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CONTENT & A-Z



**The Ultimate
Driving Machine**



OWNER'S HANDBOOK.

THE BMW 3 SERIES SALOON.

Driver Assistance Systems

Vehicle equipment

This chapter describes all standard, country-specific and optional equipment available for the model series. It may therefore describe equipment and functions which are not installed in your vehicle, for example on account of the optional equipment selected or the country specification. This also applies to safety-relevant functions and systems. Please comply with the relevant laws and regulations when using the corresponding functions and systems.

Manual Speed Limiter

Principle

The system can be used to set a speed limit so that speed restrictions are not exceeded.

General

The system enables speeds from a value of 30 km/h/20 mph and above to be set as a speed limit. Below the set speed limit, the vehicle can be driven without restriction.

Overview

Buttons on the steering wheel

Button	Function
	System on/off.
	Store current speed. Speed Limit Assist: adopt the suggested speed manually.
	Rocker switch: Change the speed limit.

Operation

Switching on



Press the button on the steering wheel.

The current speed is adopted as the speed limit. When switching on at a standstill or driving at low speed, 30 km/h/20 mph is set as the speed limit. The speedometer marker is set to the current speed.

When activating the speed limit it is possible that Dynamic Stability Control DSC will be switched on and the drive mode switched to COMFORT.

Switching off



Press the button on the steering wheel.

The system switches off automatically in the following situations, for example:

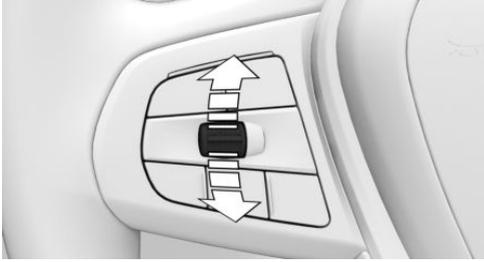
- ▷ When switching the engine off.
- ▷ When switching on Cruise Control.
- ▷ When activating some programs using the Driving Experience Control.

The displays turn off.

Interrupting

The system is interrupted in reverse or when rolling backwards at idle speed.

Change speed limit



Press the rocker switch repeatedly up or down until the desired speed is set.

- ▶ Each time the rocker switch is pressed to the resistance point, the speed limit is increased or decreased by 1 km/h, 1 mph.
- ▶ Each time the rocker switch is pressed beyond the resistance point, the speed limit changes to the next multiple of 10 km/h on the km/h display or the next multiple of 5 mph on the mph display in the speedometer.

If the set speed limit has been reached or unintentionally exceeded, for example when driving downhill, there is no active brake intervention.

If you set a speed during the journey which is below the current speed, the vehicle coasts down to the set speed limit.

The current speed can also be stored by pressing the button:

SET Press the button on the steering wheel.

Exceeding the speed limit

The system gives a warning if the travelling speed exceeds the set speed limit.

You can intentionally exceed the speed limit. There is no warning in such a case.

To intentionally exceed the set speed limit, press the accelerator pedal all the way down.

The limit automatically becomes active again as soon as the current speed falls below the set speed limit.

Warning when the speed limit is exceeded

Visual warning



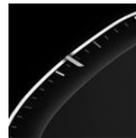
If the speed limit is exceeded: the indicator lamp in the instrument cluster flashes for as long as you exceed the set speed limit.

Acoustic warning

- ▶ A signal sounds if you inadvertently exceed the set speed limit.
- ▶ If the speed limit is reduced to below the driven speed during the journey, the warning sounds after a little time.
- ▶ If you intentionally exceed the speed limit by fully pressing the accelerator pedal, no warning sounds.

Displays in the instrument cluster

Display in the speedometer



- ▶ Green marker: system is active.
- ▶ Grey mark: the system is interrupted.
- ▶ No marker: system is switched off.

Indicator lamp



- ▶ If the indicator lamp is illuminated: the system is switched on.
- ▶ If the indicator lamp is flashing: set speed limit is exceeded.
- ▶ Grey indicator lamp: the system is interrupted.

Cruise Control

Principle

This system allows a desired speed to be set using the buttons on the steering wheel. The desired speed is then maintained by the system. It does this by automatically accelerating and braking the vehicle as necessary.

General

The system can be activated from 30 km/h/20 mph.

Depending on the vehicle setting, the characteristics of Cruise Control may change in certain areas, for example acceleration in ECO PRO drive mode is less pronounced.

Safety notes

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

WARNING

The risk of an accident may be increased if the system is used in certain situations, such as:

- ▷ On stretches of road with many corners and bends.
- ▷ In heavy traffic.
- ▷ If the road is icy, if there is fog or snow, in wet conditions or on a loose road surface.

There is a risk of accidents or material damage. Only use the system if it is possible to drive at a constant speed.

WARNING

The desired speed may be set incorrectly by mistake or called up accidentally. There is a risk of accident. Adjust the desired speed to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

Overview

Buttons on the steering wheel

Button Function



Cruise Control on/off.



