



Dear Owner,

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

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

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

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

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

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

**For U.S. only:**

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

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

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

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

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

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

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

The fitting of racing tires (e.g. slicks) for sporting events is not approved by Porsche. Very high cornering speeds can be achieved with racing tires. However, the resulting transverse acceleration values would jeopardize the adequate supply of oil to the engine.

Porsche therefore will not accept any warranty or accept any liability for damage occurring as a result of non-compliance with this provision.

Regularly check your vehicle for signs of damage.

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

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

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

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

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

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

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

### Important

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

- † Do not alter your Porsche. Any alteration could create dangerous conditions or defeat safety engineering features built into your car.
- † Do not misuse your Porsche. Use it safely, and consistently with the law, according to the driving conditions, and the instructions in this manual.

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

### Note to owners

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

### Note aux 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, LTÉE

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

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

## Fuel Quality

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

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

### Fuels containing alcohol and ether

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

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

You may use oxygenated fuels in your Porsche, provided the octane requirements for your vehicle are met.

We recommend, however, to change to a different fuel or station if any of the following problems occur with your vehicle:

- Deterioration of driveability and performance.
- Substantially reduced fuel economy.
- Vapor lock and non-start problems, especially at high altitude or at high temperature.
- Engine malfunction or stalling.

### Fuels containing MMT

Some North American fuels contain an octane enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT).

If such fuels are used, your emission control system performance may be negatively affected.

The check engine warning lights on your instrument panel may turn on.

If this occurs, Porsche recommends you stop using fuels containing MMT.

## Tire Pressures for Cold Tires

### Summer tires and snow tires 911 Carrera, 911 Carrera S

|                                                                       |       |                  |
|-----------------------------------------------------------------------|-------|------------------|
| 18 inch wheels                                                        | front | 36 psi (2.5 bar) |
|                                                                       | rear  | 44 psi (3.0 bar) |
| 19 inch wheels, partially loaded<br>(up to 2 persons without luggage) | front | 33 psi (2.3 bar) |
|                                                                       | rear  | 39 psi (2.7 bar) |
| 19 inch wheels, fully loaded<br>(as of 2 persons with luggage)        | front | 36 psi (2.5 bar) |
|                                                                       | rear  | 44 psi (3.0 bar) |

### Summer tires and snow tires 911 Carrera 4, 911 Carrera 4S

|                                                                                   |       |                  |
|-----------------------------------------------------------------------------------|-------|------------------|
| 18 inch and 19 inch wheels, partially loaded<br>(up to 2 persons without luggage) | front | 33 psi (2.3 bar) |
|                                                                                   | rear  | 39 psi (2.7 bar) |
| 18 inch and 19 inch wheels, fully loaded<br>(as of 2 persons with luggage)        | front | 36 psi (2.5 bar) |
|                                                                                   | rear  | 44 psi (3.0 bar) |

**These tire pressures are valid only for Porsche approved tires.**

**For replacement tires it is imperative that you consult the Technical Data and Tires, Wheels sections of this manual and follow the recommendations found there.**

## Porsche and the Environment

### Environmental guidelines

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

#### **Our environmental policy is based on the following principles:**

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

### California Proposition 65 Warning



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

### Production

Whether in production or repair, Porsche always relies on environmentally friendly technology.

An example of this is the water-based paint used in our painting installations.

Water-base paints and new painting methods reduce solvent emissions by 70 per cent.

The water used in the painting installation is re-circulated. Waste water leaves the Porsche factory only after being appropriately treated.

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

### Environmentally friendly vehicles

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

**These have the following advantages:**

- Rapid operational readiness of the catalytic converters ensures low emissions, even in short-trip operation.
  - Reliable operation and good emission control over a long useful life.
- f Please refer to the chapter "FUEL ECONOMY" on page 207.

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

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

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

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

### Emission control is built in

Innovative engine technology combines high engine performance and environmental compatibility.

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

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

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

- f Please refer to the chapter "WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER" on page 122.

## Porsche Ceramic Composite Brake (PCCB)

The high-performance brake system is designed for optimal braking effect at all speeds and temperatures.

Certain speeds, braking forces and ambient conditions (such as temperature and humidity) therefore might cause brake noises.

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

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

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

## Setting and operating vehicle components when driving



### Warning!

**There is a danger of accident if you set or operate the on-board computer, radio, navigation system, telephone or other equipment when driving.**

**This could distract you from the traffic and cause you to lose control of the vehicle resulting in serious personal injury or death.**

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

## Portable Fuel Containers



### Danger!

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

- f 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.

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

## Ground Clearance

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



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## Controls, Instruments

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## Dear Porsche Owner

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

### the safe driver...

- who knows his car and all controls,
- who maintains the vehicle properly,
- who uses driving skills wisely and always drives within her/his own capabilities and the level of familiarity with the vehicle.

You will find helpful hints in this manual on how to perform most of the checks listed on the following pages.

If in doubt, have these checks performed by your authorized Porsche dealer.

## Before driving off...

### Check the following items first

- f Turn the engine off before you attempt any checks or repairs on the vehicle.
- f Be sure the tires are inflated correctly. Check tires for damage and tire wear.
- f See that wheel bolts are properly tightened and not loose or missing.
- f Check engine oil level, add if necessary. Make it a habit to have engine oil checked with every fuel filling.
- f Check all fluid levels such as windshield washer and brake fluid levels.
- f Be sure the vehicle battery is well charged and cranks the engine properly.
- f Check all doors and lids for proper operation and latch them properly.
- f Check, and if necessary replace worn or cracked wiper blades.
- f See that all windows are clear and unobstructed.
- f Check air intake slots and area between luggage compartment lid and windshield are free of snow and ice, so the heater and the windshield wipers work properly.

- f If a child will be riding in the vehicle, check child seat/child seat restraint system to ensure that restraints are properly adjusted.
- f Check all exterior and interior lights for operation and that the lenses are clean.
- f Check the headlights for proper aim, and if necessary, have them adjusted.
- f Check under the vehicle for leaks.
- f 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...

- f Check operation of the horn.
- f 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.
- f Adjust the inside and outside rear view mirrors.
- f Buckle your safety belts.
- f Check operation of the foot and parking brake.
- f Check all warning and indicator lights with ignition on and engine not running.
- f Start engine and check all warning displays for warning symbols.
- f Never leave an idling car unattended.
- f 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...

- f Never drive after you have consumed alcohol or drugs.
- f Always have your safety belt fastened.
- f Always drive defensively.  
Expect the unexpected.
- f Use signals to indicate turns and lane changes.
- f Turn on headlights at dusk or when the driving conditions warrant it.
- f Always keep a safe distance from the vehicle in front of you, depending on traffic, road and weather conditions.
- f 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.
- f Always observe speed limits and obey road signs and traffic laws.
- f 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 9.

- f When parked, always set the parking brake. Move the Tiptronic selector lever to "P" or the gearshift lever to reverse or first gear. On hills also turn the front wheels toward the curb.
- f 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.
- f Make it a habit to have the engine oil checked after 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:

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

- f Do not participate in motor racing events, sports driving schools, etc. during the first 2,000 miles/3,000 kilometers.

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

## Break in brake pads and brake discs

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

## New tires

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

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

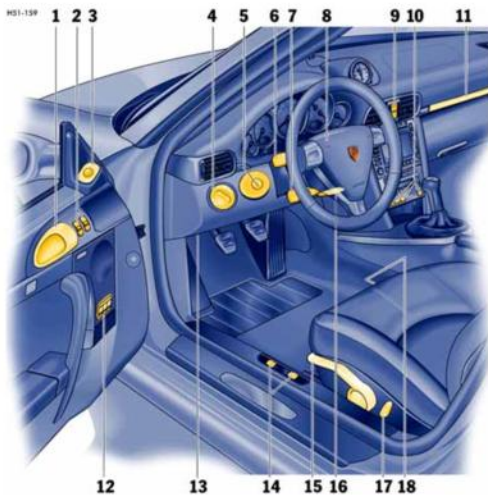
## Engine oil and fuel consumption

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

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

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

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- 1 Inner door handle
- 2 Power windows
- 3 Door mirror control
- 4 Light switch
- 5 Ignition/starter switch with steering lock
- 6 Turn signal/headlight dimmer, flasher lever
- 7 Operating lever for on-board computer
- 8 Horn
- 9 Emergency flasher switch, central locking switch
- 10 Switches for rear spoiler, Porsche Active Suspension Management (PASM), Sport mode, Porsche Stability Management (PSM)
- 11 Cupholder
- 12 Switch for seat memory
- 13 Diagnostic socket (OBD)
- 14 Lid release
- 15 Seat height adjustment
- 16 Steering-wheel adjustment
- 17 Backrest angle adjustment
- 18 Seat fore and aft adjustment

## Never invite car theft!

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

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



### Warning!

**Any uncontrolled movement of the vehicle may result in serious personal injury and property damage.**

**Never leave your vehicle unattended with the key in the ignition lock, especially if children and/ or pets are left unattended in the vehicle. They can operate power windows and other controls. If the engine is left running, they may accidentally engage the shift lever.**

- f Always remove the ignition key.
- f Always set the parking brake.
- f Lock the doors 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.**

- f 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:**

- f Close windows.
- f Close lifting/ sliding roof
- f Close convertible top (with the convertible top open, the passenger compartment monitoring system is always switched off)
- f Remove ignition key.
- f Engage steering lock.
- f Lock glove compartment.
- f Remove valuables (e.g. car documents, telephone, house keys) from the car.
- f Lock doors.

## Keys

- f Please observe the chapter "ALARM SYSTEM, PASSENGER COMPARTMENT MONITORING" on Page 26.
- f Please observe the chapter "CENTRAL LOCKING" on Page 22.

Two main keys and one spare key are supplied with your Porsche.

These keys operate all the locks on your vehicle.

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

## Replacement keys

Replacement car keys can be obtained only from your authorized Porsche dealer, and this can sometimes be very time-consuming.

You should therefore always keep the spare key on your person.

Keep it in a safe place (e.g. wallet), but under no circumstances in or on the vehicle.

