fulfill their purpose if the tread depth is less than 5/32 in. (4 mm).

Comply with all state and local laws governing snow tire and tread depth requirements.

 **Danger!**

Risk of accident and serious personal injury or death due to excessive speed.

- ▷ Always check the maximum speed rating on the tire sidewall on any tire on the vehicle.
- ▷ Never exceed the maximum speed rating of the tires.

Fit winter tires to both axles in good time 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 7°C (45°F).

Winter tires lose their suitability when their tread depth falls below 4 mm (1.57 in.).

- ▷ Please note that all-terrain, all-season and off-road tires belong to the category of winter tires.

Wheel change

- ▷ When wheels are removed, mark the direction of rotation and position of each wheel.
Example: FR (front right), FL, RR and RL.
- ▷ Always fit the wheels in accordance with their marking.

Snow chains

 **Caution!**

Risk of damage to body, axle or brake components.

- ▷ Use only the fine-link snow chains recommended and authorized by Porsche so that sufficient clearance between the wheel well and the chain is assured.
- ▷ Follow instructions issued by the supplier of the chains.

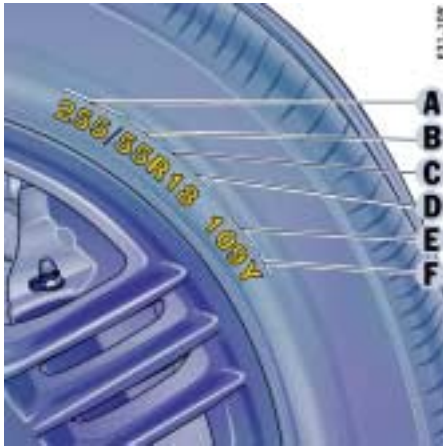
The best possible handling characteristics are achieved when snow chains are fitted on all four wheels of the vehicle. However, it is also possible to fit snow chains on only one axle (preferably the rear axle).

- ▷ Before fitting chains, remove accumulated ice and snow from the wheel well.
- ▷ Vehicles with snow chains must not be driven faster than **50 km/h (30 mph)**.

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.

▷ ▷ ▷



- A** - Nominal width in mm
- B** - Cross-section ratio in %
- C** - Belt type code letter for radial
- D** - Rim diameter in inches
- E** - Load rating code number
- F** - Speed code letter

Inscription on radial tire

Speed code letters

The speed code letter **F** indicates the maximum permissible speed for the tire. This code letter is shown on the tire sidewall.

- T** = up to 190 km/h (118 mph)
- H** = up to 210 km/h (131 mph)
- V** = up to 240 km/h (150 mph)
- Y** = up to 300 km/h (186 mph)

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.

- ▷ 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.

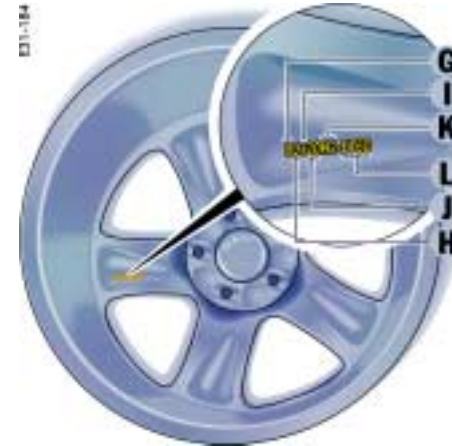
Inscription on light alloy wheels

Maintenance note

- ▷ Protect the valve inserts against soiling with valve caps. Soiled valve inserts can cause a gradual loss of air.

Note on operation

- ▷ The rim width in inches **G** and the rim offset **L** are visible from the outside. This information can be found near the tire valve.



- G** - Rim width in inches
- H** - Rim-flange contour code letter
- I** - Symbol for drop-center rim
- J** - Rim diameter in inches
- K** - Double hump
- L** - Rim offset in mm



Jack

The jack is located in tool box **A** under the load-space floor.

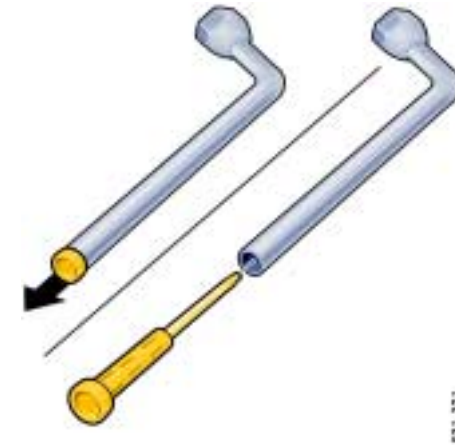
- ▷ Please observe the chapter “OPENING LOAD-SPACE FLOOR” on Page 179.

Warning!

The jack must be used only to raise the car for wheel changing.

The jack must never be used as a support to work underneath the vehicle. If the jack is accidentally dislodged, you or bystanders could suffer severe personal injury.

- ▷ Never jack up other vehicle or other loads with the jack.
- ▷ Always place the car on stable supports if you have to work under the car. When working under the vehicle, always use safety stands specifically designed for this purpose.



Tool Kit

Tool box **A** and possibly compressor **B** with pressure tester are accommodated under the load-space floor.

Notes on operation

The screwdriver is located in the handle of the wheel bolt wrench.

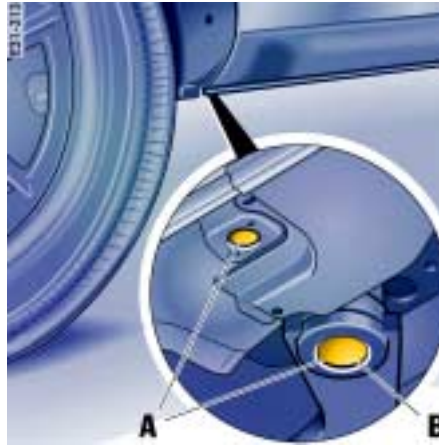
Lifting the Vehicle with a Lifting Platform or Garage lift

- ▷ The car must be raised only at the illustrated jacking points.
Please observe the chapter "LIFTING THE VEHICLE WITH A JACK" on Page 276.
Please observe the chapter "RAISING VEHICLE WITH THE JACK" on Page 222.
- ▷ Lifting at any other place may damage the vehicle or may result in personal injury.

Caution!

Risk of serious damage to the engine or the vehicle.

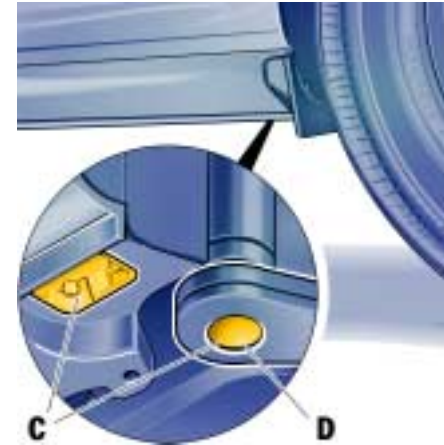
- ▷ Never lift the vehicle by the engine, transmission or axles.
- ▷ Do not damage any sensitive components in the vicinity of the jacking points.



A - Front jacking points platform lift
B - Front jacking point garage lift

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.



C - Rear jacking points platform lift
D - Rear jacking point garage lift

Garage lift

- A garage lift must be used only at the illustrated jacking points.
- ▷ Lifting at any other place may damage the vehicle or may result in personal injury.

Compressor

On vehicles **without** level-control systems, there is an additional compressor with pressure tester under the loadspace floor.

On vehicles **with** level control, you can use the compressor of the level-control system to fill the tires.

The filler hose required for this purpose can be found under the left rear seat.

- ▷ Please observe the chapter "FOLDING REAR SEATS FORWARD" on Page 37.
- ▷ Please observe the chapter "INFLATING TIRES ON VEHICLES WITHOUT AIR SUSPENSION" on Page 279.



Wheel Bolts

- ▷ Always clean the wheel bolts before fitting.

Maintenance note

- ▷ **Wheel bolts must not be greased.**
- ▷ Replace damaged wheel bolts.
Only use the Original
Porsche wheel bolts specially designed for this
vehicle type.

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Tightening torque

Tightening torque of the wheel bolts **160 Nm**
(118 ftlb.).

Security wheel bolts

The adapter (wrench socket) for the security wheel bolts is in the tool box.

To loosen or tighten the wheel bolt with anti-theft protection, the adapter must be used between the wheel bolt and the wheel bolt wrench.

- ▷ When positioning the wrench socket, ensure that it engages fully in the teeth of the wheel bolt.

Note on operation

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

Changing Wheels



Warning!

Failure to follow these instructions may result in serious personal injuries to you or to bystanders.

Before changing the wheel

- ▷ If you have a flat tire, move a safe distance off the road. Turn the emergency flasher on and use other warning devices to alert other motorists.
- ▷ Do not park your vehicle where it may contact dry grass, brush or other flammable materials. The hot parts of the exhaust system could set such materials on fire, thereby causing both property damage and severe or fatal physical injury.
- ▷ Passengers must not remain in the vehicle when it is jacked up.
- ▷ Before you change a wheel, be sure the ground is level and firm. If necessary, use a board under the jack to ensure that the jack does not sink into the ground.
- ▷ Set the parking brake and block the wheels opposite the flat tire on the other side of the vehicle.

While operating the jack

- ▷ The jack is only to be used for changing a wheel. Do not use it as a support to work under the car.
 - ▷ The car must be jacked up only at the illustrated jacking points. Lifting at any other place may damage the vehicle or may result in personal injury. Never jack the car up by the body or the bumpers.
 - ▷ For safety reasons do not use tire inflating bottles. Do not use commercially available sealant bottles.
-

Sequence of operation



Warning!

The jack must be used only to raise the car for wheel changing. The jack must never be used as a support to work underneath the vehicle. If the jack is accidentally dislodged, you or bystanders could suffer severe personal injury.

- ▷ Never jack up other vehicles or other loads with the jack.
 - ▷ Always place the car on stable supports if you have to work under it. When working under the vehicle, always use safety stands specifically designed for this purpose.
-
- ▷ Please use a suitable knee rest to protect your clothing against soiling.

Flat Tire

1. Stop the vehicle as far away from the driving lane as possible.
The car must be parked on a firm and flat surface offering adequate grip.
2. Switch on the hazard warning lights.
3. Fully apply the parking brake.
4. Move the selector lever to position **P**.
5. Straighten the front wheels.
6. Withdraw the ignition key to lock the steering and prevent the engine from being started.
7. Have any passengers leave the vehicle.
8. Set up a warning triangle at a suitable distance.



A - Folding wedges

Securing the vehicle against rolling

For this purpose, use the two folding wedges **A** fastened on the tool box.

1. Unfold the wedges.
2. Engage the wedges.



3. Place one wedge directly in front of and another directly behind the diagonally opposite wheel.

▷ ▷ ▷



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. Even with the tire air-tight, it may be used only for short journeys in an emergency.

On vehicles **without** level control, the tire sealant and a compressor with pressure tester can be found under the loadspace floor in the luggage compartment.

88-314

The tire sealant comprises:

- A filler bottle
- A filler hose
- A valve turner and
- A spare valve insert.

! Danger!

Risk of accident.

- ▷ Use the tire sealant only in the case of cuts or punctures no larger than 4 mm (0.15 in.).
- ▷ Never use the tire sealant if the rim is damaged.

! Warning!

The sealant is highly flammable and harmful to health.

- ▷ Fire, naked flame and smoking are prohibited when handling tire sealant.
- ▷ Avoid contact with skin, eyes or clothing.
- ▷ Keep tire sealant away from children.
- ▷ Do not inhale vapours.

In case of contact with the sealant:

- ▷ If sealant gets on the skin or in the eyes, thoroughly rinse the affected part of the body off or out without delay.
- ▷ Change soiled clothing immediately.
- ▷ Visit a doctor immediately in the event of an allergic reaction.
- ▷ 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 in 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 from filler hose **C**.
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. Screw valve cap onto the tire valve.
14. Drive the vehicle around 10 m or 35 ft. forward. The sealant is distributed in the tire.
15. Inflate the tire. Please observe the chapter "TIRE PRES-SURES, COLD" on Page 335. Please observe the chapter "TIRE PRESSURE SCREEN" on Page 90. Please observe the chapter "TIRE SEALANT/ SEALING SET" on Page 96.

16. Check the tire pressure after driving for around 10 minutes. If the tire pressure is less than 1.3 bar/19 psi, do not continue driving.

Care Instructions

After drying, any sealant that emerges can be peeled off like a film.

Warning!

Risk of accident.

- ▷ Have the tire replaced by a specialist workshop as soon as possible.
- ▷ Avoid hard acceleration and high cornering speeds.
- ▷ Do not exceed maximum speed of 80 km/h (50 mph).
- ▷ Please observe the safety and operating instructions on compressor.

▷ ▷ ▷

Lifting the vehicle with a jack



Warning!

Danger 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.
- ▷ Never jack up the vehicle when it is parked on a surface that slopes up, down or to the side.
- ▷ Use the jack only to raise the car for wheel changing.
- ▷ Always place the car on stable supports if work has to be carried out under the car. The car jack is not suitable for this.