RESUME

To resume Cruise Control with last setting.



CANCEL

To interrupt Cruise Control.



SET

Store current speed.
Speed Limit Assist: adopt the suggested speed manually.



Rocker switch:
Set the speed.

Switching Cruise Control on/off

Switching on



Depending on the equipment, press the corresponding button on the steering wheel.



The indicator lamps are illuminated in the instrument cluster and the marker in the speedometer is positioned at the current speed.

Cruise Control is active. The driven speed is maintained and stored as the desired speed.

Dynamic Stability Control DSC is switched on, if necessary.

Switching off



Depending on the equipment, press the corresponding button on the steering wheel.



The displays turn off. The stored desired speed is deleted.

Interrupting Cruise Control

Interrupting manually



Press the button while the system is activated.

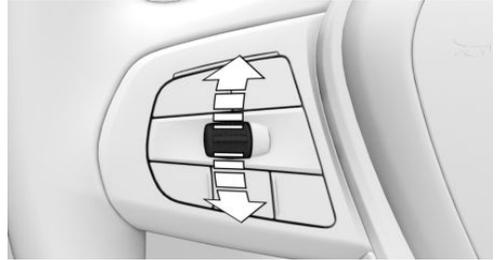
Interrupting automatically

The system is interrupted automatically in the following situations:

- ▶ If the driver brakes.
- ▶ Steptronic transmission: if the selector lever is moved out of selector lever position D.
- ▶ Manual transmission: if the clutch is pressed for a few seconds or released with no gear engaged.
- ▶ Manual transmission: if too high a gear has been engaged for the speed.
- ▶ If Dynamic Traction Control DTC is activated or Dynamic Stability Control DSC deactivated.
- ▶ If Dynamic Stability Control DSC intervenes.

Setting the speed

Maintaining and saving the speed



While the system is interrupted, press the rocker switch up or down once.

When the system is switched on, the current speed is maintained and stored as the desired speed.

The stored speed is displayed on the speedometer.

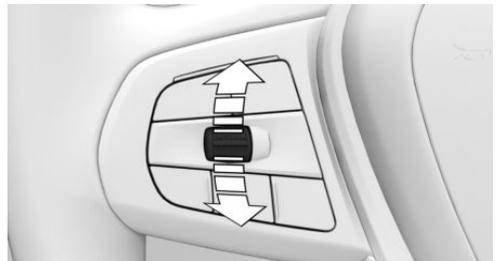
Dynamic Stability Control DSC is switched on, if necessary.

The speed can also be stored by pressing the button.



Press the button.

Changing the speed



Press the rocker switch repeatedly up or down until the desired speed is set.

If the system is active, the displayed speed is stored and the vehicle adjusts to the stored speed when the road is clear.

- ▶ Each time the rocker switch is pressed to the resistance point, the desired speed is increased or decreased by 1 km/h, 1 mph.
- ▶ Each time the rocker switch is pressed beyond the resistance point, the desired speed changes to the next multiple of 10 km/h on the km/h display or the next multiple of 5 mph on the mph display in the speedometer.
The maximum speed which can be set depends on the vehicle.

- ▶ When the rocker switch is pressed to the resistance point and then held there: the vehicle accelerates or decelerates without the need to press the accelerator pedal.

When the rocker switch is released, the vehicle maintains the final speed. Pressing beyond the resistance point accelerates the vehicle more rapidly.

Resuming Cruise Control

If Cruise Control is interrupted, it can be resumed by calling up the stored speed.

Before calling up the stored speed, make sure that the difference between the current speed and the stored speed is not too great. Otherwise, there may be unintentional braking or acceleration.

RESUME With the system interrupted, press the button.

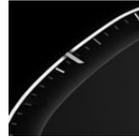
Cruise Control is resumed with the stored values.

In the following instances, the stored speed is deleted and therefore cannot be called up again:

- ▶ When the system is switched off.
- ▶ When drive-ready state is switched off.

Displays in the instrument cluster

Display in the speedometer



- ▶ Green indicator: system is active, the indicator shows the desired speed.
- ▶ Grey mark: system is interrupted; the mark shows the stored speed.
- ▶ No marker: system is switched off.

Indicator lamp



- ▶ Green indicator lamp: the system is active.
- ▶ Grey indicator lamp: the system is interrupted.
- ▶ No indicator lamp: the system is switched off.

Displays in the Head-Up Display

Some information from the system can also be shown in the Head-Up Display.



The symbol is displayed when the set desired speed has been reached.

System limits

The desired speed is also maintained when driving downhill. The vehicle may drive slower than the desired speed on uphill gradients if there is not enough drive power.

In ECO PRO drive mode, it is possible that the vehicle will drive faster or slower than the desired speed setting in some situations, for example on downward or upward gradients.

Active Cruise Control with Stop&Go function ACC

Principle

This system allows you to set a desired speed and a desired distance from the vehicle in front, using the buttons on the steering wheel.

