



Emission control system

Good to know – Owner's Manual supplement

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Mobility and Minor Repairs

Emission control system

Information

This description completes the corresponding content in the "Mobility and Minor Repairs" section of your Vehicle Owner's Manual.

In the interest of pure air

The pollution of our environment has become a problem that is increasingly giving us cause for worry. We urge you to support our efforts to purify the air by cleaning the pollutants emitted by motor vehicles. Porsche has developed an exhaust gas purification system that cleans or reduces the exhaust components that can be harmful to the environment. Your Porsche is equipped with such a system.

Porsche provides a warranty on the exhaust gas cleaning system of your new vehicle, which is the subject of the conditions listed in the warranty booklet.

As the owner of the vehicle, you are responsible for carrying out regular maintenance work on the vehicle and for recording all maintenance work carried out. In order to simplify logging, it is best to have service work carried out by Porsche dealers.

They have Porsche-trained technicians and special tools that enable fast and effective service.

To ensure the effectiveness of the exhaust gas cleaning system:

- ▶ Have your vehicle serviced correctly and in accordance with the recommendations described in your service manual. Lack of care and im-

proper use of the vehicle impair the function of the exhaust gas cleaning system and could result in damage.

- ▶ Do not remove or modify any exhaust gas cleaning system components.
- ▶ Do not modify or remove any devices (heat shields, switches, ignition cables, valves, etc.) designed to protect the exhaust gas cleaning system of your vehicle. This can not only cause serious engine damage, but also cause fires if unburned fuel enters the exhaust system.
- ▶ Do not continue driving your vehicle if you notice misfires or other unusual phenomenon.

Function of exhaust gas cleaning

A running vehicle engine uses energy that is generated by the combustion of a mixture of air and fuel. Depending on whether a vehicle is driven fast or slow or whether the engine is hot or cold, some of the fuel (hydrocarbons) may not be burned completely, but enter the crankcase or exhaust system. In addition, hydrocarbons can enter the atmosphere because fuel evaporates from the fuel tank. When these hydrocarbons (HC) are released, they contribute to undesired air pollution.

Carbon monoxide (CO) and nitrogen oxides (NO_x) are other engine emissions. They also occur during the combustion process and enter the exhaust system. To reduce these pollutants, your Porsche is equipped with precisely calibrated fuel injection, which ensures an absolutely balanced air/fuel mixture under all operating conditions.

Oxygen sensors

The oxygen sensors fitted in the exhaust system continuously monitor the oxygen content of the exhaust gases and report this data to an electronic control unit. The control unit corrects the air/fuel ratio so that an accurately measured air/fuel mixture is always supplied to the engine.

Crankcase ventilation

The crankcase ventilation prevents unwanted emissions from the crankcase of the engine from entering the ambient atmosphere. These emissions are returned from the crankcase to the intake tract. There, the emissions are mixed with the intake air and then burned in the engine.

Catalytic converters

The catalytic converters are effective "cleaning devices" installed in the exhaust system of the vehicle. The catalytic converters burn the undesired pollutants contained in the exhaust gases before they enter the atmosphere.

The exclusive use of unleaded fuel is of crucial importance for the shelf life of the catalytic converters.

For this reason, only use unleaded fuel.

The catalytic converters will be damaged under the following circumstances:

- Push on or towing the vehicle
- Engine misfires
- Switch off the ignition while driving
- Driving till the fuel tank runs empty
- Other unusual operating conditions

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- ▶ Do not continue driving your vehicle under these conditions, as unburnt fuel may enter the catalytic converters. This could cause the catalytic converters to overheat. The use of leaded fuel for this vehicle is prohibited under federal law.

Fuel consumption

The fuel consumption depends on where, when and how you drive, how the vehicle is equipped and the general condition it is in.

A vehicle that has been coordinated and properly maintained as specified helps to achieve optimum fuel consumption values.

- ▶ Have your vehicle tuned according to the specification.
 - The air cleaner must be free of dirt so that the engine can “breathe” freely.
 - The battery must be fully charged.
 - The track must be adjusted correctly.
 - Tires must be inflated at the correct pressure.
- ▶ Always monitor your fuel consumption.
- ▶ Develop a smooth driving style and avoid speed changes if possible.
- ▶ Avoid “racing starts” and abrupt stopping.
- ▶ Do not drive in low gears for longer than necessary. Early upshifting without tormenting the engine helps to save fuel.
- ▶ Long “warm-run phases” when the vehicle is stationary are fuel waste. Do not start the vehicle until you are ready to drive off. Accelerate slowly and gently.
- ▶ Switch off the engine if the vehicle is stationary for an extended period of time.

- ▶ Additional weight carried in the vehicle increases fuel consumption. Always keep the load to a minimum and take out all unnecessary things.
- ▶ Organize your journeys so that you can carry out several tasks per journey.
- ▶ Every electrical accessory increases fuel consumption.
- ▶ Only switch on the air conditioning if necessary.
- ▶ Only drive with the roof transport system fitted if you need it.

The consumption value in miles per gallon (mpg) estimated by the EPA is used for comparison purposes. The actual value may differ from the estimated value depending on the driving speed, weather conditions and trip length. Your actual consumption on highways (highway mileage) may be below the estimated value.

- ▶ Observe all local and national speed limits.