Danger of injury if the level-control system operates during the wheel change.

- ▷ Set the car to jacking mode before raising the car. Please observe the chapter "RAISING VEHICLE WITH THE JACK" on Page 222.

Risk of injury and damage if the vehicle is not secured.

- ▷ Secure the vehicle against rolling.
- ▷ Please observe the chapter "SECURING THE VEHICLE AGAINST ROLLING" on Page 273.



Front jacking point

1. Slightly slacken the wheel bolts of the wheel to be changed.

Maintenance note

The jacking point on the vehicle must be free of dirt.

2. Set up jack only at the points provided **A**, or **B** in case of vehicles with footboard. The jack foot must be in contact over its whole area and must be positioned directly below the head piece. Use a suitable support if necessary.



Rear jacking point

3. Hold jack still and wind it up until its head enters the jacking point on the car. Only jack car up until only the wheel to be changed is completely off the ground.



Wheel change

1. Remove the top wheel bolt with the wheel bolt wrench from the tool kit.



Screwing in assembly aid

2. Remove assembly aid from the tool kit and screw in instead of the wheel bolt.
3. Remove the remaining wheel bolts. Please observe the chapter "WHEEL BOLTS" on Page 271.
4. Change wheel.

5. Insert wheel bolts and tighten by hand. Remove assembly aid and screw in remaining wheel bolt. Initially tighten bolts in diagonally opposite sequence so that the wheel is centered.
6. Inflate the tire. Please observe the chapter "TIRE PRESSURES, COLD" on Page 335. In vehicles with tire pressure monitoring system: Please observe the chapter "TIRE PRESSURE MENU" on Page 93.
7. Lower car and remove jack.
8. Tighten wheel bolts in diagonally opposite sequence.

Maintenance note

- ▷ **Immediately after changing a wheel, use a torque wrench to check the prescribed tightening torque of the wheel bolts (160 Nm/118 ftlb.).**



Collapsible spare wheel

The collapsible spare wheel is fastened under the loadspace floor in the luggage compartment.

1. Take out rotary knob **A** and put it on bolt **B**.
2. Unscrew the screw and take out the collapsible spare wheel.
3. Mount the collapsible spare wheel on the vehicle before inflating it. Leave the car jacked up. Please observe the chapter "LIFTING THE VEHICLE WITH A JACK" on Page 276.

4. Inflate the tire.
Please observe the chapter "TIRE PRES-SURES, COLD" on Page 335.
Please observe the chapter "TIRE PRESSURE SCREEN" on Page 90.

Warning!

Risk of accident.

- ▷ The collapsible spare wheel must be used only over short distances in cases of emergency. For safety reasons, replace the tires **before** the wear indicators appear (webs in the tire grooves, 1.6 mm high).
- ▷ Never deactivate the Porsche Stability Management (PSM) system.
- ▷ Avoid hard acceleration and high cornering speeds.
The maximum permitted speed is **80 km/h (50 mph)** and must not be exceeded because of altered driving characteristics and for reasons of wear.
The tread depth of the spare wheel is subject to the same laws as the original tires
- ▷ Do not use a collapsible spare wheel from a different vehicle type.
- ▷ Do not mount the collapsible spare wheel from your car on a different vehicle.

- ▷ Only fit **one** collapsible spare wheel on the vehicle at a time.
- ▷ On vehicles with air suspension, use the tire filling connection **A** only to inflate the collapsible spare wheel.
- ▷ To avoid damage, do not use automatic car washes when the spare wheel is installed.

After using the collapsible spare wheel

- ▷ Release air by unscrewing the valve insert.

Notes on operation

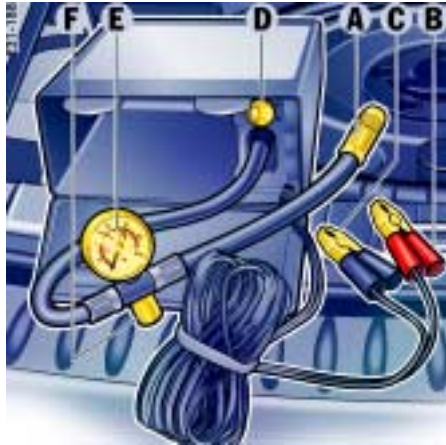
The tire will revert to its original shape only after several hours. Only then can it be stowed in the spare wheel recess in the luggage compartment.

There is a plastic sheet in the tool box to store the damaged wheel.

Maintenance note

The collapsible spare wheel must be repaired only by the manufacturer.

- ▷ Please consult your authorized Porsche dealer if the collapsible spare wheel is defective.



Inflating tires on vehicles without air suspension

1. Open front lid of the compressor.
2. Screw filler hose **A** of the compressor onto the tire valve.
3. Remove cover of the engine-compartment cover.
Please observe the chapter "CONNECTING JUMPER CABLES" on Page 308.



+ = Positive terminal for jump lead starting
- = Grounding point for jump lead starting

4. Connect clamps of the compressor to the jump lead starting terminals.
Always observe the following sequence:
 - Open the cap of the positive terminal for jump lead starting (+).
 - Connect positive lead (red) **B** to the positive terminal for jump lead starting (+).
 - Connect negative lead (black) **C** to the negative terminal for jump lead starting (-).

! Caution!

Danger of burning. The compressor filler hose can become hot during the inflation process.

▷ Wear gloves.

5. Switch on compressor with switch **D**.
The required filling pressure will be reached after a few minutes.
6. Switch off compressor with switch **D**.
7. Check filling pressure with pressure tester **E**.
Then reduce tire pressure or add more air if necessary.
Recheck the filling pressure.
8. Unscrew filler hose of the compressor.

Reducing filling pressure on vehicles without air suspension

1. Switch off compressor with switch **D**.
2. Open air bleed screw **F** until the correct filling pressure is achieved.

▷ ▷ ▷



Inflating tires on vehicles with air suspension

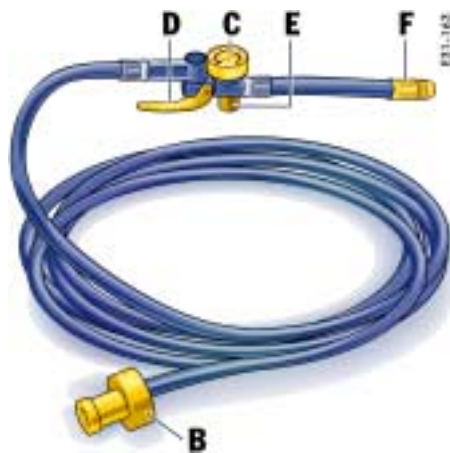
1. Pull up the seat cushion at loop **A** on the rear left seat.
2. Pull seat cushion forward (arrow **B**).
3. Raise seat cushion vertically.



4. Open Velcro fastening strip on the fastening strap.
5. Take tire filling hose out of the bag.



6. Remove cover **A** in footwell of the front passenger's seat.



- B** - Screw coupling for compressor connection
- C** - Pressure tester
- D** - Hand valve for tire filling
- E** - Air bleed screw
- F** - Filler connection for tire valve

7. Screw screw coupling **B** into the compressor connection (in footwell of the front passenger's seat).
8. Screw filler connection **F** onto the tire valve.

Warning!

Danger of injury and risk of damage if the operating unit is used improperly.

- ▷ Use this operating unit only to inflate or to bleed air from the tires of this vehicle.

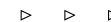
9. Switch ignition on.
10. Press hand valve **D** until the correct tire pressure is achieved. Monitor the tire pressure with pressure tester **C** during the inflation process.
11. Unscrew the screw coupling from the compressor connection.
12. Unscrew filler connection from the tire valve.
13. Stow tire filler hose in the bag.
14. Close bag with Velcro strip.
15. Lower the seat cushion, push it under the backrest and press it down at the front. Make sure that the buckles are accessible.

Note on operation

The compressor features a protective function against overheating and switches itself off automatically if necessary. The compressor must cool down for a few minutes after automatic deactivation.

Reducing tire pressure on vehicles with air suspension

- ▷ Open air bleed screw **E** until the correct tire pressure is achieved. Monitor the tire pressure with pressure tester **C** while correcting the tire pressure.



Spare wheel



Warning!

Risk of accident. The wheel and tire size and the tire quality of the spare wheel and normal wheel may differ.

If a spare wheel that differs from the normal tires is used, this may impair the driving behaviour.

- ▷ The spare wheel must be used only over short distances in cases of emergency. For safety reasons, replace the tires **before** the wear indicators appear (webs in the tire grooves, 1.6 mm high).
- ▷ Never deactivate the Porsche Stability Management (PSM) system.
- ▷ If the tire on the spare wheel is older than 4 years, the spare wheel should be used only in the event of a flat.
- ▷ Avoid hard acceleration and high cornering speeds. The maximum permitted speed is **80 km/h (50 mph)** if the mounted spare wheel differs from the other three wheels on the car. This maximum speed must not be exceeded because of altered driving characteristics and for reasons of wear.
- ▷ Do not use a spare wheel from a different vehicle type.
- ▷ Do not mount the spare wheel from your car on a different vehicle.

Removing spare wheel



Warning!

Danger of injury if the spare wheel is removed improperly.

- ▷ Remove the spare wheel only when the spare wheel bracket is locked.
- ▷ Remove the spare wheel from the spare wheel bracket with care. The wheel is very heavy (approx. 35 kg or 77 lbs.).

1. Unscrew all five wheel bolts.



2. Remove the top wheel bolt. Remove assembly aid from the tool kit and screw in instead of the wheel bolt. Remove the remaining wheel bolts.

Fitting spare wheel

- ▷ Insert wheel bolts and tighten by hand. Remove assembly aid and screw in remaining wheel bolt. Initially tighten bolts in diagonally opposite sequence so that the wheel is centered.
- ▷ Please observe the chapter "TIRE PRESURES, COLD" on Page 335.
- ▷ After mounting the wheel, tighten all five wheel bolts to **150 Nm (111 ftlb.)**.

Opening spare wheel bracket

Warning!

Danger of injury and risk of accident if the spare wheel bracket is operated improperly.

- ▷ Make sure that no persons or animals are within the range of movement of the spare wheel bracket. Operate the spare wheel bracket only using button **B**.
- ▷ If the vehicle is inclined to the side, the additional lock **C** on the spare wheel bracket must be operated.

Precondition

The central locking system must be unlocked.

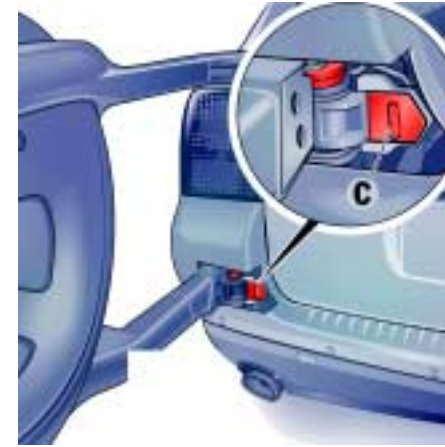
- ▷ Press button **B** and swing the spare wheel bracket open.



B - Button for unlocking the spare wheel bracket

Notes on operation

- If the opening angle **exceeds 30°**, the spare wheel bracket automatically moves to final position.
The rear lid can be opened only when the spare wheel bracket is in final position.
- If the opening angle is **less than 30°**, the spare wheel bracket automatically moves back to its initial position.
However, the spare wheel bracket is not completely engaged yet and must be closed by hand.



C - Additional lock

Operating the additional lock of the spare wheel bracket if the vehicle is tilted to the side

1. Open spare wheel bracket.
2. Slide additional lock **C** to the left.
The spare wheel bracket is mechanically locked.
The warning light "rear lid" and a message on the multi-purpose display of the instrument panel warn the driver that the spare wheel bracket is open.

▷ ▷ ▷

Closing spare wheel bracket



Warning!

Danger of injury and risk of accident if the spare wheel bracket is operated improperly.

- ▷ Operate the spare wheel bracket only using button **B**.
- ▷ If the vehicle is tilted to the side, more effort will be required to swing the spare wheel bracket.
- ▷ Make sure that no persons or animals are within the range of movement of the spare wheel bracket.

1. Check whether additional lock **C** is engaged. If necessary, slide additional lock **C** to the right.
2. Close and lock the spare wheel bracket.
3. Check lock and observe indication on the multi-purpose display of the instrument panel. The indicator light must go out when the spare wheel bracket is locked.



D - Towing lug cover (left)
E - Emergency release cable

Emergency release for the spare wheel bracket

If the battery is flat, the only way to open the spare wheel bracket is by using the mechanical emergency release.



Warning!

Danger of injury and risk of accident if the spare wheel bracket is operated improperly.

- ▷ Perform emergency unlocking of the spare wheel bracket only when the vehicle is on a level surface.
-
1. Remove cover of left towing lug **D**.
 2. Pull emergency release cable **E** in the direction of the arrow.
The spare wheel bracket is now unlocked and can be operated.