When the road ahead is clear, the system maintains the desired speed. The vehicle accelerates or brakes automatically.

If there is a vehicle driving in front, the system adapts the speed of your vehicle in order to maintain the set distance from the vehicle ahead. The speed is adapted as far as the given situation allows.

General

A radar sensor in the front bumper and a camera on the rear-view mirror are used to detect vehicles ahead.

Depending on the vehicle setting, the characteristics of Cruise Control may change in certain areas, for example acceleration in ECO PRO drive mode is less pronounced.

The distance can be set in several stages and for safety reasons is dependent on the respective speed.

If the vehicle ahead brakes to a standstill and sets off again shortly afterwards, the system is able to recognise this as far as the given conditions allow.

Safety notes

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions.

Observe the traffic situation and intervene actively if the situation warrants it.

WARNING

An unsecured vehicle can start moving and rolling away. There is a risk of accident. Before leaving the vehicle, secure it to prevent it from rolling away.

Observe the following to ensure that the vehicle is secured against rolling away:

- ▷ Apply the parking brake.
- ▷ Turn the front wheels towards the kerb on upward or downward gradients.
- ▷ Additionally secure the vehicle on upward or downward gradients, for example with a chock.

WARNING

The desired speed may be set incorrectly by mistake or called up accidentally. There is a risk of accident. Adjust the desired speed to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

WARNING

There is a risk of accident if the difference in speed relative to other vehicles is excessively high. This may occur, for example, in the following situations:

- ▷ When quickly approaching a slowly moving vehicle.
- ▷ If another vehicle suddenly veers into the vehicle's own lane.
- ▷ When quickly approaching stationary vehicles.

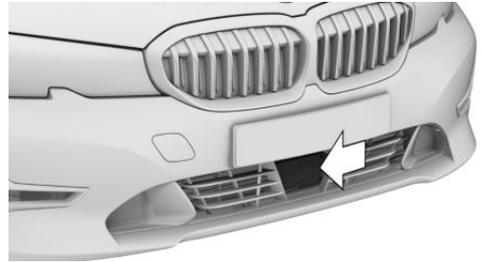
There is a risk of injury or even death. Observe the traffic situation and intervene actively if the situation warrants it.

Overview

Buttons on the steering wheel

Button	Function
	With steering and lane control assistant: Cruise Control on/off.
	With steering and lane control assistant: Select the function.
	Without steering and lane control assistant: Cruise Control on/off.
	Store current speed. Speed Limit Assist: adopt the suggested speed manually.
	With steering and lane control assistant: To interrupt Cruise Control. To resume Cruise Control with last setting.
	Without steering and lane control assistant: To resume Cruise Control with last setting.
	Without steering and lane control assistant: To interrupt Cruise Control.
	Increase the distance. Switch distance control on/off.
	Reduce the distance. Switch distance control on/off.
	Rocker switch: Set the speed.

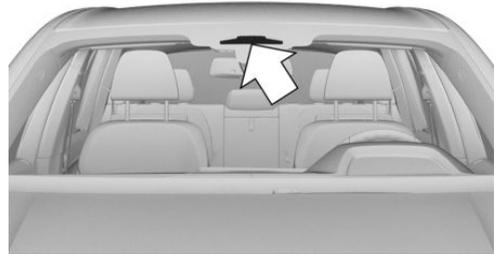
Radar sensor



The radar sensor is in the lower area of the front bumper.

Keep the radar sensor clean and unobstructed.

Camera



The camera is located near the rear-view mirror.
Keep the windscreen clean and clear in this area.

Use

The system can be used to optimum effect on well-constructed roads.

The minimum speed that can be set is 30 km/h/20 mph.

The maximum speed which can be set is limited and depends on the vehicle and its equipment, for example.

Higher speeds can be set by switching to Cruise Control without distance control.

The system can also be activated when the vehicle is at a standstill.

Switching Cruise Control on/off and interrupting

With steering and lane control assistant: Assisted Driving Mode

General



The button is used to switch the set function on and off.



The button is used to set the primary function.

Setting the function



When the system is active, press the button until the desired function is selected in the toolbar. The Assisted Driving Mode function bar is shown at the bottom of the instrument cluster.

Symbol	Function
	Cruise control with distance control.
	Depending on equipment, cruise control with distance control and steering and lane control assistant.
	




The selected function is shown in green.
The setting is saved for the current driver profile.

Switching on

With steering and lane control assistant:

-  Press the button on the steering wheel.
-  Set Cruise Control if necessary.

Without steering and lane control assistant:



Press the button on the steering wheel.

The indicator lamps are illuminated in the instrument cluster and the marker in the speedometer is positioned at the current speed.

Cruise Control is active. The driven speed is maintained and stored as the desired speed.

Dynamic Stability Control DSC is switched on, if necessary.

Switching off

When switching off with the vehicle at a standstill, depress the brake pedal at the same time.