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

### Disabling key codes

If a key is lost, the key codes can be disabled by an authorized Porsche dealer.

All the remaining car keys are required for this purpose.

Disabling the code ensures that the car can be started only using authorized keys.

### Note

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

## Immobilizer

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

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

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

### Switching off the immobilizer

- f Insert the ignition key into the ignition lock.

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

- f If this happens, turn the ignition key back to the **3** position before starting the engine. Please observe the chapter "IGNITION/STARTER SWITCH WITH ANTI-THEFT STEERING LOCK" on Page 80.

### Switching on the immobilizer

- f Remove ignition key.

## Security Wheel Bolts

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



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

## Key with Radio Remote Control

### Unlocking the vehicle

- f Press button **1**.

### Locking the vehicle

- f Press button **1**.

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### Switching off the alarm system if it is triggered accidentally

- f Unlock the vehicle.

### Unlocking luggage compartment lid

- f Press button **2** for approx. two seconds.

If the vehicle was locked, it is unlocked simultaneously with the luggage compartment.

In vehicles with seat memory the stored seat and door mirror positions are automatically set.

The vehicle will be locked again approx. 15 seconds after the luggage compartment is closed if none of the doors was opened.

### Note

Your authorized Porsche dealer can program further types of unlocking.

### Type 1

The rellocking time of the doors can be adjusted to suit your individual requirements:  
 10 - 100 seconds.

### Type 2

The doors stay locked when the luggage compartment is unlocked.

### The remote-control standby function switches off after 7 days

If the vehicle is not started or unlocked with the remote control within 7 days, the remote control standby function is switched off (to prevent discharging of the vehicle battery).

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

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

The remote control is now activated again.

### Note

- f Do not insert the ignition key into the ignition lock if the vehicle battery is discharged.  
 The ignition key can no longer be removed.

The key cannot be removed until the vehicle electrical system is supplied with power again.

- f Please observe the chapter "EMERGENCY UNLOCKING OF THE LUGGAGE COMPARTMENT LID" on Page 257.

- f Please observe the chapter "EMERGENCY STARTING WITH JUMPER CABLES" on Page 264.



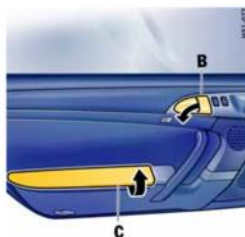
## Doors

If the door windows are closed, they will be automatically opened by a few millimeters when the doors are opened and, when the doors are closed, they will be closed again. This makes it easier to open and close the doors and protects the seals.

- f Therefore, you should pull the door handle slowly so that the door window can be lowered before the door is opened.

### Opening doors from outside

- f Unlock vehicle with the remote control.
- f Slowly pull door handle **A**.



### Opening unlocked doors from inside

- f Slowly pull door handle **B**.

### Opening locked doors from inside

- f Slowly pull door handle **B** twice.
- f Please observe the chapter "LOCKING CONDITIONS" on Page 23.

## Door storage tray

### Opening storage tray

- f Open the cover.

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

## Central Locking

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

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

### Note

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



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

- f Please observe the chapter "LOAD SWITCH-OFF AFTER 2 HOURS OR 7 DAYS" on Page 255.
- f Please observe the chapter "SEAT MEMORY" on Page 36.

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

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

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

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

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

### Note

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

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

## Automatic relocking

If the car is unlocked by remote control and none of the car doors is opened within approx. 60 seconds, automatic relocking takes place. This relocking time can be adapted to your individual requirements (10 - 100 seconds) by an authorized Porsche dealer.

### Locking conditions

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

#### If a person or animal remains in the vehicle:

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

### Unlocking the door with the inner door handle

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

1. Pull inner door handle once to unlock door lock.
2. Pull inner door handle again to open door.

#### Note

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

### Malfunction of the remote control

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

If this should occur:

- f Lock the vehicle with the key in the door.

### Emergency operation – opening

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

#### Note on operation

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

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

### Emergency operation – closing

- f Lock the driver's door with the key at the door lock.  
If there is a defect in the central locking system, all functioning elements of the central locking system will be locked.  
The alarm system is switched on.  
The passenger compartment monitoring system is switched off.

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

Indication by emergency flasher and alarm horn

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

- Unlocking – single flash.
- Locking – double flash.
- Locking twice – continuous illumination for approx. 2 seconds.

#### Fault indication

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

#### Overload protection

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



#### Central locking button

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

#### Note

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

#### Locking

- f Press the central locking button. Indicator light in the button lights up if ignition is on.

#### Unlocking

- f Press the central locking button. Indicator light goes out.

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

1. Pull inner door handle once to unlock door lock.
2. Pull inner door handle again to open door.

## Automatic door locking

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

### Type 1

Doors lock automatically when the ignition is switched on.

### Type 2

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

### Type 3

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

### Type 4

The doors do not lock automatically.

### Note

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

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

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



**Warning!**

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

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



**A** - Light-emitting diode for alarm system

## Alarm System, Passenger Compartment Monitoring

This device complies with:  
Part 15 of the FCC Rules  
RSS210 of Industry Canada.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. this device must accept any interference received, including interference that may cause undesired operation.

### Note

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



### Warning!

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

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

- f Please observe the chapter "CENTRAL LOCKING" on Page 22.

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

### Cabriolet

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

## Function indication

If the alarm system is activated, light-emitting diode **A** in the central locking switch flashes.

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

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

When the alarm is armed, the following areas are monitored

- Doors
- Luggage compartment lid
- Engine compartment lid
- Convertible-top lock (Cabriolet)
- Glove compartment
- Passenger compartment

If one of these alarm contacts is interrupted, the alarm horn sounds for approximately 3 minutes. Additionally, the emergency flasher flashes and the passenger compartment light lightes for approximately five minutes.

When the alarm is triggered, the light-emitting diode changes over to double flashes.

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

- f Do not fold the front seat backrests forward.

Deactivating the passenger compartment monitoring system for one locking process

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

- f Quickly lock car **twice**.

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

1. Pull inner door handle once to unlock door lock.
2. Pull inner door handle again to open door.

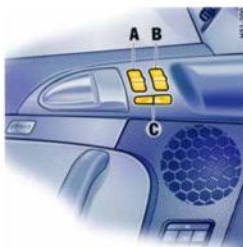
#### Note

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

Fault indication

A double **horn signal** during locking indicates a defect in the central locking or alarm system.

- f Have the defect remedied at an authorized Porsche dealer.



A - Power window in driver's door  
B - Power window in passenger's door  
C - Cabriolet: Switching button for front/rear power windows

## Power Windows



**Warning!**  
Risk of injury when the door windows close. This applies especially if the windows are closed with the one-touch operation, because with this function the window goes up automatically.

- f Make sure nobody can be injured when the windows close.

- f Remove the ignition key 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.

- f Do not leave children in the car unattended.

### Risk of an accident.

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

### Readiness for operation of power windows

- When the ignition is switched on (engine switched on or off) **or**
- with doors closed and ignition key withdrawn, but only until door is first opened. One-touch operation for closing the door windows is available only when the ignition is switched on.

### Cabriolet

When the convertible top is open, the rear side windows can only be closed if the door windows are closed.

### Opening/closing windows

- f For the **Cabriolet**, select front or rear power windows with rocker switch **C**. The selection is displayed by the respective light-emitting diode.

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

#### Opening window with the rocker switch

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

#### Closing window with the rocker switch

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

#### One-touch operation

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

#### Coupé

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

#### Comfort function when unlocking the vehicle

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

#### Anti-crushing protection

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



#### **Risk of severe personal injuries.**

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

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

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

#### Automatic window lowering

- † Please observe the chapter "DOORS" on Page 21.

#### Storing end position of the windows

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

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



### Inside mirror

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

Basic position: lever forward

Anti-glare position: lever back



### Door Mirrors

Before driving the vehicle, adjust the outside and inside mirrors.

It is important for safe driving that you have good vision to the rear.



**Warning!**

**Risk of an accident.**

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

### Adjusting

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

#### **If the electrical adjustment facility fails**

- f Adjust mirror by pressing on the mirror face.

Automatically swivelling down mirror on the passenger's side

- f Please observe the chapter "PARKING AIDS" on Page 58.

- f Please observe the chapter "SEAT MEMORY" on Page 36.



#### Folding in door mirrors



##### **Warning!**

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

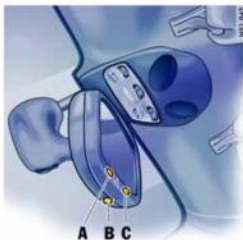
- f Exercise extreme caution when folding in mirror by hand. Do not let go of the mirror before the locking lever is locked or the mirror is fully unfolded.



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

#### Unfolding door mirrors

1. Push mirror towards the door window and continue to hold it (high spring force). The locking lever disengages automatically.
2. Move mirror back to unfolded position by hand. Do not let go of the mirror beforehand.



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

### Automatic Anti-Glare Interior Mirror and Door Mirror

Sensors on the front and rear sides of the interior mirror measure the incident light.

The mirrors automatically change to anti-glare position or revert to their normal state, depending on the light intensity.

When reverse gear is selected, automatic anti-glare operation is switched off.

#### Note

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

#### Switching off the automatic anti-glare operation

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

#### Switching on the automatic anti-glare operation

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



#### Warning!

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

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

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

- f Clean the affected parts with water.



 **Rear Window Defogger,  
Door Mirror Heating**

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

**Switching on**

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

After approx. 15 minutes, the heater switches off automatically.

The heater can be switched back on by pressing the button again.

**Switching off**

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

## Seat Adjustment



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

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

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

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

In the cabriolet, the windstop may be damaged during seat adjustment and when folding back the front-seat backrest.

- Adjust seat so that the seat backrest does not touch the windstop.



### Seat position

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

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

Vehicles with Tiptronic S:  
Adjust the seat until, with your left foot on the footrest, your left leg remains at a slight angle.