Electrical System

In order to avoid damage and faults in electrical or electronic systems, electrical accessories should be installed at your authorized Porsche dealer.

- ▷ Use only accessories authorized by Porsche.



Warning!

Risk of short circuit and fire.
Replacing fuses or relays with engine running or the ignition on could cause electrical shock.

- ▷ Disconnect the battery during all work on the electrical system.
-



Relays

Relays should be checked or 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.

Sockets

Electrical accessories can be connected to the 12 V sockets.

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.

Changing fuses

In order to prevent damage to the electrical system due to short circuits and overloads, the individual circuits are protected by fuses.

One fuse box is in the engine compartment. Two additional fuse boxes are located in the outer ends of the dashboard.

1. Switch off the consumer with the defective fuse. Before replacing a fuse, switch off all electrical consumers and remove the ignition key.
2. Open the fuse-box lid.
3. Remove the corresponding fuse from its slot to check it using the plastic gripper. 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, please consult an authorized Porsche dealer immediately, so that the short circuit can be located and corrected.

Never try to "repair" fuses: you may cause serious damage to other parts of the electrical system.



Cover of engine-compartment fuse box



Fuse box in engine compartment

Opening fuse-box lid in engine compartment

1. Rotate the turn-locks 90° anti-clockwise with a screwdriver and remove the cover.
2. Rotate the turn-locks of the fuse-box lid 90° anti-clockwise with a screwdriver and remove the lid.

▷ ▷ ▷



Opening fuse-box lid in the dashboard

1. Carefully lever off the plastic cover with a screwdriver (**arrow**) and remove.

A - Fuse puller

2. Remove the fuses carefully with the fuse puller.

Fuse assignment – fuse box in left side of dashboard

No.	Designation	Rating in A
1	Sockets	20
2	Parking heater	5
3	Sockets	20
4	Parking heater	20
5	Sockets	20
6		
7	Diagnosis	5
8	Windshield wipers	30
9	Washer fluid pump	15
10	Power window, rear left	25
11	Central locking system	15
12	Interior light	20
13		
14	Power window, front left	25
15	Tail light, left	15
16	Horn	20
17	Turn signal, side light, left	10
18	Headlight washer system	20
19	Fog lights	15
20		
21	Cornering light	15

No.	Designation	Rating in A
22		
23		
24	Tire pressure monitoring system	5
25		
26	Porsche Stability Management, passenger airbag deactivation, brake pedal switch, instrument panel, engine control unit, airbag control unit	10
27		
28		
29		
30		
31		
32		
33	Steering wheel heating, steering column module	15
34	Passenger compartment monitoring, seat heating	5
35	Low beam, high beam	15
36	Vehicle electrical system control unit	10
37		
38	Brake lights	10
39	Relay activation, heated rear window, seat heating	5
40	Instrument panel	5
41	Ignition	15
42	Sliding/Lifting Roof	30
43	Subwoofer	30

No.	Designation	Rating in A
44	Electrical seat adjustment, left; electrical steering column adjustment	30
45	Electrical seat adjustment, left; seat heating, rear	30
46		
47		
48	Parking heater	5
49	Servotronic	5
50		
51	Air-quality sensor, tire pressure monitoring system, diagnosis	5
52	Rear wiper	30
53	Heated rear window control unit, passenger compartment monitoring, light switch, steering column module	5
54	Headlight beam adjustment	10
55		
56	Fan, front air-conditioning system	40
57	Fan, rear air-conditioning system	40
RES 1	Spare fuse 1	5
RES 2	Spare fuse 2	20

Fuse assignment – fuse box in left side of dashboard

No.	Designation	Rating in A
1	Socket for towing attachment	15
2	ParkAssist	5
3	Towing attachment control unit	15
4	Telephone/telematics control unit	5
5	Towing attachment control unit	15
6	Porsche Stability Management	30
7	Center differential lock	5
8	Additional high beam	20
9	CD changer	5
10		
11	Radio	10
12	Radio booster	30
13		
14	Tail light, right	15
15	Power window, rear right	25
16	Rear lid guard light, luggage compartment light, door guard light	10
17	Low beam, right; high beam, right	15
18	Heated rear window	30
19	Towing attachment motor	30/25
20		
21	Alarm system, spare wheel release	10

No.	Designation	Rating in A
22	Electrical seat adjustment, front right; seat heating, front right	30
23	Air conditioning	10
24	Electrical seat adjustment, front right	30
25	Air-conditioning system, rear	5
26		
27	Level control, Porsche Active Suspension Management	15
28		
29	Tiptronic control unit	10
30	Rear lid power closing mechanism	20
31	Comfort systems, rear	15
32	Central locking, right	10
33		
34	Power window, front right	25
35	Turn signal, side light, right	10
36	Roof module, telephone, compass	5
37		
38	Porsche Stability Management	10
39		
40	Center differential lock	10
41	Towing attachment	10
42	Roof module, garage door opener	5
43	Back up light	5
44	Heated washer nozzles, level control	5

No.	Designation	Rating in A
45		
46		
47		
48	Level control, Porsche Active Suspension Management	10
49	Telephone, automatic anti-dazzle mirror	5
50	ParkAssist	5
51	Tiptronic	20
52	Tiptronic	5
53		
54		
55		
56	Porsche Stability Management	40
57	Center differential lock, Low Range	40
RES 1	Spare fuse 1	10
RES 2	Spare fuse 2	30

Fuse assignment – fuse box in engine compartment

No.	Designation	Rating in A
1	Fan	60
2	Fan	30
3	Secondary air pump	40
4	Secondary air pump	40
5		
6		
7	Ignition coils	20
8	Injection valves	20
9	Engine control units	30
10	Engine components: radiator fans, afterrun pump, carbon canister valve, AC pressure sensor, tank leakage diagnosis	10
11	Engine components	15
12	E-box relay, secondary air pumps, afterrun pump relay	5
13	Fuel pump	15
14	Fuel pump	15
15	Engine control unit, fuel pump	10
16	Vacuum pump (Turbo only)	30
17	Oxygen sensors	15
18	Oxygen sensors	7,5

Note

The plastic gripper for replacing the fuses must be removed from one of the fuse-box lids on the dashboard.

Battery



Risk of short circuit and fire.

- ▷ Observe all warning notes on the battery.
- ▷ Disconnect the battery during all work on the electrical system.
- ▷ Do not lay tools or other metal objects on the battery as they could cause a short circuit across the battery terminal.

Hydrogen gas generated by the battery could cause an explosion, resulting in severe personal injuries.

- ▷ Do not expose the battery to an open flame, electrical spark or a lit cigarette.

Risk of severe personal injury and damage to the fabric, metal or paint.

- ▷ Wear eye 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.

Charge state

A well charged battery will not only prevent starting problems but will also last longer.

In order to avoid unintended battery discharge

- ▷ Switch off unnecessary electrical loads in city traffic, on short trips or in a line of traffic.
- ▷ Always remove the ignition key from the ignition switch when leaving the vehicle or switch ignition off in vehicles **with** Porsche Entry & Drive.
- ▷ Avoid using the Porsche Communication Management system and the audio system when the engine is not running.

Battery care

- ▷ Ensure that battery is securely mounted.
- ▷ Keep terminals and connections clean and properly tightened. Corrosion can be prevented by coating the terminals and connections with petroleum jelly or silicone spray.
- ▷ Ensure that vent caps are securely tightened to prevent spillage.

Checking the electrolyte fluid level (only on low-maintenance batteries)

Generally, the electrolyte level must be checked more often in summer than in the winter, and more often when driving long distances.

- ▷ When adding water, use only clean containers. In no case may alcohol (e.g. window cleaner residues) be permitted to enter the battery.
- ▷ Unscrew and open the filler vent caps of each cell.

With the car on a level surface, the fluid level should meet the indicator mark in each cell.

- ▷ If necessary, top up with distilled water. Do not use acid. Only fill up to the mark, otherwise the electrolyte will overflow when the battery is being charged and cause damage.

Winter operation

During the winter months, battery capacity tends to decrease as temperatures drop. Additionally, more power is consumed while starting, and the headlights, heater, rear window defogger, etc., are used more frequently.

Let your Porsche dealer test the battery's capacity before winter sets in.

Vehicle storage

If the car stands for long periods in the garage or workshop, the doors and lids should be closed.

- ▷ Remove the ignition key and, if necessary, disconnect the battery.

Notes on operation

- ▷ When the battery is disconnected, the alarm system ceases to function.
If the vehicle was locked before the battery was disconnected, the alarm will be triggered when the battery is reconnected.
To deactivate the alarm system:
- ▷ Lock the vehicle and unlock it again.

Maintenance note

Even if you put your vehicle out of operation, the battery still discharges.

The battery will discharge more quickly if your vehicle is not driven on a daily basis over a distance of several miles. The more often you drive your vehicle, and the longer the distance driven on each trip, the more opportunity the vehicle's charging system will have to recharge the batteries.

- ▷ To preserve its efficiency, charge the battery about every 6 weeks.
- ▷ Check the battery acid level and top off with distilled water if necessary.
- ▷ Store a battery that has been removed in a dark, cool place, but not subject to freezing.

Putting vehicle into operation

After the battery is connected or charged, the PSM warning light lights up on the instrument panel and a message appears on the multi-purpose display of the instrument panel to indicate a fault.

This fault can be remedied with a few simple steps:

1. Start the engine.
To do this, turn the ignition key or the control unit (on vehicles that have Porsche Entry & Drive) to ignition lock position 2 **twice**.

2. Perform a few steering movements and drive a short distance in a straight line until the PSM warning light goes out and the message is erased from the memory of the multi-purpose display of the instrument panel.
3. If the warnings does **not** go out, then:
Drive carefully to the nearest authorized Porsche dealer.
Have the fault remedied by an authorized Porsche dealer.
4. After the warnings disappear:
Stop the vehicle in a suitable place.
5. Perform adaptation of the power windows:
Please observe the chapter "STORING FINAL POSITION OF THE DOOR WINDOWS" on Page 30.
6. On vehicles with tire pressure monitoring system:
Please observe the chapter "SYSTEM LEARNING PHASE" on Page 92.

▷ ▷ ▷

Replacing the battery

The service life of the battery is subject to normal wear; it depends greatly on care, climatic conditions, and driving conditions (distances, loads).

- ▷ Only use an original Porsche battery, with the correct part number, as a replacement. Only this battery meets the specific requirements of the vehicle.
- ▷ Please observe the disposal instructions for batteries.

Battery charging

Automotive batteries lose their efficiency when not in use. The charge available in your battery can be measured with a battery hydrometer. We recommend that the battery voltage be tested by your Porsche dealer who has the appropriate equipment.

If the car is not driven for prolonged periods, the battery must be charged at least every 6 weeks. A discharged battery allows rapid formation of sulfates, leading to premature deterioration of the plates.



Hydrogen gas generated by the battery could cause an explosion, resulting in severe personal injuries.

- ▷ Charge battery in a well ventilated area.
- ▷ Never charge a frozen battery. It may explode because of gas trapped in the ice. Allow a frozen battery to thaw out first.
- ▷ If you get electrolyte, which is an acid, in your eyes or on your skin, immediately rinse with cold water for several minutes and call a doctor.

Slow battery charging

1. Pay attention to all warnings and follow instructions that come with your battery charger.
2. When charging, ensure adequate ventilation.
3. Remove battery.
Please observe the chapter "REMOVING AND INSTALLING BATTERY" on Page 299.
4. All vent caps should be open. The fluid level should meet the indicator mark in each cell.
5. Ensure that charger is switched off – danger of short circuit!
6. Connect charger cables. Charger cables must be connected POSITIVE (+) to POSITIVE (+) and NEGATIVE (-) to NEGATIVE (-).
7. Switch on charger. Normally, a battery should be charged at no more than 10 percent of its rated capacity. Rated capacity of the battery in your vehicle is listed on the battery housing.
8. After charging, turn off charger and disconnect charger cables.
9. Tighten the vent caps and reinstall battery.
Please observe the chapter "REMOVING AND INSTALLING BATTERY" on Page 299.

Removing and installing battery



Danger!

Danger of explosion and injury and risk of short circuit and damage to the alternator and electronic control units.

- ▷ Have the battery removed and installed only by a qualified professional.
- ▷ Do not disconnect battery while the engine is running.
- ▷ Disconnect and connect the battery only with the greatest care. Danger of short circuit and explosion.
- ▷ Do not tilt the battery when removing it.
Risk of caustic burns from escaping acid.

The battery is located in the battery box under the left front seat.

If the battery is completely discharged, the vehicle must be provided with external power at the jump-lead starting points so that you can move the seat.

- ▷ Please observe the chapter "REPLACING THE BATTERY" on Page 298.

Maintenance note

The seat mounting bolts must be replaced each time they are loosened.

The bolts are micro-encapsulated and keep dust and water out.

If this is not observed, it might not be possible to attain the prescribed tightening torque of 50 Nm (37 ftlb).



Removing battery

1. Switch off all electrical loads and withdraw the ignition key.
2. Move the left front seat all the way back and up.
Move the backrest fully upright.
3. Unclip front seat trim **A**.