Press the button on the steering wheel:



With steering and lane control assistant.



Without steering and lane control assistant.

The displays turn off. The stored desired speed is deleted.

Interrupting manually

With the system active, press the button on the steering wheel:



With steering and lane control assistant.



Without steering and lane control assistant.

If interrupting the system when the vehicle is at a standstill, depress the brake pedal at the same time.

Interrupting automatically

The system is interrupted automatically in the following situations:

- ▶ If the driver brakes.
- ▶ If the selector lever is moved out of position D.

- ▶ If Dynamic Traction Control DTC is activated or Dynamic Stability Control DSC deactivated.
- ▶ If Dynamic Stability Control DSC intervenes.
- ▶ If the vehicle is stationary and the seat belt is unfastened and the driver's door is opened.
- ▶ If the system has not detected any objects for an extended period of time, for example on roads with little traffic and without defined boundaries.
- ▶ If the detection zone of the radar is disrupted, for example due to contamination or heavy rainfall.
- ▶ After an extended stationary period, if the vehicle was decelerated to a standstill by the system.

Setting the speed

Maintaining and saving the speed



While the system is interrupted, press the rocker switch up or down once. The system is activated.

The current speed is maintained and stored as the desired speed.

The stored speed is displayed on the speedometer.

Dynamic Stability Control DSC is switched on, if necessary.

The speed can also be stored by pressing the button.

SET

Press the button.

Changing the speed



Press the rocker switch repeatedly up or down until the desired speed is set.

If the system is active, the displayed speed is stored and the vehicle adjusts to the stored speed when the road is clear.

- ▶ Each time the rocker switch is pressed to the resistance point, the desired speed is increased or decreased by 1 km/h, 1 mph.
- ▶ Each time the rocker switch is pressed beyond the resistance point, the desired speed changes to the next multiple of 10 km/h on the km/h display or the next multiple of 5 mph on the mph display in the speedometer.

To repeat an action, hold the rocker switch in the relevant position.

Adjusting the distance

General

The distance setting is saved for the current driver profile.

Safety note

WARNING

The system does not relieve you of your personal responsibility. System limitations may mean that braking is performed too late. There is a risk of accidents or material damage. Pay close attention to the traffic conditions at all times. Adapt the distance to traffic and weather

conditions and comply with the prescribed safe distance by braking if necessary.

Reducing the distance



Press the button repeatedly until the desired distance is set.

The selected distance is displayed in the instrument cluster.

Increasing the distance



Press the button repeatedly until the desired distance is set.

The selected distance is displayed in the instrument cluster.

Adapting distance automatically

Depending on the equipment and national-market version: the system can be configured so that the distance is adapted automatically within the set distance setting according to the traffic situation or environmental factors, for example poor visibility.

The adaptation of the distance is indicated in the instrument cluster display.

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. If necessary, "Driving"
5. "Speed Assistant"
6. "Adjust distance acc. to situation"

Resuming Cruise Control

If Cruise Control is interrupted, it can be resumed by calling up the stored speed.

Before calling up the stored speed, make sure that the difference between the current speed and the stored speed is not too great. Otherwise, there may be unintentional braking or acceleration.

With the system interrupted, press the button on the steering wheel:



With steering and lane control assistant.



Without steering and lane control assistant.

Cruise Control is resumed with the stored values.

In the following instances, the stored speed is deleted and therefore cannot be called up again:

- ▷ When the system is switched off.
- ▷ When drive-ready state is switched off.

Switching between Cruise Control with/without distance control

Safety note

WARNING

The system does not respond to traffic traveling in front of you, but instead maintains the stored speed. There is a risk of accidents or material damage. Adjust the desired speed to the traffic conditions and brake if necessary.

Switching the Cruise Control mode

Switch Cruise Control without distance control on and off:



▷ Press and hold the button.



▷ Press and hold the button.

With steering and lane control assistant: switch on distance control:



Press the button.

Without steering and lane control assistant: switch on distance control:



▷ Press the button.

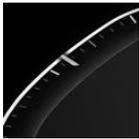
- ▶  Press the button.
A Check Control message is then displayed.

Displays in the instrument cluster

General

Depending on the vehicle's equipment, the displays in the instrument cluster may vary.

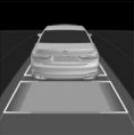
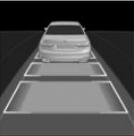
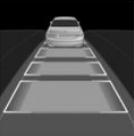
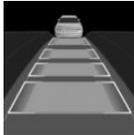
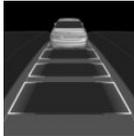
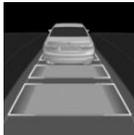
Display in the speedometer



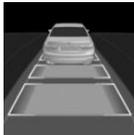
- ▶ Green indicator: system is active, the indicator shows the desired speed.
 - ▶ Grey mark: system is interrupted; the mark shows the stored speed.
- ▶ No marker: system is switched off.