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

Manually adjustable  
comfort seat/sports seat

#### A Seat height

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

#### B Fore and aft

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

#### C Backrest angle

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



Electrically adjustable  
comfort seat/sports seat

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

**A Seat height adjustment**

**B Fore-and-aft position adjustment**

**C Seat angle adjustment**

**D Backrest angle adjustment**

**E Lumbar support  
(pelvis and spinal column support)**

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

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

**F Adjusting the backrest side bolsters  
(electrically adjustable sports seat only)**

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

**G Adjusting the seat cushion side bolsters  
(electrically adjustable sports seat only)**

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

**Seat backrest**

**Folding forward**

- f Pull up lever H in the side part of the backrest and fold the backrest forward.

**Folding back**

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



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

## Seat Memory

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

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



### Warning!

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

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

### Operation with person buttons 2, 3

#### Storing seat position

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

### Recalling seat position

1. Switch on the ignition or open the driver's door.
2. Press person button until the seat has reached its final position.  
The setting of door mirrors and lumbar support will be completed even if the person button is not kept depressed.

#### Note

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

### Operating with the remote control of the vehicle key

Each remote control (up to six) can be assigned an individual seat and door mirror position.

The stored seat and door mirror position is set automatically when the vehicle is unlocked using the corresponding remote control.

#### Storing seat position

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

Reverse gear must not be engaged.

2. Set the desired seat and door-mirror positions.
3. Keep memory button **M** depressed and additionally press key button **1**.  
The individual setting is now assigned to this remote control and to the key button.

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

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

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

#### Recalling seat position

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

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

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

#### Note on operation

Automatic seat adjustment can be interrupted immediately:

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

#### Clearing the stored seat position

1. Switch the ignition on with the desired vehicle key.
2. Press memory button twice and key button **1** once consecutively.



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

## Heated Seats

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

### Switching on

#### High heating power

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

#### Low heating power

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

### Switching off

- f Press button.  
 Light-emitting diodes go out.



### Rear Seat Backrests

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

#### Folding forward

- f Pull lever forward and fold the backrest forward.

#### Folding back

- f Tilt the backrest back until you feel it click into place. When doing so, make sure that the seat belt is properly routed (see figure).

### Cabriolet

- f Do not fold up the rear seat backrests with the windstop installed.

### 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.**

- f Do not adjust the steering wheel when driving.



### Adjusting steering wheel height and longitudinal direction

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

## Multi-Functional Steering Wheel



**Warning!**  
There is a danger of accident if you set or operate the on-board computer, radio, navigation system, telephone or other equipment when driving.

Operating these devices while driving could distract you from traffic and cause you to lose control of the vehicle.

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

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

- PCM
- Telephone
- CD changer



### Readiness for operation of multi-functional steering wheel

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

9007-6288

### Operating the function keys

- f Please read the separate PCM operating instructions before operating the function keys.

The rotary knobs at the top left and right of the steering wheel can also be pressed.



#### Turn volume control

Upwards – increase volume.  
Downwards – decrease volume.

#### Press volume control

To switch volume/ mute on and off.



#### Turn rotary knob

To select/ mark function in the PCM within a menu. To do this, turn the rotary knob upward or downward.

#### Press rotary knob

To activate selected function.



#### Press screen button

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



#### Press Back button

To move back in the PCM menu.



#### Press Handset Pickup button

To accept a telephone call.



#### Press Handset Hangup button

To end or refuse a telephone call.



#### Vanity mirror

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



#### Warning!

##### Risk of injury.

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

##### Risk of damage.

- f Do not force the lid beyond its end position.

The vanity mirror illumination is switched on automatically when the cover is opened (**arrow**).

#### Sun Visors

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

## Safety Belts



**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.**

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

### Proper wearing of safety belts

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

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

### Care and maintenance

- f Keep belt buckles free of any obstruction that may prevent a secure locking.
- f 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.
- f If safety belts do not work properly, see your authorized Porsche dealer immediately.
- f If the belts show damage to webbing, bindings, buckles or retractors, they should be replaced to ensure safe operation.
- f Do not modify or disassemble the safety belts in your vehicle.

- f The belts must be kept clean or the retractors may not work properly. Please observe the chapter "CAR CARE INSTRUCTIONS" on Page 218.
- f Never bleach or dye safety belts.
- f Do not allow safety belts to retract until they are completely dry after cleaning or this may cause damage to the belt.

### Belt tensioner

Depending on the force of an impact, fastened safety belts are tightened in an accident.

#### The belt tensioners are triggered in:

- Front, side and rear impacts of sufficient severity.
- For the Cabriolet, in cases of vehicle rollover.

#### Note

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

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

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



## Safety Belt Warning System

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

Every time the ignition is turned on, the gong will sound for about 6 seconds to remind driver and passenger to buckle up. In addition, the gong will sound for approx. 90 seconds if vehicle speed exceeds 15 mph/ 24 km/h. The safety belt warning lights in the instrument panel and on-board computer will go off as soon as the driver has buckled up.



### Inertia reel retractor

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

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

### Fastening the safety belt

- f Assume a comfortable sitting position. The shoulder belt should always rest on your upper body. The shoulder belt should never be worn behind your back or under your arm.
- f Grasp belt and pull the belt in a continuous slow motion across your chest and lap.
- f Insert belt tongue into buckle on inboard side of seat. Push down until it securely locks with an audible click. Pull the belt to check.
- f Pull shoulder section to make sure belt fits snugly across the pelvis.
- f Belts should fit snugly across the pelvis and chest. Make sure there is no slack in the belt.

### Releasing the safety belt

- f Push in release button (**arrow**) on buckle. Belt tongue will spring out of buckle.
- f To release a latched belt, lean back to take the body pressure off the belt.
- f To store lap/shoulder belt, allow the belt to retract as you guide the latch to its stowed position.
- f Please observe the chapter "AUTOMATIC LOCKING RETRACTOR" on Page 54.

f f f



#### Cleaning the safety belts

- f Please observe the chapter "SAFETY BELTS" on Page 226.

#### Safety belt height adjustment

(Coupe only)

The height of the belt deflectors for the driver's seat and passenger's seat 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

- f Upward – push belt deflector up.
- f Downward – press button (**arrow**) and move belt deflector.

## Airbag Systems

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

Your vehicle is equipped with a weight sensing system for the front passenger's seat in accordance with U.S. Federal/ Canadian Motor Vehicle Safety Standard 208.

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

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

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

- f Please observe the chapter "SAFETY BELTS" on Page 42.

The **front airbags** are located under the padded steering wheel panel on the driver's side and, on the passenger's side, in the dashboard.

The **side airbags** for the front seats are installed on the side in the seat backrests.

The **head airbags** are installed in the door linings.



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

**Improper handling of the weight sensing system can unintentionally impair switching the passenger's airbag off and on.**

- f Make sure there are no people, animals or objects between the driver or passenger and the area into which the airbag inflates.
- f Sit back as far from the dashboard or steering wheel as is practical, while still maintaining full vehicle control.
- f Always hold the steering wheel by the outer rim. Never rest your hands on the airbag panel.
- f **Always fasten seat belts** because triggering of the airbag system depends on the force and angle of impact.
- f Do not transport heavy objects on or in front of the passenger's seat. These could impair the function of the airbag, the seat belts, and weight sensing.
- f Do not hang objects (e.g. jackets, coats, coat hangers) over the backrest.

- f Always keep the lid of the door storage compartment closed. Objects must not protrude out of the door storage compartment.
- f No changes may be made to the wiring or components of the airbag system.
- f Do not add any additional coverings or stickers to the steering wheel or in the area of the passenger's airbag, side airbags and head airbags. Doing so may adversely affect the functioning of the airbag system or cause harm to the occupants if the airbag system should deploy.
- f Do not modify the seat coverings. Do not attach additional cushions, protective coverings, or pillows to the passenger's seat. Do not affix things to the passenger's seat or cover it with other materials. Do not cover the back of the backrest. Do not make changes to the passenger's seat and to the seat base frame.
- f Do not undertake any wiring for electrical accessory equipment in the vicinity of the airbag wiring harnesses. Doing so may disable the airbag system or cause inadvertent inflation.
- f If the warning light comes on, the airbag system should be repaired immediately by your authorized Porsche dealer.
- f Always keep feet in the footwell while driving. Do not put feet on the dashboard or the seat area. Do not lean against the inside of the door or outside the window while the vehicle is moving.

- f Using accessories not approved by Porsche can cause the weight sensing system to be impaired.
- f Do not squeeze objects, such as the fire extinguisher, or first aid kit under the seat.
- f Only have seats removed and installed by an authorized Porsche dealer so that weight sensing components will not be damaged.
- f Give your passenger all of the information in this chapter.

#### Note

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

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

#### Function of the airbag system

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

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

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

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

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

#### Advanced Airbag

Your vehicle is equipped with a weight sensing system for the passenger's seat in accordance with U.S. Federal/Canadian Motor Vehicle Safety Standard 208.

Depending on the weight acting on the front passenger's seat, the front passenger's airbag will automatically be switched on and off.

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

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

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

#### **Seat adjustment for the front passenger's seat**

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

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

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

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

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

- f Correct the seat adjustment.
- f Please observe the chapter "WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER" on Page 122.

#### Automatic deactivation of the front passenger's airbags



**Danger!**

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

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

- When an **up to one-year old child** is seated in the child restraint system, the front airbag is automatically deactivated on the passenger's side.
- When an adult is seated in the front seat, the front airbag remains active on the passenger's side.

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A - PASSENGER AIRBAG OFF indicator lamp

#### Note on operation

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

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

If in doubt:

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

#### Note

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

#### PASSENGER AIRBAG OFF indicator lamp lights up

- The passenger's airbag is switched off.

**PASSENGER AIRBAG OFF indicator lamp does not light up**

- The passenger's airbag is active and ready for operation.
- If the passenger's seat is not occupied, the PASSENGER AIRBAG OFF indicator lamp will also not light up, even though the passenger's airbag is switched off.



**Danger!**

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

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

**If the "PASSENGER AIRBAG OFF" indicator lamp does not light up, it could indicate a fault in the system.**

**In this case:**

- f Child restraint systems **facing forwards**:  
Install on the rear seats.
- f Child restraint systems **facing rearwards**:  
On vehicles **with** key-operated airbag deactivation device: Switch to position OFF.
- f Child restraint systems **facing rearwards**:  
On vehicles **without** key-operated airbag deactivation device: Do not use a child restraint system in the front passenger's seat.