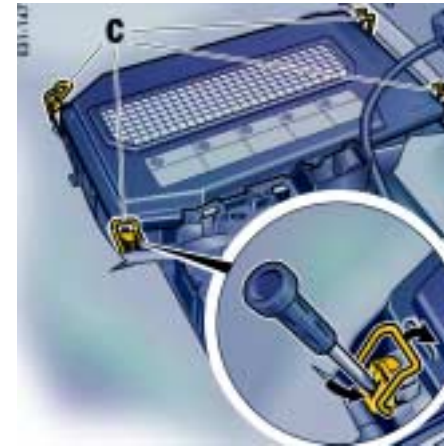
▷ ▷ ▷



4. Fold sections of floor carpet forward.
Unscrew both screws **B** of the seat mounting.



5. Tilt the seat all the way back.
With the seat tilted back, use the fore-and-aft adjustment to move the seat forward again.



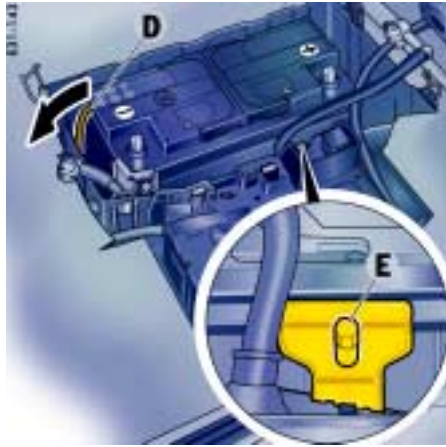
6. Open the 4 clamps **C** of the battery-box lid with a screwdriver.
7. Remove the battery-box cover with ventilation duct.

! Danger!

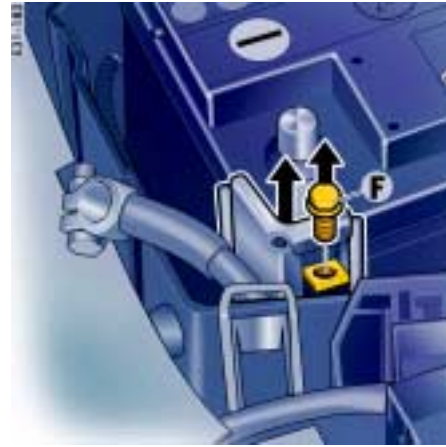
Risk of short circuit and explosion.

- ▷ Disconnect the negative cable first, and then the positive cable.

8. Disconnect the negative cable.
9. Disconnect the positive cable.



10. Pull off vent hose **D** on the battery.
11. Unscrew screw **E** of the battery fastening plate.
Remove battery fastening plate.



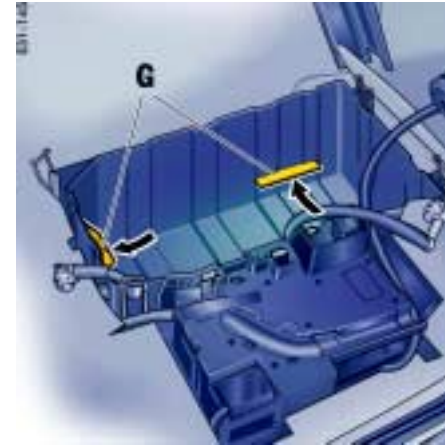
12. Unscrew screw **F** of the bracket.
Remove bracket.



Danger of caustic burns, explosion and risk of injury. Contact with battery acid will burn your eyes and skin.

- ▷ Lift battery out of the battery box using the folding handles.
Try not to tip the battery.

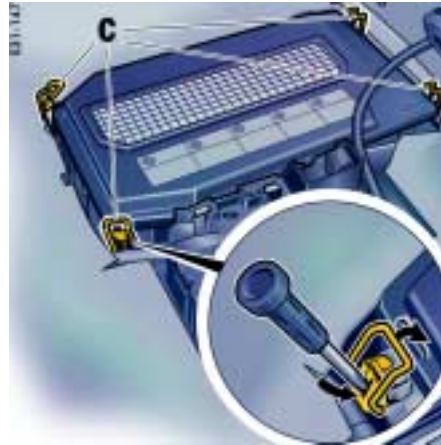
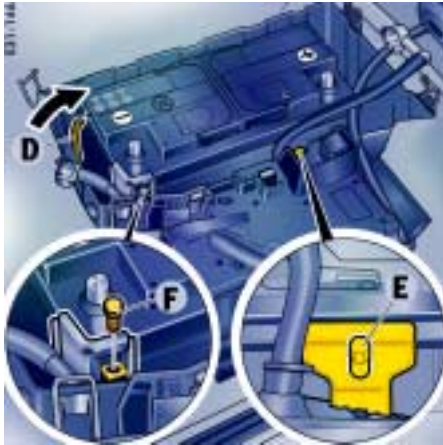
13. Lift battery out of the battery box using the folding handles. Try not to tip the battery.



Installing the battery

1. Danger of caustic burns!
Place battery in the battery box without tipping it if possible.
2. Push battery forwards and toward the center of the vehicle until it is under the stops **G**.





- ▷ **Always tighten all screws to the prescribed torque.**
- 3. Fasten the battery fastening plate with screw **E**. Tightening torque 20 Nm (15 ftlb.).
- 4. Fasten the bracket with screw **F**. Tightening torque 9 Nm (6.5 ftlb.).
- 5. **Important:** Do not forget to connect vent hose **D** to the battery. Make sure that both ends of the vent hose are properly connected.

! Danger!

Risk of short circuit and explosion.

- ▷ Connect the positive cable first, and then the negative cable.
-
- 6. Connect the positive cable.
 - 7. Connect the negative cable.
 - 8. Put on the battery-box cover carefully. Ensure that the ventilation duct is properly inserted.
 - 9. Engage the 4 clamps **C** on the battery-box lid and close them with a screwdriver.

- 10. With the seat tilted back, use the fore-and-aft adjustment to move the seat back. Tilt the seat forward.
- 11. Clean threaded holes on the seat mounting.
- 12. Use only new bolts **B** (the bolts are micro-encapsulated). Insert bolts **B** and screw them in a few turns by hand. Tighten bolts. Tightening torque 50 Nm (37 ftlb.).
- 13. Clip in front seat trim.
- 14. Move seat to normal position.

Removing and installing auxiliary battery



Danger!

Danger of explosion and injury and risk of short circuit and damage to the alternator and electronic control units.

- ▷ Have the battery removed and installed only by a qualified professional.
- ▷ Do not disconnect battery while the engine is running.
- ▷ Disconnect and connect the battery only with the greatest care. Danger of short circuit and explosion.

Note

The general information contained in the chapter on the battery applies to the battery under the driver's seat and the battery in the luggage compartment.

- ▷ Please observe the chapter "CHARGE STATE" on Page 296.

The auxiliary battery is located in the luggage compartment under the cargo area floor.

Any subwoofers or collapsible spare wheels that may be in the vehicle must be removed before the battery is removed.



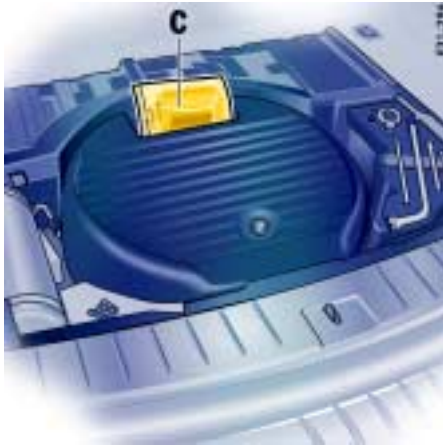
Removing the collapsible spare wheel

1. Take out rotary knob **A** and put it on bolt **B**.
2. Unscrew the bolt and take out the collapsible spare wheel.

Installing the collapsible spare wheel

1. Insert collapsible spare wheel.
2. Screw in bolt **B**.
3. Place rotary knob **A** on bolt **B** and tighten it.

▷ ▷ ▷



Removing subwoofer

1. Withdraw the ignition key.
Remove the Porsche Entry & Drive control unit from the ignition lock in vehicles that contain this feature.
Please observe the chapter "REMOVING THE CONTROL UNIT FROM THE IGNITION LOCK" on Page 60.
2. Remove any existing tire sealant **C**.

3. Undo the two fastening nuts **D**.
4. Unscrew screw **E**.
5. Disconnect plug connection **F**.

6. Remove subwoofer housing.

Installing subwoofer

1. Insert subwoofer housing.
2. Connect plug connection **F**.
3. Tighten the two fastening nuts **D**.
4. Tighten screw **E**.
5. Place any existing tire sealant **C** in recess.



Removing battery

1. Withdraw the ignition key.
Remove the Porsche Entry & Drive control unit from the ignition lock in vehicles that contain this feature.
Please observe the chapter "REMOVING THE CONTROL UNIT FROM THE IGNITION LOCK" on Page 60.
2. Undo the 4 fastening nuts of the battery box.

3. Open the 4 clamps of the battery-box cover.
4. Remove the battery-box cover.

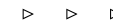


Danger!

Risk of short circuit and explosion.

- ▷ Disconnect the negative cable first, and then the positive cable.
5. Disconnect the negative cable.
 6. Disconnect the positive cable.

7. Pull off vent hose **G** on the battery.
8. Undo fastening nut **H** of battery fastening plate.
9. Remove battery fastening plate.
10. Lift battery out of the battery box using the folding handles.





5. Tighten battery fastening plate with fastening nut **H**.
6. Put on the battery-box cover carefully.
7. Engage the 4 clamps on the battery-box cover and close them.
8. Tighten the 4 fastening nuts of the battery box.

Installing the battery

1. Place battery in the battery box.
2. **Important:** Do not forget to connect vent hose **G** to the battery.
Make sure that both ends of the vent hose are properly connected.

! Danger!

Risk of short circuit and explosion.

- ▷ Connect the positive cable first, and then the negative cable.

-
3. Connect the positive cable.
 4. Connect the negative cable.

Emergency Starting with Jumper Cables

If the battery is discharged, e.g. in winter or after the car has been parked for a long time, the battery of another car can be used for starting with the help of jumper cables.

Make sure the voltage of both batteries is the same.

The capacity (Ampere hours, Ah) of the booster battery must not be substantially less than that of the discharged battery. The discharged battery must be correctly connected to the vehicle's electrical system.

- ▷ Please observe the chapter "BATTERY" on Page 296.

Note

Do not try to start the car by pushing or towing. Damage to the catalytic converters and other components of the car may result.



Warning!

Risk of damage and serious personal injury due to short circuit.

- ▷ Use only jumper cables of adequate diameter cross-section and fitted with completely insulated alligator clips.
- ▷ Follow all warnings and instructions of the jumper cable manufacturer.
- ▷ When connecting jumper cables, make sure that they cannot get caught in any moving parts in the engine compartment. The jumper cables must be long enough so that neither vehicles nor cables touch another.
- ▷ The vehicles must not be in contact, otherwise current might flow as soon as the positive terminals are connected.
- ▷ The cable clamps must not be allowed to contact each other when one end of the jumper cables are connected to a battery.
- ▷ Carefully ensure that tools or conductive jewelry (rings, chains, watch straps) do not come into contact with the positive jumper cable or the positive battery post.
- ▷ Improper hook-up of jumper cables can ruin the alternator.

Danger of caustic burns.

- ▷ Do not lean over the battery.

Danger of gas explosion.

- ▷ Improper use of booster battery to start a vehi-

cle may cause an explosion, resulting in severe personal injuries.

- ▷ Keep sources of ignition away from the battery, e.g. open flame, burning cigarettes or sparking due to cable contact or welding work.
- ▷ A discharged battery can freeze even at $-10^{\circ}\text{C}/14^{\circ}\text{F}$. Before connecting jumper cables, a frozen battery must be thawed out.

▷ ▷ ▷



Connecting jumper cables

Always observe the sequence below:

1. Remove cover **A**.
2. Open the cap of the positive terminal for jump starting(+).
3. Attach the positive lead first to the positive terminal for jump starting (+), then to the positive terminal of the donor battery.
4. Connect the negative lead first to the negative terminal of the donor battery, then to the grounding point for jump starting (-).

+ = Positive terminal for jump starting
 - = Grounding point for jump starting

5. Run the engine of the donor car at a higher speed.
6. Start the engine.
 An attempted start using jumper cables should not last more than 15 seconds. Then allow a waiting period of at least one minute.
7. Disconnect the negative jumper cable from the ground point for jump starting (-) first, then from the negative terminal of the donor battery.

8. Disconnect the positive jumper cable from the positive terminal of the donor battery first, then from the positive terminal for jump starting (+).
9. Close the cap of the positive terminal for jump starting (+).

Charging the battery

Your authorized Porsche dealer will be pleased to advise you about a suitable charger.

1. Always observe the instructions of the charger manufacturer.
2. When charging the battery, ensure adequate ventilation.
3. Check the acid level of a low-maintenance battery.
4. Connect charger to the jump starting points. Only plug into the mains and switch the charger on when it has been correctly connected up.
5. After charging, disconnect the charger.
6. Check the acid level of a low-maintenance battery.