Vehicle distance

The selected distance to the vehicle ahead is displayed.

Symbol	Description
	Distance 1.
	Distance 2.
	Distance 3. Corresponds to approximately half of the value of the speedometer reading, expressed in metres. Selected when the system is switched on for the first time.
	Distance 4.
	No display of distance control because the accelerator pedal is being pressed.
Symbol	Description
	Green symbol: Vehicle ahead detected.
	White vehicle symbol: No display of distance control because the accelerator pedal is being pressed.
	Green symbol: Vehicle ahead detected. The vehicle symbol goes out if no vehicle in front is detected. Vehicle symbol flashes green: Preceding vehicle has driven off.

Detected vehicle

Symbol	Description
	Green symbol: Vehicle ahead detected.

When the distance to the detected vehicle increases, the vehicle symbol in the distance display moves away.

If necessary, drive off yourself, for example by pressing the accelerator pedal or rocker switch.

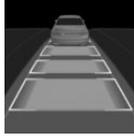
Indicator and warning lamps

Symbol	Description
	White vehicle symbol: No display of distance control because the accelerator pedal is being pressed.
	Green symbol: Vehicle ahead detected. The vehicle symbol goes out if no vehicle in front is detected. Vehicle symbol flashes green: Preceding vehicle has driven off.

Symbol	Description
	Grey symbol: System interrupted.
	Symbol flashes grey: The requirements for system operation are no longer being met. The system has been deactivated but will continue to brake until you actively take over by depressing the brake or accelerator pedal.
	Vehicle symbol flashes red and an acoustic signal sounds: Brake and perform an evasive manoeuvre if necessary.

Alternative displays

Symbol	Description
	Green indicator lamp: the system is active. No indicator lamp: the system is switched off.
	Vehicle symbol flashes: The requirements for system operation are no longer being met. The system has been deactivated but will continue to brake until you actively take over by depressing the brake or accelerator pedal.

Symbol	Description
	Vehicle symbol and distance bar flash red and an acoustic signal sounds: Brake and perform an evasive manoeuvre if necessary.
	System interrupted.

Displays in the Head-Up Display

Desired speed

Some information from the system can also be shown in the Head-Up Display.



The symbol is displayed when the set desired speed has been reached.

Distance information



The symbol is shown if the distance from the vehicle in front is too close.

The distance information is active under the following circumstances:

- ▶ Active Cruise Control switched off.
- ▶ Display in the Head-Up Display selected. Head-Up Display, see page 188.
- ▶ Distance too close.
- ▶ Speed above approximately 70 km/h, 40 mph.

Preventing overtaking

This function helps to prevent inadvertent overtaking on motorways.

Depending on the equipment and the national-market version, the system can be configured to prevent overtaking in the slower driving lane.

The setting applies to speeds over 80 km/h/50 mph.

If the set speed is significantly higher than the speed in the adjacent lane, it may be possible to pass or overtake other vehicles even if the function is switched on.

At speeds below 80 km/h/50 mph, vehicles on motorways are only overtaken with an adapted differential speed.

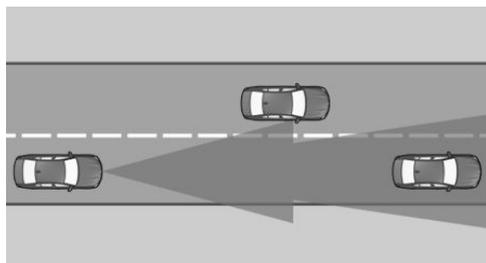
The driver can overtake or accelerate at any time by pressing the accelerator pedal.

Switching the function on/off:

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. If necessary, "Driving"
5. "Speed Assistant"
6. > "Avoid overtaking at the left side"
 - > "Avoid overtaking on the right"

System limits

Detection range



The system's detection capability and automatic braking capacity are limited.

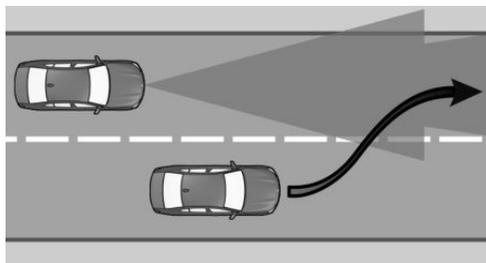
For example two-wheeled vehicles may not be detected.

Deceleration

The system does not decelerate in the following situations:

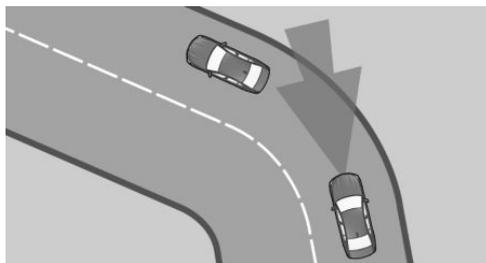
- > For pedestrians or similarly slow road users.
- > Depending on the equipment, at red traffic lights.
- > For crossing traffic.
- > For oncoming vehicles.