- f Have the fault remedied at your nearest authorized Porsche dealer.

**Note**

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

- f Please see your authorized Porsche dealer.



**Warning light and warning message**

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

- f Please observe the chapter "WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER" on Page 122.
- f **In the following cases you should immediately consult an authorized Porsche dealer in order to assure the airbag system is functioning properly:**
  - If the warning light does not light up when the ignition key is inserted **or**
  - If the warning light does not go out once the engine is running **or**
  - If the warning light appears while driving.

**Airbag maintenance**

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

**Important information**

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

Further information on the airbag system can be found on stickers attached to the sun visors.

For special recommendations on the use of child restraints:

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



#### Key-operated airbag deactivation device

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

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

Switch position **AUTO** – passenger's airbag system is active

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



A - PASSENGER AIRBAG OFF indicator lamp



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

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

#### Warning light "PASSENGER AIRBAG OFF"

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

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



**Risk of serious personal injury or death from the passenger's airbag.**

If the "PASSENGER AIRBAG OFF" warning light "A" is not lit when the ignition key is inserted and the Airbag OFF switch is switched to the **OFF**-Position, this could indicate a fault in the system.

- f Do not install a child restraint system on the passenger's seat.
- f Have the fault remedied immediately. Please see your authorized Porsche dealer.

#### Note

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

- f Please see your authorized Porsche dealer.

## Child Restraint Systems

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

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

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

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

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

A statement by the seat manufacturer of compliance with this standard can be found on the instruction label on the restraint and in the instruction manual provided with the restraint.



### **Danger!**

**The use of a child restraint system in the front passenger's 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:**

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

### **Note**

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

- f Please see your authorized Porsche dealer.



### **Danger!**

**Risk of serious personal injury or death to the child.**

- f Follow all child restraint instructions and warnings in this manual.
- When using an infant or child restraint system, be sure to follow all manufacturer's instructions on installation and use.

- Infants and small children should never be held on the lap, nor should they share a safety belt with another occupant while the vehicle is in motion.
- Children too big for child restraint systems should use regular safety belts. A shoulder belt can be used providing it does not cross the face or the neck of the child.
- Choose a child restraint system according to the age and size of the child.
- Child restraint systems that are damaged or have been heavily stressed in an accident must be replaced immediately.
- Do not affix things to child restraint systems or cover it with other materials.
- Your authorized Porsche dealer will be glad to advise you about the installation possibility for a Porsche child restraint system which allows a key-operated airbag deactivation of the passenger's airbag.
- The key-operated airbag deactivation device installation requires special programming available only from your authorized Porsche dealer.
- f Please observe the chapter "KEY-OPERATED AIRBAG DEACTIVATION DEVICE" on Page 50.

Direction of installation for child restraint systems

**Children up to 9 months old**

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

- f The passenger's airbag must be deactivated.

**Children aged between 9 months and 6 years**

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

Whenever possible, these child restraint systems should be installed on the rear seats.

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

**Children aged between 6 and 12 years**

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

Whenever possible, these child restraint systems should be installed on the rear seats.

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

**Note**

If a child seat with top tether is adapted for use on the front seat, the rear right (passenger's side) anchor point must be used for anchoring the top tether.

It is then not permitted for a passenger to use the rear right (passenger's side) seat.

It is then not permitted to install a child restraint system on the rear right (passenger's side) seat.

- f Please observe the chapter "CHILD RESTRAINT ANCHORAGES" on Page 56.

Using child restraint systems in the front passenger 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:

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

**Child restraint system for up to one-year old children**

- Make sure that the PASSENGER AIRBAG OFF indicator lamp lights up.
- Adjust the passenger's seat as far away from the airbag as possible.



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

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

**If the "PASSENGER AIRBAG OFF" indicator lamp does not light up, it could indicate a fault in the system.**

**In this case:**

- f On vehicles **with** key-operated airbag deactivation device: Switch to position OFF.
- f On vehicles **without** key-operated airbag deactivation device: Do not use a child restraint system in the front passenger's seat.
- f Have the fault remedied at your nearest authorized Porsche dealer.

**Child restraint system for children older than one year**

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

**Small adult passengers**

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



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

**When the ignition is on and the small adult passenger is seated on the passenger's seat, the indicator lamp "PASSENGER AIRBAG OFF" must be off.**

**If the "PASSENGER AIRBAG OFF" indicator lamp lights up, it could indicate a fault in the system.**

**In this case:**

- f Carry the passenger on the rear seat.
- f Have the fault remedied at the nearest authorized Porsche dealer.

### Automatic locking retractor

The safety belts for the front 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.



**Danger!**

**The use of a child restraint system on 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:**

- f Under all normal circumstances, forward-facing child seats must be placed in the rear.

Before transporting a child on the passenger's seat:

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

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A - PASSENGER AIRBAG OFF indicator lamp



**Danger!**

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

- f After fastening the child restraint system, do not adjust the seat.
- f Check the condition of the passenger's airbag system shown by the indicator lamp A in the central console.

### Activating the automatic locking retractor

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

### Releasing the safety belt

1. Unbuckle the safety belt latch.
2. Then make certain that the belt has fully retracted. At this point the automatic locking feature will be disengaged. Seek appropriate advice from your authorized Porsche dealer about the possible installation of a Porsche child restraint system.

## LATCH System

### Child seat bracket on the passenger's seat

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

f Please see your authorized Porsche dealer.

Porsche recommends the use of a Porsche Child Seat with Lower Anchorage and Tether for Children system (LATCH). These systems have been tested and adjusted to the interior of your Porsche and the appropriate child age groups. Other systems have not been tested and could entail an increased risk of injury.

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

- f Always observe the separate installation instructions for your child seat.
- f Please observe the chapter "CHILD RESTRAINT SYSTEMS" on Page 51.



### Installing a LATCH child seat system

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

#### Note

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

## Child Restraint Anchorages

(Coupe only)

- f Please observe the chapter "AUTOMATIC LOCKING RETRACTOR" on Page 54.

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

To ensure proper installation, see your authorized Porsche dealer.

### Note

If a child seat with top tether is adapted for use on the front seat, the rear right (passenger's side) anchor point must be used for anchoring the top tether. It is then not permitted for a passenger to use the rear right (passenger's side) seat.



### 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.

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

## Rollover Protection System

The Rollover Protection System on the **Cabriolet** consists of two supplemental safety bars that together with the front windshield frame help to create occupant survival space in case of rollover. Because of the extreme and unpredictable forces which can be encountered in a rollover, it is not possible to guarantee that occupants will be protected from all contact with exterior objects or the ground. However, the Rollover Protection System is designed to maintain the occupant survival space.

The Rollover Protection System is activated automatically in the event of an accident or extreme driving situation.

The protective devices are located behind each rear seat and rapidly deploy within a fraction of a second.

### They can deploy under:

- Extreme tilting of the vehicle.
- Loss of ground contact (e.g. Going over the crest of a hill at high speed).



### Risk of death or serious injury.

- † Do not block area of supplemental safety bars with objects.  
In the event of a deployment event, such objects could potentially prevent such deployment from occurring, or such objects could impact the car occupants at high speed.
- † Do not tamper with or work on wiring and or components of Rollover Protection System.
- † All work regarding this system must be carried out by your authorized Porsche dealer.
- † Check functions and periodic service intervals according to maintenance schedule (see your authorized Porsche dealer).

### To avoid damage to the convertible top:

- † If the supplemental safety bars are extended for any reason, do not open or close convertible top.



### Warning light

Faults in the Rollover Protection System are indicated by the airbag warning light in the instrument panel.

Extension of the supplemental safety bars is no longer ensured.

- † See your authorized Porsche dealer immediately and have the fault remedied.

### Lowering the supplemental safety bars after deployment

- † Have this work performed by an authorized Porsche dealer.

## Parking Aids

### Parking assistant

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

#### Warning!

**Risk of serious personal injury or death. Parking assistant cannot detect small objects such as children and pets. Despite use of the parking assistant system, the driver is still responsible for taking due care and assessing obstacles when backing up.**

- ! Make sure that no persons, especially small children, animals or obstacles are within the maneuvering area.

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

#### Note

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



Ultrasound sensors

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### Sensors

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

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

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

#### Note

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

#### Caution!

**To avoid damaging the sensors:**

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

#### Signal tones/ function

When reverse gear is selected, the parking assistant confirms that it is switched on by issuing a **short signal tone**.

A detected obstacle is signalled by an **intermittent tone**. The intervals decrease as the obstacle is approached.

A **continuous tone** sounds when the distance becomes less than one foot. This continuous tone can stop if the obstacle is approached closer than one foot.

**The radio volume should not be so loud as to drown out the signal tones.**

#### Limits of ultrasonic measurement

The parking assistant system cannot detect:

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

#### Fault indication

The parking assistant system indicates a fault in two ways:

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



**A** - Control switch for door mirror adjustment

#### Swivelling down mirror glass as a parking aid

- f Please observe the chapter "SEAT MEMORY" on Page 36.
- When reverse gear is engaged, the mirror glass on the passenger's side swivels down slightly to show the curb area.

#### Preconditions

- Vehicle must be equipped with seat memory.
- Set the control switch **A** to "passenger's side".
- Reverse gear must be engaged.

#### Returning mirror glass to its original position

- f Drive forwards with a speed of over 4 mph (6 km/h) **or**
- f Set the control switch **A** to "driver's side".

## Four-Wheel Drive

With the four-wheel drive of the 911 Carrera 4 and 911 Carrera 4S, the engine power is variably distributed to the front and rear wheels. Power distribution and wheel speed compensation between the front and rear axles is realised with a viscous multiple-disc clutch.

Distribution of the engine power is dependent upon the wheel speed difference between the two axles.

The viscous multiple-disc clutch always delivers sufficient drive power to the front wheels (approx. 5% to 40%) to ensure optimum traction even on a poor road surface.