After charging the battery

After the battery is connected or the **completely** discharged battery is charged, the PSM warning light lights up on the instrument panel and a message appears on the multi-purpose display of the instrument panel to indicate a fault.

This fault can be remedied with a few simple steps:

1. Start the engine.
To do this, turn the ignition key or the control unit (on vehicles that have Porsche Entry & Drive) to ignition lock position **2 twice**.
2. Perform a few steering movements to the left and to the right when vehicle is standing and drive a short distance in a straight line until the PSM warning light goes out and the message is erased from the memory of the multi-purpose display of the instrument panel.
3. If the warnings does **not** go out, then:
Drive carefully to the nearest authorized Porsche dealer.
Have the fault remedied by an authorized Porsche dealer.
4. After the warnings disappear:
Stop the vehicle in a suitable place.
5. Perform adaptation of the power windows:
Please observe the chapter "STORING FINAL POSITION OF THE DOOR WINDOWS" on Page 30.
6. On vehicles with tire pressure monitoring system:
Please observe the chapter "SYSTEM LEARNING PHASE" on Page 92.



Replacing the remote control battery

Note

- ▷ Please dispose batteries in compliance with any and all government regulations.

If the battery in the remote control becomes too weak, a warning will appear on the multi-purpose display in the instrument panel. The battery should be changed if this should be the case.

Changing the battery

1. Carefully pry out the lid on the back of the key housing with a small screwdriver.
2. Replace battery (observe polarity).
A replacement battery is available from your authorized Porsche dealer.
3. Replace cover and press together firmly.

Bulb Chart

	Type, rating
Exterior lights	
Halogen low beam	H7
Xenon low beam and high beam	D1S
Side marker light, rear	P21/5W
Side marker light, front	W5W
Turn signal light, rear	P21W
Turn signal light, front	PY21W
Brake light	P21W
Halogen high beam	H7
License plate light	C5W
Fog light	H11
Rear fog light	P21/4W
Back up light	P21W
Side indicator light	W5W
Additional high beam	H7
Cornering light	H3
Interior lights	
Interior light, front	W5W
Reading light	W5W
Engine compartment light	W5W
Footwell light	W5W
Glove compartment light	W5W
Center console	W5W
Luggage compartment light	K12V10W
Curb lights	W5W
Warning lights	W5W

Replacing Bulbs

Warning!

Danger of short circuit.

- ▷ Always switch off the relevant consumer when changing bulbs.

Danger of injury. The headlights are under high voltage when installed.

- ▷ Exercise extreme caution when working in the area of the headlights.

Risk of damage. Bulbs of a higher wattage can damage the light housing.

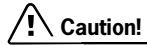
- ▷ Only use the bulbs specified in the bulb chart.
- ▷ Bulbs must be clean and free from oil, grease or fingerprints.
- ▷ Never touch bulbs with your bare hands. Use a cloth or soft paper when replacing bulbs.
- ▷ Always carry spare bulbs with you. In certain countries, the carrying of spare bulbs is mandatory.

Caution!

Risk of damage to headlights due to excessive temperatures and abrasion.

- ▷ Attach no coverings (e.g. films, ^astone guards^a) 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.

- ▷ Do not affix any coverings (e.g. "stone guards" or films) in the area of the headlights.



Removing headlights

1. Switch off ignition and withdraw the ignition key.
2. Push down cover **A** in the direction of the arrow and remove.



B - Headlight release

C - Wing

D - Socket wrench

3. Take socket wrench **D** out of the tool kit.
4. Push socket wrench **D** onto the release and turn in the direction of the arrow.
The headlight holder has now been unlocked.
5. Pull headlight forward out of the fender.



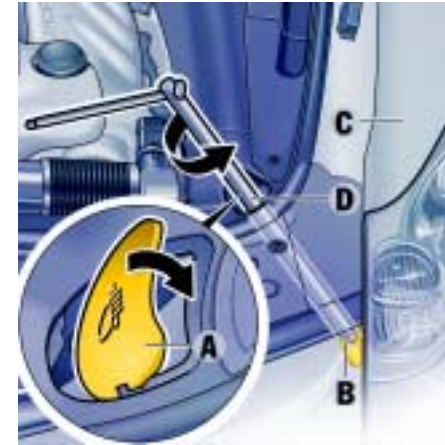
B - Headlight release
C - Wing
D - Socket wrench



B - Headlight release
C - Wing
D - Socket wrench

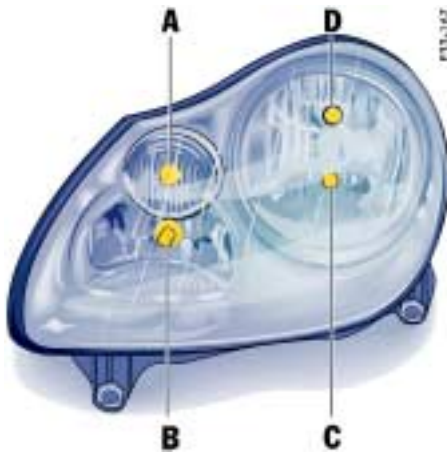
Installing headlight

1. Insert headlight into the guide rails and push fully into the fender.
2. Push headlight to the rear and simultaneously turn socket wrench **D** in the direction of the arrow.
The headlight locking device must perceptibly and audibly engage.



3. **B**-Headlight release
C-Wing
D-Socket wrench

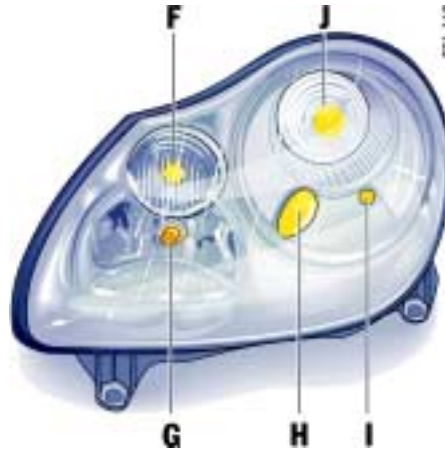
4. Check whether the headlights are seated securely.
5. Fit cover **A** and fold it down.



Location of bulbs

Halogen headlight

- A Bulb for turn signal
- B Bulb for high beam
- C Bulb for side light
- D Bulb for low beam



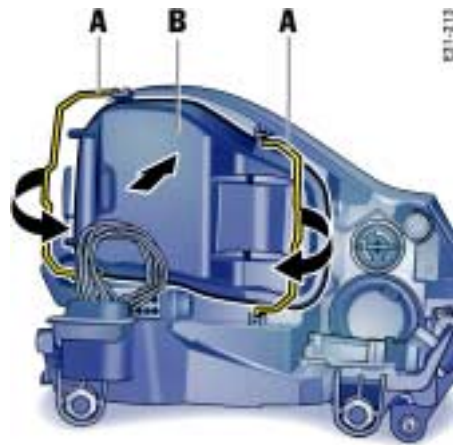
Bi-Xenon headlight

- F Bulb for turn signal
- G Bulb for additional high beam
- H Bulb for cornering light
- I Bulb for side light
- J Xenon gas discharge lamp for low beam and high beam



Opening the lid of the headlight housing

1. Open both clips **A**.
2. Remove housing lid **B**.



Closing lid of headlight housing

1. Put housing lid **B** on and press into place.
2. Close clips **A**.





Halogen headlight

Changing bulb for low beam of halogen headlight

1. Unclip securing clip **D**.
2. Pull off plug **C**.
3. Replace defective bulb.

Note on operation

- ▷ Make sure the bulb is installed in the correct position.
4. Reassemble in reverse order.



Changing side light bulb in Halogen headlight

1. Pull the bulb holder out of lamp bracket.



2. Pull bulb out of the holder (**arrow**).
3. Replace defective bulb.
4. Reassemble in reverse order.



Changing bulb for high beam of halogen headlight

1. Remove cover **G**.



2. Pull plug **J** off the bulb.
3. Unclip securing clip **H**.
4. Pull bulb **I** out.
5. Replace defective bulb.

Note on operation

- ▷ Make sure the bulb is installed in the correct position.
6. Reassemble in reverse order.

▷ ▷ ▷



Bi-Xenon headlight

Changing Xenon gas discharge lamp for low beam and high beam

1. Unclip securing clip **G**.
2. Pull off holder **H**.
3. Replace defective bulb.

Note on operation

- ▷ Make sure the bulb is installed in the correct position.
4. Reassemble in reverse order.



Changing cornering light in Bi-Xenon headlight

1. Unclip securing clip (**arrow**).
2. Pull plug **I** off the bulb.
3. Replace defective bulb.

Note on operation

- ▷ Make sure the bulb is installed in the correct position.
4. Reassemble in reverse order.



Changing side light bulb in Bi-Xenon headlight

1. Pull out the lamp for low beam and high beam.
2. Pull the bulb holder out of lamp bracket.

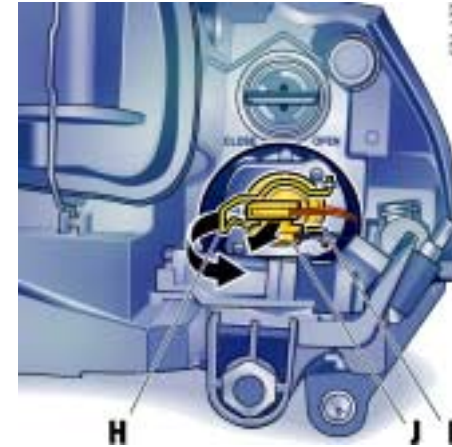


3. Pull bulb out of the holder (**arrow**).
4. Replace defective bulb.
5. Reassemble in reverse order.



Changing additional high beam light

1. Remove cover **G**.



2. Pull plug **J** off the bulb.
3. Unclip securing clip **H**.
4. Pull bulb **I** out.
5. Replace defective bulb.

Note on operation

- ▷ Make sure the bulb is installed in the correct position.
- 6. Reassemble in reverse order.

▷ ▷ ▷



Changing turn signal bulb

1. Turn bulb holder in the headlight housing anti-clockwise and pull it out.



2. Remove bulb from the holder (bayonet mount). To do this, push bulb into the holder and twist in the direction of the arrow.
3. Replace defective bulb.
4. Insert bulb holder into the headlight housing and turn it clockwise until it engages.



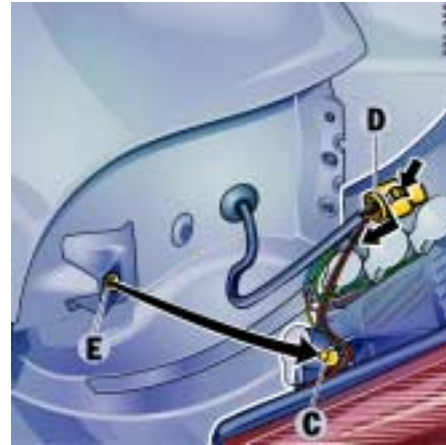
Tail Light

Removing tail light

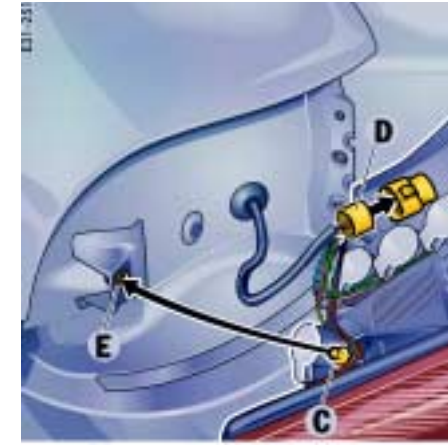
Maintenance note

▷ The ignition key must be withdrawn before the tail light is removed.

1. Open rear lid.
2. Remove the two caps **A** with a tool such as a screwdriver.
3. Unscrew the two screws **B**.



4. Pull out the light unit to the side in the **direction of the arrow** and additionally pull it out in the area of the ball head **C**.
5. Remove connecting plug **D**.



Installing tail light

1. Insert connecting plug **D**.
2. Insert ball pin of tail light **C** into clip nut **E** and fit the tail light into the body (**arrow**).

▷ ▷ ▷

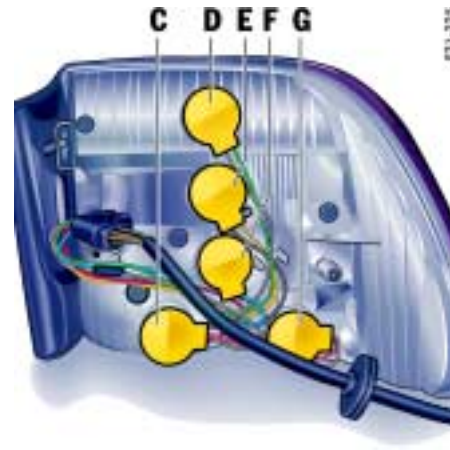
321-323



3. Screw in the fastening screws **B**.
4. Press in caps **A**.

Replacing bulbs

1. Twist holder of the respective bulb out of the reflector and remove.
2. Push bulb into the holder, twist in the direction of the arrow and remove (bayonet lock).
3. Replace defective bulb.
4. Insert bulb and twist into the holder.
5. Observe wire routing.
6. Install tail light.