Vehicles cutting in



If another vehicle suddenly cuts in front of you, the system might not be able to restore the selected distance automatically. In some circumstances, it may also not be possible to restore the selected distance if you are driving significantly faster than vehicles in front, for example when rapidly approaching a lorry. If a vehicle is clearly detected in front of you, the system prompts you to intervene by braking, and if necessary by taking evasive action.

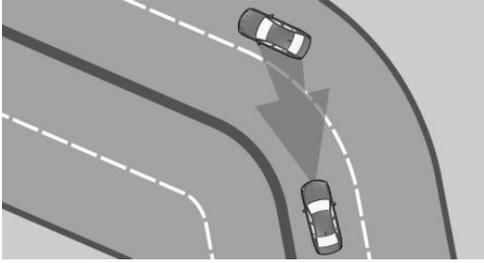
Cornering



If the desired speed is too high for cornering, it will be reduced slightly in the bend. However, the system may not detect bends in advance, so moderate your speed when cornering.

The system has a limited detection range. Situations can arise on tight bends where a vehicle

driving in front will not be detected or will be detected very late.



When your vehicle is approaching a bend, the angle of the bend may cause the system to respond temporarily to vehicles in the other lane. If the system responds by decelerating the vehicle, you may compensate for this by accelerating briefly. When the accelerator pedal is released again, the system will resume control of the vehicle's speed.

Driving off

The vehicle cannot drive off automatically in some situations, for example:

- ▷ On steep upward gradients.
- ▷ Before bumps or rises in the road.
- ▷ When towing a heavy trailer.

In such cases, press accelerator pedal.

Weather

The following restrictions may apply if the weather or lighting conditions are unfavourable:

- ▷ Impaired detection of vehicles.
- ▷ Brief interruptions when vehicles have already been detected.

Examples of unfavourable weather or lighting conditions:

- ▷ Wet roads.
- ▷ Snowfall.
- ▷ Slush.
- ▷ Fog.
- ▷ Oncoming light.

Pay attention when driving and respond to the prevailing traffic conditions. If necessary, intervene actively, for example by braking, steering or taking evasive action.

Drive power

The desired speed is also maintained when driving downhill. The vehicle may drive slower than the desired speed on uphill gradients if there is not enough drive power.

In ECO PRO drive mode, it is possible that the vehicle will drive faster or slower than the desired speed setting in some situations, for example on downward or upward gradients.

Malfunction

Radar sensor

The system cannot be activated if the radar sensor is not correctly aligned, for example if it is damaged while parking.

A Check Control message is displayed if the system has failed.

Have the system checked by a Service Partner of the manufacturer or another qualified Service Partner or a specialist workshop.

The system may have limited functionality if the radar sensor detection range is partially covered, for example by the number plate holder.

Camera

Detection of and response to stationary vehicles when approaching may be limited in the following situations:

- ▷ During the camera calibration process immediately after vehicle delivery.
- ▷ Failure or soiling of the camera. A Check Control message is shown.

Speed Limit Assist

Principle

When the systems in the vehicle, for example Speed Limit Info, detect a change in the speed limit, it is possible to adopt this new speed limit value for the following systems:

- ▶ Manual Speed Limiter.
- ▶ Cruise Control.
- ▶ Active Cruise Control with Stop&Go function ACC.

The speed value is proposed as a new desired speed for adopting. The relevant system must be activated for the speed value to be adopted.

Depending on the equipment, the destination system and the national-market version, it may be possible for the value to be adopted automatically.

Traffic light detection: Speed Limit Assist controls the speed when the vehicle approaches red traffic lights.

Safety notes

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

WARNING

The desired speed may be set incorrectly by mistake or called up accidentally. There is a risk of accident. Adjust the desired speed to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

Overview

Buttons on the steering wheel

Button	Function
	Adopt the suggested speed manually. Traffic light detection: accept the detected traffic lights manually.
	Rocker switch: Set the speed; see Cruise Control.

Switching on/off

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. If necessary, "Driving"
5. "Speed Assistant"
6. "Speed limits"
7. Select the desired setting:
 - ▶ "Adjust automatically": the detected speed limit is adopted automatically.
Traffic light detection: detected traffic lights are accepted automatically if possible.
 - ▶ "Adjust manually": the detected speed limit can be adopted manually.
Traffic light detection: detected traffic lights can be accepted manually.
 - ▶ "Show anticipation": detected speed limits are displayed in the instrument cluster without being adopted.
 - ▶ "Off": Speed Limit Assist is switched off.
Other proactive comfort functions – the route-ahead assistant, for example – may be switched off.

Displays in the instrument cluster

A message is displayed in the instrument cluster if the system and Cruise Control are switched on.