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



### Warning!

**The increased control that is provided should not induce you to take greater risks with your safety. The limits dictated by the laws of physics cannot be overcome, even with four-wheel drive.**

**The risk of accidents due to inappropriate speed cannot be reduced, even by four-wheel drive.**

**The driver bears the responsibility for all driving maneuvers.**

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

## Dynamometer testing procedure

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

Your 911 Carrera 4 or 911 Carrera 4S has a full-time four-wheel drive system which cannot be disabled. Severe damage to the powertrain can result if tested on a two-wheel dynamometer.



### Warning!

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

- f Your 911 Carrera 4 or 911 Carrera 4S vehicle must never be tested on a two-wheel dynamometer.
- f Advise the emission station of this warning before testing the vehicle.

## Power measurement

Power measurements on dynamometers are not approved by Porsche.

### Brake tests

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

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

- Testing speed 5 mph (8 km/h)
- Test duration 20 seconds

### Handbrake tests

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

### Balancing wheels on the vehicle

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

### Towing

- f Please observe the chapter "TOWING" on Page 281.

## Retractable Rear Spoiler

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



### Warning!

**Risk of accident. If the rear spoiler cannot be extended, driving stability will be adversely affected by increased rear axle lift, which could lead to loss of control.**

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

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

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

**Risk of damage from pushing the vehicle by the spoiler.**

- f Do not push the vehicle at the spoiler.

## Automatic mode

The limits for automatic extension and retraction of the spoiler depend on various circumstances (e.g. driving speed, engine compartment temperature).

### Engine compartment temperature under 122 °F/ 55 °C

Spoiler extends at 75 mph/ 120 km/h and retracts at 37 mph/ 60 km/h.

### Engine compartment temperature over 140 °F/ 60 °C

Spoiler extends at 50 mph/ 80 km/h and retracts at 19 mph/ 30 km/h.

If automatic control fails, a warning message is displayed by the on-board computer.



#### Manual control

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

#### Extending

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

#### Retracting a manually extended rear spoiler

- f **at speeds between 0 and 20 mph (0 and 30 km/h)**  
Press and hold button until the rear spoiler has reached its final position.  
The light-emitting diode in the button goes out.  
The rear spoiler changes to automatic mode.
- f **at speeds between 20 and 60 mph (30 and 100 km/h)**  
Press button briefly.  
The rear spoiler retracts, the light-emitting diode in the button goes out.  
The rear spoiler changes to automatic mode.
- f **at speeds over 60 mph (100 km/h)**  
Press button briefly.  
The rear spoiler remains extended, the light-emitting diode in the button goes out.  
The rear spoiler changes to automatic mode.

## Clutch Pedal

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



### Warning!

**Risk of an accident.**

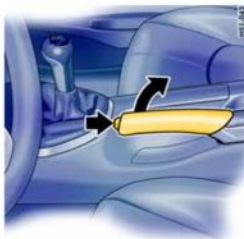
- Always check the movement of the clutch pedal before driving and make sure that it is not obstructed by a floor mat or any other object.
- Secure the floor mat to prevent it from sliding into positions that could interfere with the safe operation of your vehicle.  
Your Porsche dealer will be glad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

**To avoid damage to the clutch and transmission:**

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

Should the free travel of the clutch pedal suddenly become larger, it could mean a malfunction of the clutch.

- See your Porsche dealer for correction.



## Parking Brake

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

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

## Setting the parking brake

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



### Danger!

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

- Engage the parking brake fully.

## Releasing the parking brake

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

## Parking brake warning light USA

### Parking brake warning light Canada

The warning lights in the instrument panel and on-board computer will go out after the parking brake is fully released.

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

#### Caution!

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

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

## Brakes

- f 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.

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

### Vehicles without Porsche Ceramic Composite Brake (PCCB)

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

The nature, extent and effects of corrosion depend on the amount of time the vehicle was parked, whether granular or liquid road salt was spread and whether grease-dissolving agents were used in car washes.

If the braking comfort is noticeably impaired, we recommend having the brake system checked by experts at an authorized Porsche dealer.

## Brake system function

Your Porsche is equipped with a power assisted hydraulic dual circuit brake system with disc brakes at the front and rear.

Both circuits function independently. One brake circuit operates the front and the other operates the rear.

If one brake circuit has failed, the other will still operate. However, you will notice an increased pedal travel when you apply the brakes.

Failure of one brake circuit will cause the stopping distance to increase.

#### Warning!

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

- f 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.
- f 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

#### **(1)** Brake warning light Canada

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

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

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

Whenever the brake pedal travel exceeds this distance, have the brake system checked.

#### Brake pedal



#### **Warning!**

##### **Risk of an accident.**

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

- f 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.
- f Secure the floor mat to prevent it from sliding into positions that could interfere with the safe operation of your vehicle.  
Your Porsche dealer will be glad to offer you nonskid floor mats of the correct size.

#### **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:**

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

### Brake booster

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

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

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

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



**Warning!**

**Driving through water may reduce the traction.**

**Moisture on brakes from road water, car wash, or coating of road salt may affect braking efficiency.**

- f 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.

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

#### Warning light USA

#### Warning light Canada

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

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

### Brake pads

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

The high-performance brake system is designed for optimal braking effect at all speeds and temperatures.

Certain speeds, braking forces and ambient conditions (such as temperature and humidity) therefore might cause "brake noises".

#### **New brake pads or linings**

New brake pads and brake discs have to be "broken in", and therefore only attain optimal friction when the car has covered several hundred miles or km.

The slightly reduced braking ability must be compensated for by pressing the brake pedal harder. This also applies whenever the brake pads and brake discs are replaced.

## ABS Brake System (Antilock Brake System)

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

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

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

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

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

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

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



### Warning!

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

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

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

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

### Operation of the ABS system

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

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

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

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

### Warning light USA

### Warning light Canada

When the ignition is switched on the ABS warning light will light up while the system is electronically interrogated and goes out when the engine is started if the check is not yet complete.

If the ABS warning lamp fails to go out, this indicates that ABS has been deactivated due to a fault. If the warning lights in the instrument panel and on-board computer light up while you are driving, this indicates that a fault has occurred. In both cases, normal braking, as in vehicles without ABS, is still retained.

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

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



### Warning!

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

- f Use only tire makes and types tested by Porsche.

## Sport Mode

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

- PASM (Porsche Active Suspension Management) is automatically changed to Sport mode, resulting in a stiffer suspension setup.
  - The Tiptronic S switches to a sporty gear-changing map and shortens the gear shifting periods. Gear changes take place faster.
  - PSM (Porsche Stability Management) control is sporty. PSM interventions take place later than in Normal mode. The driver can maneuver the vehicle with greater agility at its performance limits, without having to dispense with the assistance of PSM in emergency situations.
  - The electronic accelerator pedal reacts sooner, and the engine is more responsive to throttle inputs. When Sport mode is switched on, this function is activated only after the driver has floored the accelerator pedal or released it briefly.
  - The rpm limiter characteristic is "harder", i.e. the engine is immediately throttled when the performance limits are reached (only in manual selection mode for vehicles with Tiptronic S).
- † Please observe the appropriate chapters of this Manual.



### Switching Sport mode on and off

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



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

Switching Sport mode on and off simultaneously activates and deactivates the Sport mode of the PASM.

If the Sport mode of the PASM was activated with the PASM button, it will remain on.

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

## Porsche Stability Management (PSM)

PSM is an active control system for stabilization of the vehicle during extreme driving manoeuvres. The most recent version of PSM (only on vehicles with four-wheel drive) improves the brake system functionality.



### Warning!

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

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

### Advantages of PSM

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

- Improved braking stability in curves and on different or varying road surfaces.
- It improves the braking functions and shortens the stopping distance if emergency braking is needed (only vehicles with four-wheel drive).

### Readiness for operation

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

### Function

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

- Speed
- Steering angle
- Lateral acceleration
- Rate of turn about the vertical axis
- Brake pressure

PSM uses these values to determine the direction of travel desired by the driver.

PSM intervenes and corrects the course if the actual direction of motion deviates from the desired course (steering-wheel position); It brakes individual wheels as needed. In addition, the engine power may be manipulated in order to stabilize the vehicle.

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

- The multi-functional information light on 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. In order to achieve full vehicle deceleration, foot pressure must be increased after beginning of the brake pedal pulsing.

#### Examples of PSM control operations

- If the front wheels of the vehicle drift on a bend, the rear wheel on the inside of the bend is braked and the engine power is reduced if necessary.
- If the rear of the vehicle swings out on a bend, the front wheel on the outside of the bend is braked.

#### Additional functions for vehicles with four-wheel drive

- Pre-filling the brake system:  
If you suddenly and quickly take your foot off the accelerator pedal, the brake system gets prepared for possible emergency braking. The brake system is pre-filled which lightly presses the brake pads on the brake discs.

#### Brake boost:

If emergency braking does not have sufficient pedal pressure, the brake boost produces the brake pressure necessary for maximum deceleration on all 4 wheels.

#### The PSM should always be switched on during "normal" driving.

However, it may be advantageous to switch off PSM temporarily in exceptional situations, for example:

- On a loose surface or in deep snow,
- When "rocking the vehicle free" and
- When using snow chains.



#### Switching off PSM

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

#### Vehicles with four-wheel drive

When PSM is switched off, the additional braking functions are deactivated. The automatic reactivation in emergency situations is coupled to the PSM control in emergency situations.

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

- When PSM is off, the vehicle is stabilized as soon as one of the two front wheels enters the ABS control range.
- When PSM is off and Sport mode is on, the vehicle is stabilized as soon as both front wheels enter the ABS control range.

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

#### Switching PSM back on

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

#### Sport mode

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



#### Multifunctional PSM light

- The multifunctional light on the instrument panel lights up for a lamp check when the ignition is switched on.
- The light indicates a control operation by flashing, including when PSM is switched off (brake control in the event of one-sided wheel spin).
- In conjunction with a message on the on-board computer, the light indicates that PSM is switched off.  
An acoustic signal also sounds.
- Faults are displayed by the light in conjunction with a message on the on-board computer.  
PSM is out of order.
- f Please consult an authorized Porsche dealer.
- f Please observe the chapter "PUTTING VEHICLE INTO OPERATION" on Page 261.
- f Please observe the chapter "WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER" on Page 122.