321-325

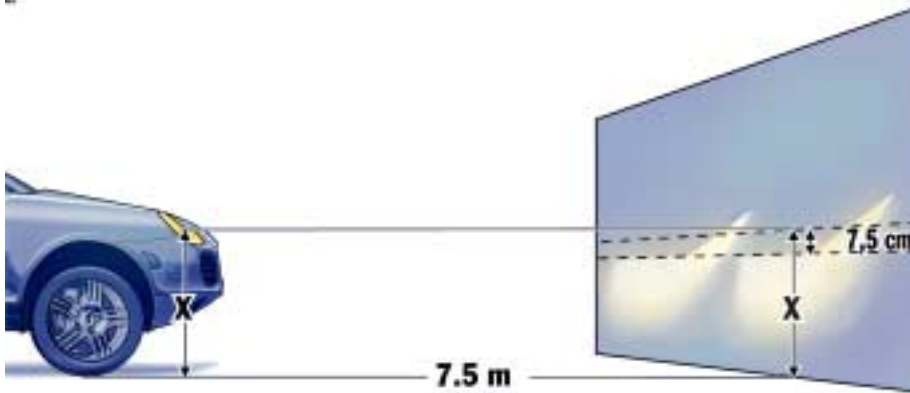
- C** - Brake light
- D** - Turn signal light
- E** - Reversing light
- F** - Tail light
- G** - Rear fog light and tail light



License Plate Lights

Changing bulb for license plate light

1. Unscrew both screws **A** and remove the light.
2. Push the bulb holder apart and pull the bulb out.
3. Replace defective bulb.
4. Reassemble in reverse order.



Headlight Adjustment

- ▷ Check tire pressure and adjust if necessary.
- ▷ Please observe the chapter “TIRE PRES-SURES, COLD” on Page 335.
- ▷ Please observe the chapter “REPLACING BULBS” on Page 311.

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 165lbs. (75kg) weight and the tire pressures must meet the prescribed values. After being loaded, the car must be rolled a few meters so that the suspension can settle.

For checking the headlight adjustment, the vertical position of the cutoff of the lowbeam (see fig.) has to be projected on a vertical screen (wall) in distance of 7.5 m (24.6 ft.) from the front lens of the headlamp. The correct position of the cutoff is 5 cm (3.0 in.) at 7.5 m or 24.6 ft. (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 7.5 m (this value is a rounded down conversion from the 25-foot distance typical of field aim using a screen). The 7.5 m (24.6 ft.) 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 1 m (3.3 ft.) of space outboard of the vehicle's headlamp spacing.



Changing Headlights from Left to Right-Hand Traffic

If you travel to a corresponding country where traffic uses the other side of the road, the headlights must be partially masked with films when you cross the border.

- ▷ You can obtain the films and a set of instructions from an authorized Porsche dealer.

Height adjustment for low beam/ high beam and additional high beam

1. Push down cover in the engine compartment and remove.
2. Switch ignition on.
3. Switch on low beam and/or high beam.
4. Adjust low beam in direction of the arrow.

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 kit.



Caution!

Risk of damage to the vehicle.

- ▷ 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 apparatus if the vehicle will roll freely. Under no circumstances is the vehicle to be secured using the towing hook.



- ▷ Never use the towing hook to tow this or any other vehicle.

Front and rear mounting

1. Carefully lever out the appropriate plastic cover **A** in the bumper with the blade of a screwdriver. The cover is captive and need not be removed completely.

2. Screw in towing hook **B** as far as the stop (left-hand thread) and tighten hand-tight.



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.



Towing hook

Depending on the vehicle equipment, the spare-wheel well contains one or two towing hooks.

Screwing in the towing lug

- ▷ Carefully remove the appropriate plastic cover **A** in the bumper with the blade of a screwdriver. The cover is captive and need not be removed completely.



- ▷ Screw in towing lug **B** as far as the stop (left-hand thread) and tighten hand-tight.

Recovering the vehicle

Depending on the vehicle equipment, the spare-wheel well contains one or two towing lugs.

- ▷ When recovering the vehicle, always use two towing lugs if possible. Screw in the towing lugs only at the front or rear. Never screw them in so that one towing lug is at the front and one is at the back.

Vehicle Identification, Technical Data

Vehicle Identification.....	330
Engine Data	332
Transmission	333
Tires, Rims, Tracks	334
Tire Pressures, Cold.....	335
Capacities	336
Weights	337
Driving Performance.....	338
Dimensions.....	339
Ground Clearance	340



This label contains the following information:

1. Vehicle Identification No.
2. Type/Type description
3. Engine code/Transmission code
4. Paint No./Interior
5. Optional equipment

A duplicate of this label is in your Maintenance Booklet.

Note

The data bank can not be reordered when lost or damaged.

Vehicle Identification

When ordering spare parts or making inquiries, please always quote the vehicle identification number.

Data bank

The data bank is located in the passenger compartment below the steering wheel. It contains all important data about your car.



Vehicle identification number

In accordance with Federal Safety Regulations, the vehicle identification number of your car is located at the bottom left of the windshield frame and can be seen from the outside and in the luggage compartment on the right in front of the tool box.



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 **Gross Vehicle Weight Rating** and the **Gross Axle Weight Rating**.



Tire pressure plate

The tire pressure plate is fitted to the driver's door.

Engine Data

	Cayenne S	Cayenne Turbo
Type	Four-cycle spark-ignition engine	Four-cycle spark-ignition engine
Number of cylinders	8	8
Bore	93 mm (3.66 in.)	93 mm (3.66 in.)
Stroke	83 mm (3.27 in.)	83 mm (3.27 in.)
Displacement	4511 cm ³ (275 cu. in.)	4511 cm ³ (275 cu. in.)
Compression ratio	11.5 : 1	9.5 : 1
Net-horsepower, SAE J 1349 at engine speed	250 kW (340 HP) 6000 rpm	331 kW (450 HP) 6000 rpm
Net. torque, SAE J 1349 at engine speed	420 Nm (310 ftlb.) 2500 - 5500 rpm	620 Nm (460 ftlb.) 2250 - 4750 rpm
Engine oil consumption	up to 1.5 l/1000 km (1.58 quarts/600 miles)	up to 1.5 l/1000 km (1.58 quarts/600 miles)
Maximum permitted engine speed	6500 rpm	6500 rpm

Transmission

Transmission ratio	Cayenne S	Cayenne Turbo
1st gear	4.15 : 1	4.15 : 1
2nd gear	2.37 : 1	2.37 : 1
3rd gear	1.56 : 1	1.56 : 1
4th gear	1.16 : 1	1.16 : 1
5th gear	0.86 : 1	0.86 : 1
6th gear	0.69 : 1	0.69 : 1
Reduction gear	2.70 : 1	2.70 : 1
Reverse gear	3.39 : 1	3.39 : 1
Final drive ratio	4.10 : 1	3.70 : 1

Tires, Rims, Tracks

	Tires	Wheel	Rim offset	Track	
				front	rear
Summer tires	255/55 R 18 109 Y ¹⁾	8 J x 18	57 mm	1647 mm (64.8 in.)	1662 mm (65.4 in.)
	275/45 R 19 108 Y	9 J x 19	60 mm	1641 mm (64.6 in.)	1656 mm (65.2 in.)
	275/40 R 20 106 Y	9 J x 20	60 mm	1641 mm (64.6 in.)	1656 mm (65.2 in.)
Winter tires	235/60 R 18 107 H ¹⁾	8 J x 18	57 mm	1647 mm (64.8 in.)	1662 mm (65.4 in.)
All-Season	255/55 R 18 109 V ¹⁾	8 J x 18	57 mm	1647 mm (64.8 in.)	1662 mm (65.4 in.)
All-Terrain	235/60 R 18 107 T ¹⁾	8 J x 18	57 mm	1647 mm (64.8 in.)	1662 mm (65.4 in.)
	<p>The load capacity coefficient (e.g. "106") and maximum speed code letter (e.g. "T") for permitted top speed are minimum requirements. When fitting new tires or changing tires: Please observe the chapter "TIRES/WHEELS" on Page 259.</p>				
Tire and rim sizes	<p>The authorisation of tire and rim sizes is granted on the basis of extensive testing. Your authorized Porsche dealer will be pleased to advise you about the current authorisation status. Refitting with sizes not authorized by Porsche may have a dangerous effect on driving stability.</p>				
Snow chains	<p>Snow chain clearance can be guaranteed only with the tire + rim combination marked ¹⁾. The best possible handling characteristics are achieved when snow chains are fitted on all four wheels of the vehicle. However, it is also possible to fit snow chains on only one axle (preferably the rear axle). For safety reasons, vehicles with snow chains must not be driven faster than 50 km/h (30 mph).</p> <ul style="list-style-type: none"> ▷ Observe the respective road traffic regulations. ▷ Use only Porsche-authorized fine-link cross-type or edge chains. 				
Collapsible spare wheel	195/75 18	6.5 J x 18			

Tire Pressures, Cold

Partially loaded	Cayenne S/Cayenne Turbo	
Tire size	Front axle	Rear axle
235/60 R 18	2.6 bar (38 psi)	2.9 bar (43 psi)
255/55 R 18		
275/45 R 19		
275/40 R 20		
195/75 - 18 collapsible spare wheel	3.5 bar (51 psi)	3.5 bar (51 psi)

Fully loaded	Cayenne S/Cayenne Turbo	
Tire size	Front axle	Rear axle
235/60 R 18	2.6 bar (38 psi)	3.4 bar (50 psi)
255/55 R 18		
275/45 R 19		
275/40 R 20		
195/75 - 18 collapsible spare wheel	3.5 bar (51 psi)	3.5 bar (51 psi)

These tire filling pressures apply only to the tire makes and types approved by Porsche.
Please observe the chapter "TIRES/WHEELS" on Page 259.

Capacities

Use only fluids and fuels authorized by Porsche. Your authorized Porsche dealer will be pleased to advise you. Your Porsche has been designed so that it is not necessary to mix any additives with oils or fuels.

	Cayenne S	Cayenne Turbo
Engine oil change quantity without oil filter	approx. 8.0 litres (8.5 quarts)	approx. 8.0 litres (8.5 quarts)
Engine oil change quantity with oil filter	approx. 8.5 litres (9.0 quarts)	approx. 8.5 litres (9.0 quarts)
	Reference indication is the level on the oil dipstick. Please observe the chapter "ENGINE OIL LEVEL" on Page 228.	
Coolant	approx. 9.2 litres (2.4 U.S. gallons)	approx. 10 litres (2.6 U.S. gallons)
Automatic transmission with torque converter	approx. 9.0 litres (9.5 quarts)	approx. 9.0 litres (9.5 quarts)
Transfer box	approx. 0.85 litre (0.9 quarts)	approx. 0.85 litre (0.9 quarts)
Front-axle differential	approx. 1.0 litre (1.1 quarts)	approx. 1.0 litre (1.1 quarts)
Rear-axle differential	approx. 1.4 litres (1.5 quarts)	approx. 1.4 litres (1.5 quarts)
Fuel tank	approx. 100 litres (26.4 U.S. gallons), including approx. 15 litres (4 U.S. gallons) reserve	approx. 100 litres (26.4 U.S. gallons), including approx. 15 litres (4 U.S. gallons) reserve
Fuel quality	The engine is designed to provide optimum performance and fuel consumption if unleaded premium fuel with 98 RON/88 MON is used. If unleaded premium fuels with octane numbers of at least 95 RON/85 MON are used, the engine's "Electronic Oktane™ knock control" automatically adapts the ignition timing.	
Power steering	approx. 1.5 litres (1.6 quarts) Pentosin CHF 11 S®	approx. 1.5 litres (1.6 quarts) Pentosin CHF 11 S®
Brake fluid	approx. 0.95 litre (1.0 quart)	approx. 0.95 litre (1.0 quart)
	Use only Original Porsche brake fluid.	
Window/headlight washer system	approx. 7.5 litres (7.9 quarts)	approx. 7.5 litres (7.9 quarts)

Weights

	Cayenne S	Cayenne Turbo
Empty weight		
Empty weight (depending on equipment)		
per DIN 70020	2245 - 2580 kg (4949 - 5688 lbs.)	2355 - 2650 kg (5192 - 5842 lbs.)
Maximum axle load, front ¹⁾	1455 kg (3208 lbs.)	1460 kg (3219 lbs.)
Maximum axle load, rear ¹⁾	1680 kg (3704 lbs.)	1700 kg (3748 lbs.)
Maximum gross weight	3060 kg (6746 lbs.)	3080 kg (6790 lbs.)
Trailer operation Canada/USA		
Maximum gross weight	3060 kg (6746 lbs.)	3080 kg (6790 lbs.)
Maximum axle load, front/rear axle	1455/1725 kg (3208/3803 lbs.)	1460/1725 kg (3219/3803 lbs.)
Roof load		
Maximum roof load ²⁾	100 kg (221 lbs.)	100 kg (221 lbs.)
Towing capacity/vehicle + trailer weight		
Maximum towing capacity, braked	3500 kg (7716 lbs.)	3500 kg (7716 lbs.)
Maximum towing capacity, unbraked	750 kg (1654 lbs.)	750 kg (1654 lbs.)
Maximum vehicle + trailer weight	6560 kg (14462 lbs.)	6580 kg (14506 lbs.)
Maximum trailer hitch load	280 kg (617 lbs.)	280 kg (617 lbs.)

