

- ▶ Do not place objects under the seat that could press against the seat from below.
- ▶ No moisture in or on the seat.

### Indicator light for the front-seat passenger airbags



The indicator light for the front-seat passenger airbags indicates the operating state of the front-seat passenger airbags.

The light indicates whether the airbags are either activated or deactivated.



- ▶ The indicator light lights up when a child is properly seated in a child restraint system or when the seat is empty. The airbags on the front passenger side are not activated.
- ▶ The indicator light does not light up when, for instance a correctly seated person of sufficient size is detected on the seat. The airbags on the front passenger side are activated.

### Detected child restraint systems

The system generally detects children seated in a child restraint system, particularly in child restraint systems required by NHTSA at the point in time when the vehicle was manufactured. After installing a child restraint system, make sure that the indicator light for the front-seat passenger airbags lights up. This indicates that the child restraint system has been detected and the front-seat passenger airbags are not activated.

### Strength of the driver's and front-seat passenger airbag

The explosive power that activates driver's/front-seat passenger airbags very much depends on the positions of the driver's/front passenger seat.

To maintain the accuracy of this function over the long term, calibrate the front seats as soon as a respective message appears on the Control Display.

### Calibrating the front seats

#### **Warning**

There is a risk of jamming when moving the seats. There is a risk of injury or risk of damage to property. Make sure that the area of movement of the seat is clear prior to any adjustment.

A corresponding message appears on the Control Display.

1. Press the switch and move the respective seat all the way forward, until it stops.
2. Press the switch forward again. The seat still moves forward slightly.
3. Readjust the seat to the desired position.

The calibration procedure is completed when the message on the Control Display disappears.

If the message continues to be displayed, repeat the calibration.

If the message does not disappear after a repeat calibration, have the system checked as soon as possible.

## Tire Pressure Monitor TPM

### Concept

The system monitors tire inflation pressure in the four mounted tires. The system warns you if there is a significant loss of pressure in one or more tires.

## General information

Sensors in the tire valves measure the tire inflation pressure and, depending on the model, the tire temperature.

Further information and instructions on using the system can also be found under Tire inflation pressure, refer to page 221.

## Functional requirements

The following conditions must be met for the system; otherwise, reliable flagging of a loss of tire inflation pressure is not assured:


- ▷ After a tire or wheel replacement, a reset was performed with the correct tire inflation pressure.
- ▷ After the tire inflation pressure was adjusted to a new value, a reset was performed.
- ▷ Wheels with TPM wheel electronics.

## Status display

### Current status

The system status can be displayed on the Control Display, e.g., whether or not the system is active.

Via iDrive:

1. "My Vehicle"
2. "Vehicle status"
3.  "Tire Pressure Monitor"

The current status is displayed.

## Tire conditions

### General information

Tire and system status are indicated by the color of the wheels and a SMS text message on the Control Display.

### All wheels green

System is active and will issue a warning related to the tire inflation pressures stored during the last reset.

### One to four yellow wheels

A flat tire or major drop in the tire inflation pressure has occurred in the indicated tires.

### Gray wheels

It may not be possible to identify tire pressure losses.

Possible causes:


- ▷ Malfunction.
- ▷ The system is being reset.

### Additional information

The status control display additionally shows the current tire inflation pressures and, depending on the model, tire temperatures. The values shown are instantaneous measurements and may vary depending on driving style or weather conditions.

## Resetting the system

Via iDrive:

1. "My Vehicle"
2. "Vehicle status"
3.  "Tire Pressure Monitor"
4. Switch on drive-ready state and do not drive off.
5. Reset tire inflation pressure: "Perform reset".
6. Drive away.

The wheels are displayed in gray and the following is displayed "Resetting Tire Pressure Monitor...".

After a travel time of several minutes, the set tire inflation pressures are accepted as reference values. The reset is completed automatically while driving.

After a successfully completed reset, the wheels on the Control Display are shown in green and

"Tire Pressure Monitor active. See label for recommended pressures." is displayed.

You may interrupt this trip at any time. When you continue the reset resumes automatically.

## Messages

### General information

A low tire inflation pressure may cause the DSC Dynamic Stability Control to be switched on.

### Safety information

#### **Warning**

A damaged regular tire with low or missing tire inflation pressure impacts handling, such as steering and braking response. There is a risk of accident. Do not continue driving. Repair the flat tire or replace the wheel.

### If a tire inflation pressure check is required

#### Message

A symbol with a Check Control message appears on the Control Display.

#### Symbol Possible cause



The system has detected a wheel change, but no reset was done.

Inflation was not carried out according to specifications.

The tire inflation pressure has fallen below the level of the last confirmation.

#### Measure

1. Check the tire pressure and correct as needed.
2. Carry out a reset of the system after a tire change.

### If the tire inflation pressure is low

#### Message



A yellow warning light is illuminated in the instrument cluster.

In addition, a symbol with a Check Control message appears on the Control Display.

#### Symbol Possible cause



There is a flat tire or a major loss in tire inflation pressure.

No reset was performed for the system. The system therefore issues a warning based on the tire inflation pressures before the last reset.

#### Measure

1. Reduce your speed and stop cautiously. Avoid sudden braking and steering maneuvers.
2. Identify the damaged wheel. Check the air pressure in all four tires, for instance using the tire pressure gauge of a tire repair kit.
3. Repair the flat tire, for instance with a tire repair kit or by changing the tire.

If no tire repair kit is available, contact a dealer's service center or another qualified service center or repair shop.

## System limits

### Temperature

The tire inflation pressure depends on the tire's temperature.

Driving or exposure to the sun will increase the tire's temperature, thus increasing the tire inflation pressure.

The tire inflation pressure is reduced when the tire temperature falls again.

These circumstances may cause a warning when temperatures fall very sharply.

## Sudden tire pressure loss

The system cannot indicate sudden serious tire damage caused by external circumstances.

## Failure performing a reset

The system does not function properly if a reset has not been carried out, for instance a flat tire is reported though tire inflation pressures are correct.

## Malfunction



The yellow warning light flashes and is then illuminated continuously. A Check Control message is displayed. It may not be possible to identify tire pressure losses.

Examples and recommendations in the following situations:

- ▶ A wheel without TPM wheel electronics is mounted: have it checked by a dealer's service center or another qualified service center or repair shop as needed.
- ▶ Malfunction: have system checked by a dealer's service center or another qualified service center or repair shop.
- ▶ The system was unable to complete the reset. Perform a system reset again.
- ▶ Interference caused by systems or devices with the same radio frequency: after leaving the area of the interference, the system automatically becomes active again.

## Declaration according to NHTSA/FMVSS 138 Tire Pressure Monitoring System

Each tire, including the spare (if provided) should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.) As an added safety feature, your vehicle has been equipped with a tire pres-

sure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability. Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale. Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

## Flat Tire Monitor FTM

### Concept

The system detects tire inflation pressure loss on the basis of rotation speed differences between the individual wheels while driving.