#### Towing

- f Please observe the chapter "VEHICLE TOWING" on Page 281.

#### Checks on test stands

##### Brake tests

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

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

- Testing speed 5 mph (8 km/h)
- Test duration 20 seconds

##### Handbrake tests

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



## Porsche Active Suspension Management (PASM)

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

In Normal mode the running gear is in a sporty and comfortable setup.

Sport mode offers a markedly sporty shock absorber tuning (e.g. for driving on the race circuit).

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

### Example:

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



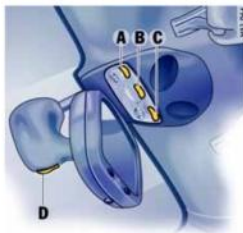
### Switching on PASM Sport mode

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

### Switching off PASM Sport mode

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

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



A C - Switch for reading light on driver/passenger side  
B - Switch for interior light and footwell lights  
D - Orientation light

## Interior Lights

- f Please observe the chapter "LOAD SWITCH-OFF AFTER 2 HOURS OR 7 DAYS" on Page 255.

### For vehicles with automatic anti-dazzle mirrors

- f Switch off the automatic anti-dazzle operation of the mirrors before you switch on the interior light. Otherwise the mirrors may accidentally swivel into the anti-dazzle position.

## Interior lights, reading lights

### Switching off

- f Press left half of switch.

### Switching to continuous illumination

- f Press right half of switch.

### Switching on and off automatically

- f Move switch to center position.

The interior and footwell 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. 2 minutes after the doors are closed. The light goes out immediately as soon as the ignition is switched on or the vehicle is locked.

## Orientation light

A light-emitting diode at the bottom of the interior mirror improves orientation in the passenger compartment when it is dark.

### Note on operation

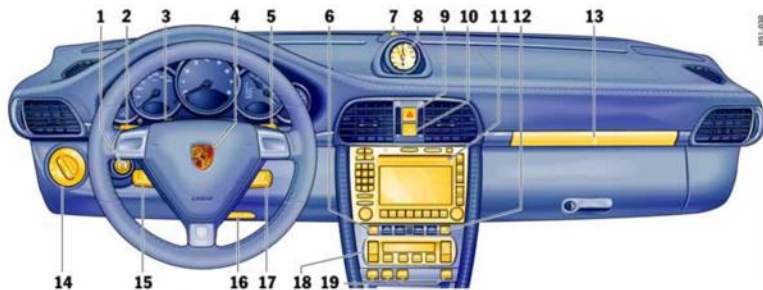
On vehicles with the Sport Chrono package, the brightness of the orientation light can be changed in PCM.

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



## Operation, Instruments

1. Ignition lock/ steering lock
2. Turn signals/ high beam/ headlight flasher stalk
3. Hands-free microphone for telephone
4. Horn
5. Wiper/ washer stalk, rear window wiper
6. Button for seat heating, left
7. Interior temperature sensor/ GPS antenna
8. Stopwatch
9. Emergency flasher switch
10. Central locking button, readiness display for alarm system
11. Porsche Communication Management (PCM)
12. Button for seat heating, right
13. Cupholder
14. Light switch
15. Operating lever for on-board computer
16. Locking lever for steering-wheel adjustment
17. Operating lever for automatic speed control
18. Operating panel for air conditioning
19. Buttons for rear spoiler, Porsche Active Suspension Management (PASM), Sport mode, Porsche Stability Management (PSM)





### Ignition/Starter Switch with anti-theft Steering Lock

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

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

#### **f For your safety, fasten safety belts.**

- f Please observe the chapter "IMMOBILIZER" on Page 19.
- f Please observe the chapter "KEY WITH RADIO REMOTE CONTROL" on Page 20.

### Before starting the engine

- f Apply the footbrake.
- f **Manual transmission:**  
Move the gearshift lever into neutral.  
**The clutch pedal must be depressed fully before the starter will engage.**
- f **Tiptronic:**  
Move the selector lever to **P** or **N**.

### Switch position 0

#### **Initial position**

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

To withdraw the ignition key:

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

### Switch position 1

#### **Ignition on**

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

#### **Note on operation**

All electrical equipment can be switched on.

- f Please observe the chapter "WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER" on Page 122.

### Switch position 2

#### Start engine

- f Turn ignition key to ignition lock position 2.
- f Please observe the chapter "STARTING PROCEDURES" on Page 82.

### Switch position 3

#### Ignition off

- f Turn ignition key to ignition lock position 3.

### Locking the steering column

#### Automatic locking

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



#### Warning!

**Risk of an accident.**

**The steering wheel will lock and will cause loss of steering.**

- f Never remove key from the ignition lock or turn the key off while the vehicle is moving.
- f **Always withdraw the ignition key** when leaving the vehicle.

#### Automatic unlocking

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

#### Note

- f To avoid battery run-down, always remove the ignition key from the ignition lock. Please observe the chapter "BATTERY" on Page 258.

#### Gong

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

## Starting Procedures

- f Please observe the chapter "IMMOBILIZER" on Page 19.
- f Please observe the chapter "EMISSION CONTROL SYSTEM" on Page 211.



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

- f Fasten safety belts before driving away.

### Before starting the engine

- f Apply the footbrake.
- f **Manual transmission:**  
Move the gearshift lever into neutral.  
**The clutch pedal must be depressed fully before the starter will engage.**
- f **Tiptronic:**  
Move the selector lever to **P** or **N**.

Temperature sensors on the engine automatically provide the correct fuel/air mixture required for starting.

Therefore, it is **not necessary to depress the accelerator pedal** while starting a cold or a warm engine.

### Starting the engine

- f Turn ignition key to ignition lock position 2.
- f As soon as the engine starts, release the ignition key.

The first operation of the starter is ended automatically when the engine starts.

If the engine does not start, subsequent starter operations will not be ended automatically.

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

- f Wait about 10 seconds before engaging the starter again.
- f When starting the engine, be ready to drive immediately.  
Drive vehicle at moderate speeds and avoid engine speeds above 4,200 rpm during the first 5 minutes.
- f Do not let the engine idle to warm up.



**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.**

- f 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.**

- f Never leave the engine idling unattended.

### Danger of fire.

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

## Stopping Engine

- f Turn key back to position 3.
- f Do not stop engine immediately after hard or extended driving.  
Keep engine running at increased idle for about two minutes to prevent excessive heat build-up before turning off engine.
- f To avoid battery run-down, always remove the ignition key from the ignition lock.
- f Make sure that when you leave the car, even briefly, you have withdrawn the ignition key.
- f Engage the steering lock by moving the steering wheel to the left or right.  
Turn the steering wheel to the locking position before you switch off the engine so that you don't have to exert yourself when locking or unlocking the steering.



### Warning!

**Danger of injury. Hot engine compartment components can burn skin on contact.**

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

## Engine-compartment blower, radiator fan

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



### Warning!

#### **Risk of injury.**

**After the engine is switched off, the engine-compartment temperature is monitored for approx. 30 minutes.**

**During this period, and depending on temperature, the engine-compartment blower may continue to run or start to run.**

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

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

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

## Automatic garage door

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

- f To check this, drive your Porsche close to the garage door. Make sure not to interfere with the operating range of the door.
- f Run the engine at different speeds.

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

## Instrument Panel USA Models

**Also refer to the corresponding chapters in the Owner's Manual.**

1. Engine oil temperature gauge
2. Speedometer with analogue display
3. Tire pressure warning light
4. Turn signal indicator light, left
5. Tachometer
6. High beam indicator light
7. Turn signal indicator light, right
8. ABS warning light
9. Cooling system  
Temperature gauge, warning light
10. Fuel  
Level gauge, warning light
11. Engine oil pressure gauge
12. Adjustment button for instrument illumination  
and trip counter
13. Odometer and daily trip mileage display
14. Automatic speed control indicator light
15. Light sensor for instrument illumination
16. Airbag warning light
17. Emission control warning light  
(Check Engine)
18. Central warning light
19. Onboard computer display
20. Porsche Stability Management  
Multifunctional PSM light
21. Brake warning light
22. Safety belt warning light
23. Tiptronic indicator
24. Clock and outside temperature display
25. Adjustment button for clock

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

### Note

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

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



## Instrument Panel Canada Models

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

1. Engine oil temperature gauge
2. Speedometer with analogue display
3. Tire pressure warning light
4. Turn signal indicator light, left
5. Tachometer
6. High beam indicator light
7. Turn signal indicator light, right
8. ABS warning light
9. Cooling system  
Temperature gauge, warning light
10. Fuel  
Level gauge, warning light
11. Engine oil pressure gauge
12. Adjustment button for instrument illumination  
and trip counter
13. Odometer and daily trip mileage display
14. Automatic speed control indicator light
15. Light sensor for instrument illumination
16. Airbag warning light
17. Emission control warning light  
(Check Engine)
18. Central warning light
19. Onboard computer display
20. Porsche Stability Management  
Multifunctional PSM light
21. Brake warning light
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25. Adjustment button for clock

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

### Note

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

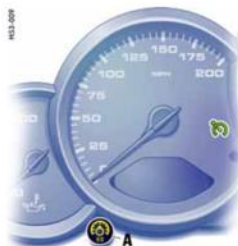
This information can help to warn you about situations which may be hazardous to you or your car.





#### Engine oil temperature

The engine oil temperature is indicated in the left instrument.



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

#### Automatic Speed Control Indicator light

Indicates automatic speed control readiness.

## Instrument Illumination

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

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

### **Warning!**

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

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

### **Note**

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



#### Dimming Instrument Illumination

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

MSZ 019



#### Trip Odometer



**Warning!**

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

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

#### Resetting to zero

- Press adjustment button **A** for approximately one second **or**
- Reset the distance in the "SET" menu of the on-board computer.  
Please observe the chapter "SET BASIC SETTING ON ON-BOARD COMPUTER" on Page 120.

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



### Speedometer

The digital speedometer is integrated in the on-board computer.

The indication changes from mph to km/h when the units are changed from miles to kilometers.