¹⁾ The maximum gross weight must not be exceeded.

Note: If additional equipment is installed, the useful load will be correspondingly less.

²⁾ Use only Original Porsche Roof Transport System.

Driving Performance

The specifications refer to a vehicle at DIN empty weight and max. 200 kg load or 441 lbs., without performance-inhibiting extra equipment (e.g. special tires)

	Cayenne S	Cayenne Turbo
Top speed	242 km/h (150 mph)	266 km/h (165 mph)
Acceleration 0 - 100 km/h (62 mph)	7.2 seconds	5.6 seconds

Dimensions

	Cayenne S	Cayenne Turbo
Length	4782 mm (188.3 in.)	4786 mm (188.4 in.)
Length with external spare wheel	5018 mm (197.6 in.)	5021 mm (197.7 in.)
Width	1928 mm (75.9 in.)	1928 mm (75.9 in.)
Height at DIN empty weight	1699 mm (66.9 in.)	1699 mm (66.9 in.)
Height at DIN empty weight (rail)	1741 mm (68.5 in.)	1741 mm (68.5 in.)
Height at DIN empty weight (basic carrier of Roof Transport System)	1789 mm (70.4 in.)	1789 mm (70.4 in.)
Max. wading depth	500 mm (19.7 in.) ¹⁾	555 mm (21.9 in.)
Track		
18" front	1647 mm (64.8 in.)	1647 mm (64.8 in.)
18" rear	1662 mm (65.4 in.)	1662 mm (65.4 in.)
19" front	1641 mm (64.6 in.)	1641 mm (64.6 in.)
19" rear	1656 mm (65.2 in.)	1656 mm (65.2 in.)
20" front	1641 mm (64.6 in.)	1641 mm (64.6 in.)
20" rear	1656 mm (65.2 in.)	1656 mm (65.2 in.)
Wheelbase	2855 mm (112.4 in.)	2855 mm (112.4 in.)
Overhang, front	924 mm (36.4 in.)	927 mm (36.5 in.)
rear	1003 mm (39.5 in.)	1004 mm (39.5 in.)
Turning circle	11.9 m (468.5 in.)	11.9 m (468.5 in.)

¹⁾ Up to 555 mm (21.9 in.) for vehicles with air suspension at special terrain level.

Ground Clearance

	Cayenne S	Cayenne Turbo
Steel suspension		
Ramp angle	20.4°	
Overhang angle, front	29.1°	
Overhang angle, rear	25.7°	
Ground clearance (center of axles)	217 mm (8.5 in.)	
Air suspension – normal level		
Ramp angle	20.4°	20.4°
Overhang angle, front	29.1°	29.1°
Overhang angle, rear	25.7°	24.8°
Ground clearance (center of axles)	217 mm (8.5 in.)	217 mm (8.5 in.)
Air suspension – low level		
Ramp angle	17.7°	17.7°
Overhang angle, front	27.3°	27.3°
Overhang angle, rear	23.7°	22.8°
Ground clearance (center of axles)	190 mm (7.5 in.)	190 mm (7.5 in.)
Air suspension – loading level		
Ramp angle	14.9°	14.9°
Overhang angle, front	24°	24°
Overhang angle, rear	21.7°	20.9°
Ground clearance (center of axles)	157 mm (6.2 in.)	157 mm (6.2 in.)
Air suspension – terrain level		
Ramp angle	22.2°	22.2°
Overhang angle, front	30.7°	30.7°
Overhang angle, rear	26.6°	25.7°
Ground clearance (center of axles)	243 mm (9.6 in.)	243 mm (9.6 in.)

	Cayenne S	Cayenne Turbo
Air suspension – special terrain level		
Ramp angle	24.7°	24.7°
Overhang angle, front	32.4°	32.4°
Overhang angle, rear	28.3°	27.3°
Ground clearance (center of axles)	273 mm (10.7 in.)	273 mm (10.7 in.)

Index

Numerics

2-way radio 167

A

ABD 204, 206, 208
ABS 204, 207, 210
 Off road 211
 Warning light 210
After driving off road 213
Aftermarket Alarms 166
Air cleaner 237
Air conditioning
 Central vents 135, 140
 Childproof locks 138
 Control panel, rear 138
 Cover flap 132
 Display 133, 137
 Footwell 135, 140
 Four zone 137
 Fresh-air intake 131
 Mono function 134, 139
 Rear 138, 141
 REST mode 136, 141
 Sensors 132
 Setting air quantity 134, 139
 Setting temperature 134, 139
 Side vents 135, 140
 Two zone 133
 Vents 131
 Windshield 135, 140

Air quantity
 Setting 134, 139
Air suspension 156, 172, 204, 220
Airbag 51, 255
 Disposal 52
 Function 51
 Unit 53
 Warning light 52
Air-conditioned areas
 Rear 141
Air-conditioning compressor 133, 136, 141
Alarm button 17
Alarm system 21, 23, 26, 27, 29, 190, 286
Alcantara 255
All-Season tires 334
All-Terrain tires 334
All-wheel drive 117, 204, 206
Anti-freeze content 232
Anti-lock brake system 204, 207, 210
Armrest 169, 171
Ashtray
 Front 162
 Rear 163
Assembly aid 277, 282
Audio
 Tips 164
AUTO button 133, 134, 137, 139
Automatic anti-dazzle operation 59
Automatic brake differential 204, 206, 208
Automatic circulating-air mode 135, 140
Automatic mode, air conditioning 133, 134, 139
Automatic transmission fluid 237

B

Battery 82, 168, 296
 After charging 308
 Care 296
 Charge state 296
 Charging 308
 Installing 306
 Putting vehicle into operation 297
 Removing 304, 305
 Removing/installing 299, 303
 Replacing 298
 Vehicle key 309
 Warning light 115
 Winter driving 297
Before driving off 12, 213
Belts 44
 Fastening 46
 Height adjustment 47
 Opening 46
 Tensioner 45
 Warning light 45
Brake 65
 Booster 66
 Discs 67
 Pads 67
 Warning light 65
Brake fluid
 Changing 235
Brake light 322
Brake tests 211
Brake wear

Warning light	67	Child seat bracket.....	50	Accelerating.....	128
Brake-fluid level		Child seats	50	Decelerating	128
Checking.....	234	Installing.....	50	Interrupting	129
Brakes.....	64, 211	Childproof locks		Speed limit	127
Fluid.....	234, 336	Air conditioning.....	138	Storing speed	128
Fluid warning light	116, 235	Rear doors	25	Switching off.....	129
Pads	14, 68	Cigarette lighter.....	162	Switching on	128
Test stand.....	211	Circulating-air mode	135, 140	Cupholder.....	169, 173
Warning light	64	Circulating-air mode, automatic	135, 140	Closing rear	174
Wear	116	Cleaner		Opening front.....	173
Bulbs		Air.....	237	opening rear	174
Changing.....	322	Particle.....	237	Removing insert front	173
Chart	310	Clock	81, 105		
C		Closing mechanism, power	176	D	
Capacities	336	Coin holder.....	169	Data bank.....	330
Car care.....	247	Collapsible spare wheel	96, 209, 278, 303, 334	Dimensions.....	339
Car Telephone	166	Warning light.....	114	Dimming.....	150
Care	251, 253, 254, 255	Comfort function		Button	148
Carpet	254	Sliding/lifting roof.....	152	Dipped beam	120, 150
Catalytic converter.....	246	Comfort lighting	150	Switch	120
Center console	169	Coming Home function	110, 150	Direction indicator light	
Center differential lock	203	Communication systems.....	167	Indicator light.....	76
Central locking system	21, 286	Compass.....	106	Rear	322
Button.....	22	Compressor	271, 279	Switch	123
Button (rear).....	22, 29	Coolant		Direction indicator pilot light	
Locking vehicle doors	21	Checking	232	Indicator light.....	76
Unlocking vehicle doors.....	21	Cooling system.....	79	Direction indicator/high beam/headlight flasher	
Central vents.....	135, 140	Engine coolant level warning	79	stalk.....	123
Changing wheels.....	272, 277	Temperature gauge.....	79	Door lock	
Check engine	83	Warning.....	79	Deicing.....	249
Checking hydraulic fluid (power steering)	236	Cornering light.....	121, 318	Door locking, automatic.....	23, 108
Child restraint anchorages.....	48	Crankcase ventilation	246	Door mirrors.....	57, 150, 189
Child restraint systems.....	49	Crossing obstacles	219	Automatic anti-dazzle operation	59
		Cruise control		Driving with a trailer.....	189

Extending.....	58	Road.....	195, 197, 203	Engine drag torque control.....	208
Folding in.....	58	Driving systems for off-road driving.....	212	Engine Oil	
Heating.....	58	Driving with a trailer.....	158, 189, 337	Performance class.....	231
Setting.....	58	Drop-center rim.....	268	Viscosity.....	231
Swivelling, automatic.....	58			Engine oil.....	227
Door opening ...	19, 20, 21, 23, 24, 25, 108			Change.....	230
Emergency operation.....	18			Level.....	228
Door trim panel.....	169	E		Recommendation.....	230
Lighting.....	150	Easy Entry function.....	36	Temperature gauge.....	78
Doors.....	25	ECON mode.....	136, 141	Topping up.....	229
Door-surrounding lighting.....	150	Button.....	133, 137	Engine oil level.....	228
Drinks holder.....	169, 173	Electrical system.....	286	Checking.....	228
Closing rear.....	174	Emergency operation		Warning.....	228
Opening front.....	173	Door lock.....	23	Engine residual heat.....	136, 141
opening rear.....	174	Doors.....	18	Entry aid.....	36
Removing insert front.....	173	Ignition key.....	18	Switching on and off.....	36
Driving		Sliding/lifting roof.....	153	Exhaust gas	
Load.....	180	Emergency starting.....	307	Monitoring.....	5
Off road.....	212	Emergency unlocking		Monitoring warning light.....	70, 72, 115
Sand.....	218	Filler flap.....	242	Exhaust system.....	251
Trailer.....	190	Selector lever.....	200	Exit aid.....	36
Winter.....	199	Spare wheel bracket.....	284	Switching on and off.....	36
Driving downhill.....	215	Emission control.....	5, 7, 83		
Driving light assistant		Check engine warning light.....	83		
Light switch.....	120	Emission Control System.....	245		
Driving light assistant, automatic.....	121	Engine			
Driving performance.....	338	Boost pressure.....	82	F	
Driving program		Cooling system.....	79	Fabric linings.....	255
Off road.....	201, 202	Data.....	332	Filler flap.....	241
Reduced.....	199	Idling.....	194	Release.....	15
Road.....	202	Starting and stopping.....	62	Filling pressure.....	90
Driving programme		Engine compartment		Plate.....	331
Low Range indicator light.....	201	Cleaning.....	251	Reducing.....	279, 281
Off road.....	196, 198, 203	Lid.....	178	Tables.....	335
		Engine compartment lid		Warning light....	70, 72, 74, 76, 93, 114
		Warning light.....	118	Warning message.....	99
				Fire extinguisher.....	168

First aid kit	172
Floor mats.....	254
Fluids and fuels.....	336
Fog lights.....	120
Folding wedges	273
Footbrake	65
Warning light	65
Footwell light	150
Fresh-air intake	131
Front seat with memory.....	34, 35
Front seats.....	32, 169
Adjusting the seats.....	32
Seat position	32
Front windshield wiper	126
Fuel	80, 241
Economy.....	240
Evaporation control.....	244
Level gauges	80
Recommendations	243
Fuel containers, portable.....	6, 244
Fuel gauge	80
Fuel quality.....	7
Function keys	55
Lighting	56
Fuse assignment.....	289
Fuses.....	287

G

Garage door opener.....	160
Allocating	161
Changeable code system.....	161
Deleting.....	161
Fixed code system	161
Gas discharge lamp	318
Gear display	193
Glasses case.....	169
Glove compartment.....	169, 170
Gross weight	189
Ground clearance.....	339, 340

H

Hand-held transmitter	160, 161
Hands-free microphone.....	167
Hazard warning light switch	124
Headlight beam adjustment.....	113, 122, 189
Headlights	189, 253, 312
Bi-Xenon	314, 318
Changing for left-hand traffic	325
Closing the housing lid.....	315
Halogen.....	314, 316
Height adjustment	325
Opening the housing lid	314
Setting	324
Headrest	42
Installing.....	42
Removing	42
Setting	33, 42
Heated rear window	131, 132, 133, 137
Height adjustment.....	204, 220
High beam.....	120, 123