Symbol	Function
	Depending on the vehicle equipment, the indicator lamp illuminates green, together with the symbol for a cruise control system: Speed Limit Assist is active and detected speed limits can be adopted manually for the displayed system.
	Detected change in speed limit detected with immediate effect. Distance information shown alongside the symbol indicates there might be a change in the speed limit up ahead.
	Indicator lamp is illuminated green: the detected speed limit can be adopted with the SET button. Traffic light detection: the detected traffic lights can be accepted with the SET button. A green tick is displayed once it has been adopted.

Automatic adoption

In automatic mode, a detected speed limit is automatically adopted for Cruise Control.

 Press the button to switch back to the last value set.

Traffic light detection: detected traffic lights are accepted automatically if possible.

Manual adoption

A detected speed limit can be applied to Cruise Control manually.

Traffic light detection: detected traffic lights can be accepted manually.

 When the SET symbol is illuminated,

press the button.

Speed adjustment

Principle

It is possible to set whether the speed limit will be accepted exactly, or with a tolerance.

General

It is possible to set a speed adjustment for all speeds and an additional speed adjustment for speeds up to 60 km/h/40 mph.

The additional speed adjustment for speeds up to 60 km/h/40 mph can be activated or deactivated.

Adjusting

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. If necessary, "Driving"
5. "Speed Assistant"
6. Perform the desired setting:
 - ▷ "Adjust speed limits": set tolerance for speed adjustment with an effect on all speeds.
 - ▷ "2nd adjustment up to": activate or deactivate additional speed adjustment.
 - ▷ "Adjust speed limits": if additional speed adjustment is activated, set a tolerance for speeds up to 60 km/h/40 mph.

Adapting to the route

Principle

The system can be set so that it adapts the speed automatically to the route.

For example, the speed is reduced in the following situations if necessary:

- ▶ Before turning off.
- ▶ Before a roundabout.
- ▶ Before a bend.

Adjusting

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. If necessary, "Driving"
5. "Speed Assistant"
6. "Adjust to route"

Traffic light detection

Principle

Speed Limit Assist controls the speed when the vehicle approaches red traffic lights.

General

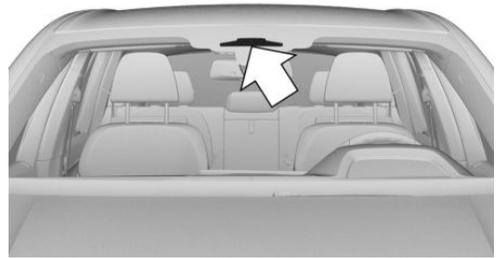
The camera near the interior mirror is used to detect red traffic lights.

If necessary, the system also takes into account information that has been saved in the navigation system.

Detected red traffic lights are displayed in the instrument cluster and, depending on the setting, can be taken into account by Speed Limit Assist either manually or automatically during the journey.

Overview

Camera



The camera is located near the rear-view mirror. Keep the windscreen clean and clear in this area.

Operating requirements

- ▶ Active Cruise Control with Stop&Go function ACC is activated.
- ▶ Speed up to approx. 80 km/h, approx. 50 mph.
- ▶ The function must be available in the country in which the vehicle is being driven.

Activating/deactivating

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. "Driving"
5. "Speed Assistant"
6. Select the desired setting:
 - ▶ "Consider traffic lights"

Additional settings

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. "Driving"
5. "Traffic light recognition"
6. Select the desired settings:

- ▶ "Display traffic light phases": when the vehicle is stopped at traffic lights, the detected phase of the lights can be displayed in the instrument cluster.
- ▶ "Drive off reminder": when the drive off reminder is activated, a visual and, where applicable, an acoustic indication is provided as soon as the traffic light turns to green and it is possible to continue driving.

Displays in the instrument cluster

Symbol	Meaning
	Red traffic light detected. As soon as it has been adopted and a green tick is displayed, the vehicle brakes to a standstill.
	Green traffic light detected.
	Green traffic light: the system is interrupted. If the grey traffic light is displayed with a red cross, this cannot be offered as an option for adopting.

System limits

Speed Limit Assist based on the Speed Limit Info system.

Take into account the Speed Limit Info system limits.

Depending on the country, displayed speed limits may not be available for acceptance, or may only be available to a limited extent, for example with speed information from the navigation system.

Cruise Control without distance control: depending on the system, it may not be possible to adopt speed limits automatically.

Speed limits that are ahead may only be adopted for Active Cruise Control ACC.

The system may not respond properly to the route if the position of the vehicle cannot be clearly determined by the navigation system.

The traffic light detection system may have limited functionality in the following situations, for example:

- ▶ If traffic lights are concealed, for example by other vehicles.
- ▶ At a road junction with multiple lanes where there are several sets of traffic lights.

For further information:

Limits of the Speed Limit Information system, see page 184.

Steering and lane control assistant

Principle

The system helps the driver keep the vehicle in lane. To do this, the system assists by performing steering movements, for example when cornering.

General

The system detects the position of the lane markings and the vehicle driving in front using five radar sensors and a camera.