### Changing over between Miles / Kilometers

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

- f Please observe the chapter "SET BASIC SETTING ON ON-BOARD COMPUTER" on Page 120.



### Tachometer

The tachometer shows the engine speed in revolutions per minute (rpm).

The beginning of the red marks at the right end of the scale indicates the maximum permissible engine rpm.

A speed limiter prevents the engine from being overrevved during acceleration. Before reaching this area, the next **higher** gear should be selected.

Shift to the next **lower** gear when the engine rpm drops below 1,500 rpm.

W51-0022



**Caution!**

**To avoid severe engine damage.**

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

### Turn Signal Indicator Light

Flashes in synchronism with the turn signals.

Left arrow – left turn signals

Right arrow – right turn signals

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

### High Beam

Indicator light

Lights when high beam or headlight flasher is switched on.

The indicator light goes out when the high beams are switched off.



## Cooling System

Temperature gauge (ignition on)

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

**Pointer to the left** – engine cold

- f Avoid high engine speeds and heavy engine loading.

**Pointer in the middle** – normal operating temperature

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

### Warning light "A"

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

- f Pull off the road, turn off the engine and allow to cool.
- f Check radiator and air passages in front end of car for obstructions.
- f Check coolant level.  
If necessary, add coolant and have fault remedied at an authorized Porsche dealer.  
Please observe the chapter "COOLANT LEVEL" on Page 199.

### Note

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

If the **coolant level** is too low, the warning light **flashes**.

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

- f Switch engine off and allow to cool.
- f Add coolant.
- f Have the cause of the fault remedied at an authorized Porsche dealer.  
Please observe the chapter "COOLANT LEVEL" on Page 199.

### Caution!

#### Risk of engine damage.

- f If the warning lights come on even though coolant level is correct, do not continue driving.
- f Have the fault remedied at the nearest authorized Porsche dealer.

### Engine compartment blower fan

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

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



#### Tiptronic

Indicator for selector lever position and engaged gear

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

943.007

#### If the selector lever is between two positions:

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

f Engage the selector lever correctly.

#### If there is a fault in the transmission:

- The **4th gear** display flashes.
- The warning "Tiptronic emergency run" appears on the on-board computer.
- f Please observe the chapter "REDUCED DRIVING PROGRAM" on Page 170.
- f Have the fault repaired immediately at an authorized Porsche dealer.
- f Please observe the chapter "TIPTRONIC S" on Page 165.



911 005



## Fuel

### Level gauge

When the ignition is on the fuel level is displayed.

- f Please observe the chapter "CAPACITIES" on Page 291.

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

### Note

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

### Warning light "A"

**When the engine is running, the warning light of the level gauge lights up** if less than approx. 2.6 U.S. gallons (10 liters) of fuel remains in the tank or the range on remaining fuel falls below approx. 30 miles (50 km).

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

- f Fill up at the next opportunity.



### Caution!

**To prevent damage to the emission control system and engine.**

- f Never drive the tank completely out of fuel.
  - f Avoid high cornering speeds after the warning lights have come on.
- 
- f Please observe the chapter "EMISSION CONTROL SYSTEM" on Page 211.

**If the level gauge warning light flashes,** there has been a system fault.

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

There will then be no reserve warning.

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



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

## Clock

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

## Setting the time



### Risk of an accident and loss of control.

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

## Setting hours

- f Press adjustment button **A** for about one second.  
Hour display flashes.
- f Turn button in the appropriate direction:  
to right – increase hours figure  
to left – decrease hours figure.

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

## Setting minutes

- f Press adjustment button again.  
Minutes display flashes.
- f Set by rotating as in hours mode.

## Leaving adjustment mode

Automatically after one minute or:

- f Press adjustment button again.

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

## Note

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

## Outside temperature

The outside temperature display **C** does not indicate, if ice is on the road.

Even if a temperature above 32 °F (0 °C) is displayed, ice may still form on the road, for instance on bridges or when the road passes through a heavily shaded area.



### Engine Oil Pressure

With the engine warmed up and running at a speed of 5000 rpm, the engine oil pressure should be approx. 3.5 bar.

info 006

If oil pressure drops abruptly and a message is displayed on the on-board computer when the engine is running on or when driving:

- f Stop immediately in a suitable place.
- f Switch off the engine.
- f Check oil level.  
Please observe the chapter "OIL DISPLAY AND MEASUREMENT OF THE ENGINE OIL LEVEL" on Page 118.
- f Please observe the chapter "ENGINE OIL LEVEL" on Page 201.
- f Add engine oil if necessary.

#### Caution!

**Risk of engine damage.**

- f Do not continue driving if there is an obvious oil leak.
- f Do not continue driving if the warning lights come on even though oil level is correct.
- f Have the fault remedied at the nearest authorized Porsche dealer.

### Battery

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

**If the warning is displayed by the on-board computer while the engine is running or while driving:**

- f Stop the car in a safe place and stop the engine.

#### **Possible causes**

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

#### Warning!

**Risk of an accident and risk of engine damage.**

**A broken drive belt means there is no power assistance to the steering (more effort is required to steer) and coolant pump function will stop.**

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



## Check Engine Warning Light

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

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

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

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



## Caution!

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

- f Have the fault remedied at the nearest authorized Porsche dealer immediately.



## Central warning light

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

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

- f Please observe the chapter "INFO WARNING MESSAGES" on Page 102.

### **SWW** Brake warning light USA

### **(i)** Brake warning light Canada

The warning light on the instrument panel lights up:

- if the handbrake is on,
- if the brake fluid level is low,
- if the brake pads have reached the wear limit,
- if the brake circuit division is defective.

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

- f Please observe the chapter "WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER" on Page 122.



## On-Board Computer (BC)

### Display field

The display field is beneath the tachometer.

### Readiness for operation

- With ignition switched on,
- with engine running.



## Operation, controls

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

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

## Operating lever

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

### Selecting functions of the on-board computer

- ! Push lever up **3** or down **4**.

### Confirming selection (Enter)

- ! Push the lever forward **1**.

### Moving back one or several selection levels

- ! Pull the lever back **2** once or several times **or**
- ! Select the arrow on the on-board computer display with the operating lever and push the operating lever forward **1**.

### Note

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

## Functions and display possibilities



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

### Note

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

### Basic setting

- Central display: .... Radio station

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

## Calling on-board computer functions in display "C"

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

The following displays can be called step by step:

- Average speed (o mph),
- Average consumption (o mpg),
- Range on remaining fuel (mi → ),
- Tire pressure
- Navigation information (if activated in the SET menu).

### Note

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

### Switching selection field "D" on or off

- f Push operating lever forward or back.

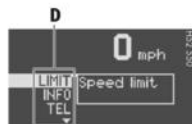
### Arrow symbol "E" for continuation

Arrow symbol:

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

Arrow symbol:

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



- D - Selection field
- E - Continuation arrow symbols

## LIMIT

### Acoustic warning signal for speed limit

The acoustic warning signal can be activated for speeds above 6 mph (10 km/h). The signal sounds when the preset speed is exceeded.

For the signal to sound again, the driving speed must fall below the preset speed by at least 3 mph (5 km/h).

#### Switching on selection field "D"

- f Push operating lever forward.

#### Setting the speed

- f Select LIMIT with the operating lever.



- f Push operating lever forward.



#### Option 1:

##### Accepting current speed

- f Push operating lever forward.



The acoustic warning signal is activated for the current speed.

Display: ■

**Option 2:  
Presetting speed**

- f Select "LIMIT active" with the operating lever:

- ☐ not active  
☒ active

- f If "not active", push the operating lever forward.



- f Select "xx mph" with the operating lever.



- f Push operating lever forward.



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

upwards: speed is increased  
downwards: speed is decreased

**Note:**

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

- f Push operating lever forward.

**Switching the acoustic warning signal off**

- f Select "LIMIT active" with the operating lever.

- f Push operating lever forward.

Display: ☐

## INFO Warning messages

### Switching on selection field "D"

- f Push operating lever forward.

### Calling warning messages

- f Select INFO with the operating lever.



- f Push operating lever forward.



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

- f Push operating lever forward.



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

## TEL Telephone information

### Switching on selection field "D"

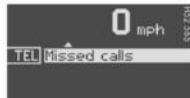
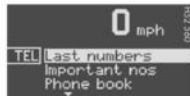
- f Push operating lever forward.

### Recalling telephone information

- f Select TEL with the operating lever.



- f Push operating lever forward.



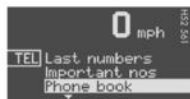
## Note

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

### Example:

#### Selecting from the telephone book and calling

- f Select "Phone book" with the operating lever.



- f Push operating lever forward.

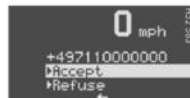


- f Select a person to call and push the operating lever forward.  
The connection is established.



- f Push the operating lever forward to end the call.

### Incoming call



- f Select "Accept" or "Refuse" and push the operating lever forward.

## Note

Rejected phone calls can be recalled with the menu item "Missed calls".



#### CHRONO Stopwatch

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

- f Please observe the chapter "Sport display" in the separate PCM operating instructions.

#### Stopwatch on the instrument panel

The stopwatch has an analogue and a digital display.

The large pointer of the analogue display measures the seconds. The two small pointers measure hours and minutes. The display re-starts at zero after 12 hours.

Seconds and increments of 1/100th of a second can be read on the digital display.

The digital display and the display in the on-board computer can indicate up to 99 hours and 59 minutes.

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

#### Stopwatch displays:

- on the stopwatch on the instrument panel,
- in the on-board computer menu CHRONO,
- on the performance display in the PCM.

#### Starting/ stopping stopwatch

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

#### Note on operation

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

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

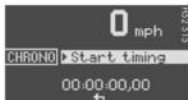
The only way to reset the stopwatch to zero is by selecting "Reset" in the CHRONO menu.

#### Starting the timing

- f Push operating lever forward.  
The selection field is switched on.



- f Select CHRONO with the operating lever.
- f Push operating lever forward.



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



#### PCM information

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

#### Stopping the timing

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

- f Select "Stop timing" with the operating lever.



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



The timing can be continued or reset to zero.