Indicator light.....	70, 72, 74, 76
Switch	123
High Range.....	89, 195, 197, 202, 203
On-road driving program	201
High-pressure cleaning units.....	248
Hillholder	211
Horn	53

I

Identification number	330
Idling.....	194
Ignition lock	60
Immobilizer	19
Inclination sensor	21, 23, 26, 29
Function indication.....	26
Monitored areas	27
Switching off.....	26
Switching off, temporarily	27
Switching on	26
Switching on, temporarily.....	27
Instrument panel	
Lighting	122
Interior light, front	148
Interior lighting	148
Interior mirror	57
ISOFIX system.....	50

J

Jack	222, 269
Jacking point	276
Jump lead starting	
Leads	308
Jumper cables	307, 308

K

Keys	17
Changing the battery	309
Emergency operation	18
Kickdown	196

L

Leather care	254
Left-hand traffic	325
Level control ... 89, 156, 172, 204, 220, 271	
Loading level	221, 222, 340
Low level	220
Normal level	220
Special low level	220
Special terrain level	220
Switching on and off	222
Warning light	222
License plate light	323
Lid	
Engine compartment	178
Engine compartment warning light	118
Luggage compartment	175
Seal	253
Lifting	
Garage lift	270

Jack	276
Platform	270
Light	
Flasher	123
Switch	120
Light alloy wheels	253
Inscription	268
Light segments	157
Lighter	
front	162
rear	163
Lights	189, 253
Changing	311
Chart	310
Load	180
Full	97
Partial	97
Securing (ski bag)	186
Stowing	180
Load fastening points	179
Loading level	221, 222, 340
Loadspace	179, 180
Loadspace floor	169, 179
Locking conditions	22
Locking the steering column	
With Porsche Entry & Drive	61
Without Porsche Entry & Drive	61
Locking, keyless	24
Immobilizer	24
Switching off readiness for operation	24
Unlocking vehicle doors	24
Locks	89
Low beam	318
Low level	220

Low Range	89, 196, 198, 202, 203
Indicator light	201
Off-road driving program	201
Luggage compartment	179
Luggage compartment cover	169, 181, 182
Luggage compartment lid	175, 176
Locking	24
Opening	24
Luggage net	179, 180
Luggage safety net	183, 184
Bracket	183

M

Main menu	86
Make-up mirror	146
Manual headlight beam adjustment	113, 189
Memory	34, 35
Microphone	167
Minor paint damage	250
Minor repairs	259
Mirrors	189
Door mirrors	57
Interior mirror	57
Mobile phone	167
Moving off	192, 195, 196
MSR	208
Multi-functional steering wheel	55
Function keys	55, 56
Multi-purpose display	84, 178
Basic screens	85
Clock	105
Collapsible spare wheel	96
Comfort	107
Compass	106

Porsche Communication Management.....	168
Porsche Entry & Drive	24, 175
Immobilizer.....	24
Opening/locking rear window.....	24
Opening/locking spare wheel bracket.....	24
Porsche Stability Management... ..	204, 207, 278
Deactivating	209
Indicator light.....	116
Information light.....	209
Off road	208
Switching on.....	209
Warning light .70, 72, 74, 76, 116, 209	
Porsche Traction Management.....	204, 205
Power measurement.....	226
Power steering.....	236
Power windows	28, 29, 30
Comfort function (windows).....	29
One-touch operation	29
Opening/closing windows	28
Readiness for operation.....	28
Storing end position	30
Switching off (rear).....	22, 29
Power-transmission.....	204
Preservation.....	250
Pressure tester.....	281
PSM	204, 207, 278
Deactivating	209
Indicator light.....	116
Information light.....	209
Off road	208
Switching on.....	209
Warning light .70, 72, 74, 76, 116, 209	
PTM.....	204, 205

R

Radiator fans	227
Radio	168
Tips	164
Radio remote control.....	17
Changing the battery	309
Rain sensor	125
Rain sensor operation	125
Reading light	
Front.....	148
Rear.....	149
Rear fog light.....	120, 322
Rear lid	175, 176
Locking	24
Opening	24
Unlocking	20
Rear light	321
Rear seats.....	37
Folding forward.....	37
Positioning.....	38
Rear window.....	177
Locking	24
Opening	20, 24
Unlocking	20
Rear window wiper	126
Rear-axle load	189
Reduction.....	89
Reflector	321
Refuelling	242
Relays.....	286
Release button.....	192
Relocking, automatic.....	21
Remote control.....	17
Changing the battery	309

Removing spots and stains	250
Reserve.....	242
REST button	133, 137
REST mode	136, 141
Reverse gear	159
Reversing light.....	322
Rims	213
Diameter	268
Rim width	268
Rocker switches	195, 196
Roof console	150, 169
Roof Transport System	187, 337, 339
Running in	
Tires	14
Running-gear control systems	204
Running-gear setup.....	223
Indicator light.....	116
Warning light.....	223

S

Safety belts	44, 255
Belt tensioner	45
Fastening.....	46
Height adjustment	47
Opening.....	46
Warning light.....	45
Safety catch, engine compartment lid.....	178
Safety compliance sticker	331
Safety net.....	169, 182, 183, 184
Assembly.....	184
Bracket	183
Permitted uses.....	183
Screwdriver	269
Sealant.....	95, 96, 102, 274

Factory settings.....	111
Language.....	110
Level.....	89
Lighting.....	110
Load.....	97
Locks/reduction.....	89
Main menu.....	86
Operation, controls.....	84
Settings.....	105
Spare wheel.....	95, 96
Speed limit.....	86
System.....	98
Tire pressure.....	90, 93
Tire sealant/sealing set.....	96
Tire type.....	94
Units.....	110
Vehicle info.....	88
Warnings.....	88
N	
Navigation system.....	168
Normal level.....	220
Number plate light.....	150
O	
Octane ratings.....	243
Odometer.....	80
Off delay.....	110, 150
Off-road ABS.....	211, 215
Off-road driving.....	212
Recommendation.....	213
Oil.....	227
Change.....	231
Consumption.....	14
Dipstick.....	229
Filler opening.....	229
Performance class.....	231
Temperature gauge.....	78
Topping up.....	229
Viscosity.....	231
Oil level.....	
Checking.....	228
On-board computer.....	84, 178
Basic Screens.....	85
Clock.....	105
Collapsible spare wheel.....	96
Comfort.....	107
Factory settings.....	111
Language.....	110
Level.....	89
Lighting.....	110
Load.....	97
Locks/reduction.....	89
Main menu.....	86
Operation, controls.....	84
Settings.....	105
Spare wheel.....	95, 96
Speed limit.....	86
System.....	98
Tire pressure.....	90, 93
Tire sealant/sealing set.....	96
Tire type.....	94
Units.....	110
Vehicle info.....	88
Warnings.....	88
Operating in other countries.....	240
Oxygen sensor.....	246
P	
Paint.....	250
Panic button.....	17
ParkAssist.....	155, 157, 190
Parking.....	199
Parking aid.....	35, 155
Parking brake.....	64
Test stand.....	211
Warning light.....	64, 116
Parking heater.....	142
Activating the memory.....	144
Faults.....	144
Programming.....	142, 143
Switching on and off.....	142
Parking light.....	123
Particle filter.....	237
PASM.....	204, 223
Display.....	223
Indicator light.....	116
Warning light.....	223
Passenger compartment.....	180
Passenger compartment monitoring system..	21, 23, 26, 27, 29
Passenger-seat drawer.....	168, 169, 172
PCM.....	168
Pen holder.....	169
Person buttons.....	34
Plastic parts.....	253
Polishing.....	250
Porsche Active Suspension Management....	204, 223
Display.....	223
Indicator light.....	116
Warning light.....	223

Warning light	114	Shifting up	198	Cayenne S	70, 72
Sealing set	274	Shock absorber adjustment	204	Cayenne Turbo	74, 76
Seals, care	253	Shock absorbers	204	Stability Management System	204, 207, 209
Seat heating	40, 138	Side lights	120, 316	Indicator light	116
For air-conditioned areas at the rear	41	Side marker light	150	Off road	208
Rear	138	Side vents	135, 140	Warning light	70, 72, 74, 76, 116
Switching off	40	Ski bag	185	Starting	192
Switching on	40	Sliding roof	151	Starting and stopping	62
Seat memory	34, 159	Closing	152	Steam-jet units	156
Recall using person buttons	34	Lifting	152	Steering lock	60
Recall using vehicle key	34	Opening completely	152	Steering wheel	53
Storage, automatic	35	Opening to comfort setting	152	Adjusting	54
Storing driver's seat settings	35	Readiness for operation	151	Heating	53
Storing parking aid	35	Sliding/lifting roof	151	Multi-functional steering wheel	55
Storing passenger seat settings	35	Closing	152	Shifting	196
Seat memory (comfort)	34	Lifting	152	Steering wheel buttons	55
Seat with memory	159	Opening completely	152	Lighting	56
Seats		Opening to comfort setting	152	Stopping	199
Front	32	Readiness for operation	151	Storage	16, 169
Position	32	Snow chains	267, 334	Storage compartment	169
Rear	37	Snow tires	266	At the sides in the luggage compartment ...	
Setting	32	Socket	286	169,	172
Security wheel bolts	271	Spare parts	330	Storage tray	
Selection mode		Spare wheel	95, 96, 278, 282, 303, 334	Armrest, front	171
Automatic	195, 196	Warning light	114	Armrest, rear	171
Manual	197, 198	Spare wheel bracket	175, 283, 284	Stowing luggage	180
Selector lever	192	Locking	24	Subwoofer	
Selector lever lock	200	Opening	24	Installing	304
Selector lever position	194	Unlocking	20	Removing	304
Display	192, 193	Special low level	220	Summer tires	334
Shifting		Special terrain level	220	Sun blind	147
Down	197	Speed code letter	268	Sun visors	146
On the steering wheel	195	Speed limit	95, 268	Switch on passenger airbag	
Up	197	Speedometer	78	Warning light	113

T

Tachometer	70, 72, 74, 76, 78
Tail light	321, 322
Tank opening	241
Telephone	166, 167
Temperature	
Sensor	133, 137
Setting	134, 139
Temporary change-down	195
Terrain level	220
Test stands	
Measurement	211
Theft protection	16
Through-load bag	185
Securing load	186
Through-load facility	185
Tie-down	
Belts	179, 180
Equipment	180
Rings	179, 183
Tiptronic	15, 53, 192
Rocker switches	53, 195, 196
Tire	
Care	262
Life	261
Traction	261
Wear	262
Tire and rim sizes	334
Tire pressure	90, 189
Load	180
Plate	331
Reducing	279, 281
Specifications	92
Tables	335

Warning light	70, 72, 74, 76, 93, 114
Warning message	99
Tire pressure monitoring system	90
Monitoring	98
System learning process	92
Tire sealant	95, 96, 102, 274
Warning light	114
Tires	259
Changing	168
Damage	263
Flat	273
Inflating	279, 280
Inscription	268
Replacing	263
Sidewall	268
Size	268
Tracks	334
Type	95
Valves	263
Tool kit	259
Screwdriver	269
Tools	259
Screwdriver	269
Towing	200, 326
Capacity	189
Hook	326, 328
Tow-starting	200
Tracks	334
Traction	214
Management	205
Systems	204
Trailer	
Coupling	188
Hitch	188

Hitching	190
Unhitching	190
Transmission	333
Transport	27, 222
Turn signal light	320
Indicator light	70, 72, 74
Turn signal pilot light	
Indicator light	70, 72, 74

U

Ultrasonic measurement	158
Ultrasound sensors, ParkAssist	156
Ultrasound sources	158
Undersealing	251
Unlocking, keyless	24
Immobilizer	24
Uphill driving	214
Traction	214

V

Vehicle	
Battery	168, 296, 308
Care	247
Data bank	330
Identification number	330
Keys	17, 309
Laying up	256
Lowering	222
Putting into operation	297
Raising	221, 222
Recovery	328
Securing against rolling	273
Storage	297

Transport	27, 222	Tracks.....	334
Washing	248	Wheel balancing	211, 264
Vehicle door		Windows	251
Locking	20, 24	Windshield	135, 140, 235
Unlocking	20	Windshield wiper/washer stalk	125
Vehicle key		Windshield wipers	178, 238
Battery.....	309	Blades.....	251
Ventilation	132, 133, 137	Front.....	126
Vents	131	Rear.....	126
Central.....	135, 140	Switch.....	125
Footwell	135, 140	Winter	
Side.....	135, 140	Driving	297
Vertical coupling load.....	189	Tires	334
Voltmeter	82	Wiper blades	238, 251
Battery/generator warning.....	82	Changing.....	238, 239
		Working on your vehicle.....	226

W

Warning triangle.....	172
Warnings.....	88
Washer fluid	
Level.....	235
Topping up	235
Washer system, windshield wipers.....	126, 127
Washing	248
Water crossing	216
Weights.....	337
Wheel alignment	264
Wheel bolts	271
Removing	277, 282
Wheel change.....	267
Wheels.....	253, 259
Adjusting	264
Change	272, 277
Storing.....	265