

At speeds below 20 mph (30 km/h), the front wheels lock cyclically during braking. The digging-in effect achieved in the process reduces the stopping distance on off-road terrain. This limits steering capability.

BAS (Brake Assist System)

- Observe the "Important safety notes" section (> page 66).

⚠ WARNING

If BAS is malfunctioning, the braking distance in an emergency braking situation is increased. There is a risk of an accident.

In an emergency braking situation, depress the brake pedal with full force. ABS prevents the wheels from locking.

BAS operates in emergency braking situations. If you depress the brake pedal quickly, BAS automatically boosts the braking force, thus shortening the stopping distance. The brakes will function as usual once you release the brake pedal. BAS is deactivated.

BAS PLUS (Brake Assist System PLUS)

- Observe the "Important safety notes" section (> page 66).

BAS PLUS is only available in vehicles equipped with DISTRONIC PLUS.

For BAS PLUS to assist you when driving, the radar sensor system must be:

- activated (> page 277)
- operational

With the help of the radar sensor system, BAS PLUS can detect obstacles that are in the path of your vehicle for an extended period of time.

If the radar sensor system is malfunctioning, BAS PLUS will not be available. The brake system is still available with complete brake boosting effect and BAS.

BAS PLUS provides braking assistance in hazardous situations at speeds greater than 4 mph (7 km/h).

At speeds of up to approximately 40 mph (70 km/h), BAS PLUS can also detect stationary objects. Examples of stationary objects are stopped or parked vehicles.

To prevent a front-end collision, BAS PLUS calculates the brake force necessary if:

- you approach an obstacle, and
- BAS PLUS has detected a risk of collision

At a speed less than 20 mph (30 km/h): if you depress the brake pedal, BAS PLUS is activated. The increase in brake pressure will be carried out at the last possible moment.

At a speed greater than 20 mph (30 km/h): if you depress the brake pedal sharply, BAS PLUS automatically raises the brake pressure to a value adapted to the traffic situation.

If BAS PLUS demands particularly high braking force, preventative passenger protection measures (PRE-SAFE®) are activated simultaneously.

- ▶ Keep the brake pedal depressed until the emergency braking situation is over. ABS prevents the wheels from locking.

BAS PLUS is deactivated and the brakes function as usual, if:

- you release the brake pedal.
- there is no longer any danger of a rear-end collision.
- no obstacle is detected in front of your vehicle.

If you have activated DSR (> page 246), BAS PLUS is likewise deactivated.

⚠ WARNING

BAS PLUS cannot always clearly identify objects and complex traffic situations. BAS PLUS cannot intervene in these cases. There is a risk of an accident.

Always pay careful attention to the traffic situation and be ready to brake.

In particular, the detection of obstacles can be impaired if:

- there is dirt on the sensors or anything else covering the sensors.
- snow or heavy rain
- interference by other radar sources
- there are strong radar reflections, for example in parking garages
- a narrow vehicle traveling in front, e.g. a motorbike
- a vehicle traveling in front on a different line relative to the center of your vehicle

WARNING

BAS PLUS does not react:

- to people or animals
- to oncoming vehicles
- to crossing traffic
- when cornering

As a result, BAS PLUS may not intervene in all critical situations. There is a risk of an accident.

Always pay careful attention to the traffic situation and be ready to brake.

Following damage to the front end of the vehicle, have the configuration and operation of the radar sensors checked at a qualified specialist workshop. This also applies to collisions at low speeds where there is no visible damage to the front of the vehicle.

COLLISION PREVENTION ASSIST

General notes

COLLISION PREVENTION ASSIST consists of Adaptive Brake Assist and the distance warning function, which are described in the following.

Distance warning function

Important safety notes

- ❗ Observe the "Important safety notes" section (> page 66).

WARNING

The distance warning function does not react:

- to people or animals
- to oncoming vehicles
- to crossing traffic
- when cornering

Thus, the distance warning function cannot provide a warning in all critical situations. There is a risk of an accident.

Always pay careful attention to the traffic situation and be ready to brake.

The distance warning function cannot always clearly identify objects and complex traffic situations.



In such cases, the distance warning function may:

- give an unnecessary warning
- not give a warning

Always pay careful attention to the traffic situation and do not rely solely on the distance warning function.

Function

- ▶ **To activate/deactivate:** activate or deactivate the distance warning function in the on-board computer (> page 272).

When the distance warning function is activated, the multifunction display shows the  symbol, as long as the HOLD function is not switched on (> page 207). On vehicles with Active Parking Assist, the  symbol is displayed when P is engaged or you are driving faster than 22 mph (35 km/h).

The distance warning function can help you to minimize the risk of a front-end collision with a vehicle ahead or reduce the effects of such a collision. If the distance warning