#### PCM information

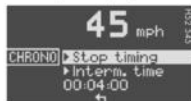
After timing has been stopped, a prompt asking whether the time is to be stored appears on the PCM.

#### Continue timing

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



- f Push operating lever forward.  
The stopwatch displays continue the timing.



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

#### Resetting the time

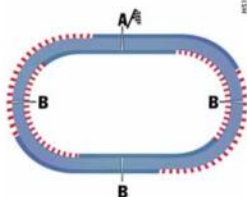
After timing has been stopped, the on-board computer display changes to the "Continue/Reset" selection.

- f Select "Reset" with the operating lever.



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





A - Lap  
B - Intermediate time

#### Displaying intermediate times

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

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#### To display an intermediate time:

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



- f Select "Intermediate time" with the operating lever and push the operating lever forwards.



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



- f You can stop the stopwatch or measure another intermediate time.

**In order to start timing a new lap:**

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



- f Select "New lap?" with the operating lever and push the operating lever forwards.



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

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



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

**PCM information**

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

## TPC Tire pressure monitoring

Please observe the chapter "TIRE PRESSURES" on Page 232.

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

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

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

The tire pressure monitoring offers the following functions:

- Display of the actual tire pressure while the vehicle is in motion
- Display of the deviation from the required pressure (refilling pressure)
- Display of currently set tire size and type
- Tire pressure warnings in two stages

### Safety notes!

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

- f When a flat tire has been displayed, immediately stop in a suitable place and check the tires for damage. If necessary, remedy the damage with a tire sealant.
  - f Do not by any means continue to drive with damaged tires.
  - f Sealing the tire with tire sealant is only an emergency repair, so you can drive to the next authorized Porsche dealer. The maximum permitted speed is **50 mph (80 km/h)**.
  - f Do not drive with tires whose tire pressure drops again in a short period of time. In cases of doubt, have tires checked by an authorized Porsche dealer.
  - f Damaged tires must be immediately replaced by an authorized Porsche dealer.
- Tire repairs are not permissible under any circumstances.**

- f If the tire pressure monitoring is defective (e.g. defective wheel transmitter), contact an authorized Porsche dealer immediately and have the damage repaired. The tire pressure will not be monitored by a defective tire pressure monitoring.
- f Tires lose air over time without a tire defect being present. A tire pressure warning will then appear in the on-board computer display. Correct the tire pressure at the next opportunity.
- f The tire pressure monitoring gives a warning about tire damage due to natural pressure loss as well as about a gradual loss of pressure due to foreign objects. The tire pressure monitoring cannot warn you about tire damage that occurs suddenly (e.g. flat tire due to abrupt external effects).



#### Tire pressure function of the on-board computer

The tire pressure function of the on-board computer displays the tire pressures (actual pressure) dependent on temperature in the four wheels.

You can watch the tire pressure rise as the temperature increases while driving.

**This display is only for information.**

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

#### Displaying the tire pressure function of the on-board computer

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



#### Pressure info in Tire pressure menu

In accordance with physical principles, the air pressure changes as the temperature changes. The tire pressure increases or decreases by around 1.5 psi (0.1 bar) for every 18 °F (10 °C) change in temperature.

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

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

The tire pressure to be corrected (refill pressure) is indicated on the displayed wheel.

Example: If “-1.5 psi (-0.1 bar)” is displayed, 1.5 psi (0.1 bar) must be added to this tire.

#### Note

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

#### Calling up the “Info pressure” display

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

#### Note

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



#### Tire type info in Tire pressure menu

Information about the currently set tires:

- Tire type:  
Summer tires, winter tires
- Tire size:  
18, 19 inch

"Info tires" shows the current tire settings.

#### Calling up the "Info tires" display

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

#### Tire selection in the "Set" menu

- f Push operating lever forward in order to switch on the selection field.
- f Select "TPC" with the operating lever.



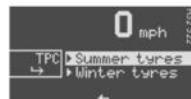
- f Push operating lever forward.  
The display changes to the Tire pressure menu.



- f Select "Set" with the operating lever.



- f Push the operating lever forward.



- f Select desired tire type:  
summer or winter.
- f Push operating lever forward.  
A display for confirming the selected type of tire appears.

f f f



- f Select "Continue" and push the operating lever forward.



- f Select the appropriate tire size (18 or 19 inch) and push operating lever forward.  
A display for confirming the selected tire size appears.

#### Note

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



- f Select "Continue" and push the operating lever forward.

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



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

#### Note

The message "Process aborted" appears if the setting process is interrupted. All entries made up to this point are lost, and the original settings remain in effect.

Only if the message "Process complete" appears after the settings have been made will the tire pressure monitoring re-learn the wheels.

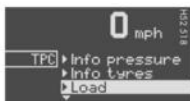
- f Please observe the chapter "SYSTEM LEARNING" on Page 115.

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

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

- f Use only tires approved by Porsche.

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



- f Please observe the chapter "TIRE PRESSURES FOR COLD TIRES" on Page 290.
- f Make sure that the tire pressures correspond to the on-board computer settings. Correct the tire pressures if necessary.

**Load**  
(depending on equipment level)

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



- f Select partial load or full load and push the operating lever forward.

### Tire pressure warnings

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

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

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



#### Stage 1 – Add air

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

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

This tire pressure warning appears with vehicle stopped and can be deactivated.

The tire pressure warning light in the instrument panel goes out when the tire pressure has been corrected.



#### Stage 2 – Flat tire

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

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

This tire pressure warning appears when driving and can be deactivated.

The tire pressure warning light in the instrument panel goes out when the tire pressure has been corrected.



### System learning

The tire pressure monitoring begins to "learn" the wheels after a wheel change, wheel transmitter replacement or update of the tire settings. During this process, the tire pressure monitoring recognizes the tires and their locations. The onboard computer displays the message "TPC inactive – system learning".

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

- The display of the Tire pressure function of the onboard computer shows lines.
- The required pressures for cold tires at 68 °F (20 °C) are indicated in the Info pressure display in the Tire pressure menu.
- Tire pressure warnings are issued without tire pressure and position information (**figure**) as soon as the vehicle's own wheels have been detected and the tire pressure warning light has gone out.

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

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

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

### Changing a wheel and replacing tires

- f New wheels must be fitted with radio transmitters for the tire pressure monitoring. Before tires are changed, the battery charge state of the wheel transmitters should be checked at an authorized Porsche dealer.
- f Switch the ignition off when changing a wheel.

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

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

- f Update the onboard computer settings when the vehicle is stationary the next time.

## Warning light

The warning light in the speedometer lights up:

- When a loss in pressure has been detected
- If the tire pressure monitoring is faulty
- When learning newly mounted wheels/ wheel sensors, as long as the vehicle's own wheels have not yet been recognized.

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

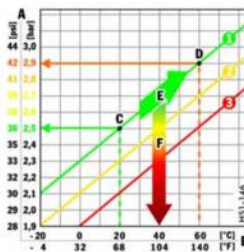
## No monitoring

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

Monitoring is not active when:

- the tire pressure monitoring is faulty,
- wheel transmitters for the tire pressure monitoring are missing,
- temporarily after changing a wheel (learning phase),
- more than four wheel transmitters are detected,
- there is external interference by other radio sources, e.g. wireless headphones,
- tire temperatures are too high.

f Please observe the chapter "WARNINGS ON THE INSTRUMENT PANEL AND THE ON-BOARD COMPUTER" on Page 122.



Pressure increase as the result of temperature increase

- A Tire pressure
- B Tire temperature
- C Tire pressures for cold tires
- D Tire pressure for hot tires
- E Pressure increase as the result of temperature increase
- F Pressure drop in faulty/leaking tires
- 1. Required-pressure line
- 2. Warning stage 1 (from -3 to -6 psi (-0.2 bar to -0.4 bar))
- 3. Warning stage 2 (from -6 psi (-0.4 bar))

In accordance with physical principles, the air pressure changes as the temperature changes. The tire pressure increases or decreases by around 1.5 psi (0.1 bar) for every 18 °F (10 °C) change in temperature.

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

#### Tire pressure specifications

Information on tire pressure for public roads can be found in this Owner's Manual or on the tire-pressure plate in the left door aperture.

These values apply to cold tires at 68 °F (20 °C) ambient temperature.

## OIL

### Display and measurement of the engine oil level



#### Risk of engine damage.

- f Regularly check the oil level after refuelling.
- f Do not allow the oil level to fall below the minimum mark.

#### Conditions for measuring the oil level

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

#### Oil return time

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

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

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

#### Initiating oil level measurement

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



- f Allow waiting time to elapse.
- f Once the measurement has been completed, you can read off the engine oil level on the segment display.



- If the segments are filled in up to the top line, the oil level has reached the maximum mark.
- f Under no circumstances add engine oil.



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

f Add engine oil immediately.

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

f Add engine oil immediately.

The difference between the minimum and maximum marks on the segment display is approx. 1.2 liters.

Each segment of the display corresponds to approx. 0.4 liter.

- f Add engine oil if necessary.  
Please observe the chapter "ENGINE OIL LEVEL" on Page 201.  
Before adding oil, switch ignition off.

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

#### Oil level measurement during refuelling

The oil level is automatically measured during refuelling.

#### Preconditions

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

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

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

- f Start oil level measurement in the "OIL" menu **or**
- f Start oil level measurement by switching on the ignition.

#### Failure

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

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

#### Switching on selection field "D"

- f Push operating lever forward.

#### Initiating measurement

- f Select "OIL" with the operating lever.



- f Push operating lever forward.  
Measurement is started.

## SET Basic setting on on-board computer

### Switching on selection field "D"

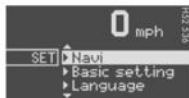
- f Push operating lever forward.

### Changing the basic setting of the on-board computer

- f Select "SET" with the operating lever.



- f Push operating lever forward.



- f Select the desired function with the operating lever:

## Reset

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

## Units

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

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

- **Change display**  
Audio information (set radio station)  
Range on remaining fuel  
Empty
- **Telephone Info**  
When Telephone information is active, incoming telephone calls are displayed on the on-board computer.