Depending on the speed, the system orientates itself using the lane markings and vehicles driving in front.

Sensors on the steering wheel detect whether the steering wheel is being touched.

Safety note

⚠ WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

Overview

Buttons on the steering wheel

Button	Function
	Steering and lane control assistant including traffic jam assistant on/off.
	Set the function.



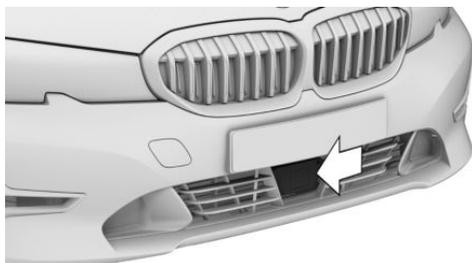
Steering and lane control assistant including traffic jam assistant on/off.



Set the function.

Radar sensors

The radar sensors are in the bumpers.



Front bumper in middle.



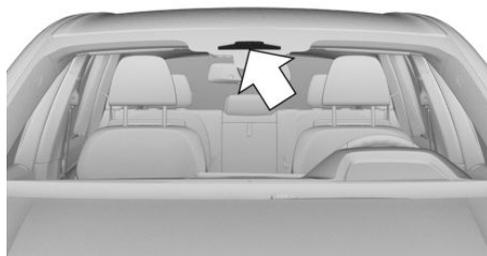
Front bumper at side.



Rear bumper.

Keep the bumpers clean and unobstructed in the area of the radar sensors.

Camera



The camera is located near the rear-view mirror. Keep the windscreen clean and clear in this area.

Operating requirements

- ▷ Speed under 210 km/h/130 mph.
- ▷ The driving path is sufficiently wide.
- ▷ Above 70 km/h, 43 mph: lane demarcations are detected on both sides.

- ▷ Below 70 km/h, 43 mph: lane markings on both sides or a vehicle driving in front is/are detected.
- ▷ Hands on the steering wheel.
- ▷ Sufficient corner radius.
- ▷ Driving in the centre of the lane.
- ▷ Turn indicator switched off.
- ▷ The sensor system calibration process is complete.
- ▷ Cruise Control with distance control active.
- ▷ Seat belt on the driver's side fastened.
- ▷ Collision warning active.
- ▷ Pedestrian warning active.
- ▷ Side collision warning active.

Switching on/off

Assisted Driving Mode

General



The button is used to switch the set function on and off.



The button is used to set the primary function.

Setting the function



When the system is active, press the button until the desired function is selected in the toolbar. The Assisted Driving Mode function bar is shown at the bottom of the instrument cluster.

Symbol	Function
	Cruise control with distance control.
	Depending on equipment, cruise control with distance control and steering and lane control assistant.
	



Cruise control with distance control.



Depending on equipment, cruise control with distance control and steering and lane control assistant.



The selected function is shown in green.

The setting is saved for the current driver profile.

Switching on

1.  Press the button on the steering wheel.
2.  Adjust the steering and lane control assistant if necessary.



Steering wheel symbol illuminates grey.
System is on standby and does not make any steering movements.

The system activates automatically when all operating requirements are met.



Steering wheel symbol illuminates green.
The system is active.

When the system switched on, the person warning with light braking function and the side collision warning are active.

Switching off



Press the button on the steering wheel.

The display is no longer illuminated.

The system does not execute any supporting steering movements.

Interrupting automatically

The system is interrupted automatically in the following situations:

- ▶ At a speed above 210 km/h/130 mph.
- ▶ When the steering wheel is released.
- ▶ If the driver brakes.
- ▶ When the steering wheel is turned sharply.
- ▶ When leaving your own lane.
- ▶ With the turn indicator switched on.
- ▶ When the lane is too narrow.
- ▶ If no lane marking has been detected for a certain time and there is no vehicle driving in front.
- ▶ If Active Cruise Control ACC is interrupted.
- ▶ If the seat belt on the driver's side is unfastened.



Steering wheel symbol illuminates grey.
System is on standby and does not make any steering movements.

The system activates automatically when all operating requirements are met.

Displays in the instrument cluster

Symbol	Description
	Steering wheel symbol grey: System on standby.
	Steering wheel symbol green: System is activated. The system is helping the driver keep the vehicle in lane.
	Yellow flashing steering wheel symbol: Lane marking driven over. The steering wheel vibrates where applicable.

Symbol	Description
	Yellow steering wheel symbol and an acoustic signal, if applicable: System interruption is imminent.
	Steering wheel symbol flashes red, signal sounds: System is switching off.
	Steering wheel symbol yellow: Hands are not around the steering wheel. System remains active.
	Red steering wheel symbol, acoustic signal: Hands are not around the steering wheel. System interruption is imminent. The system reduces the speed to a standstill if applicable. It is possible that the system will not execute any supporting steering movements.

Alternative displays

Depending on the vehicle's equipment, the displays in the instrument cluster may vary and are indicated as follows:

Symbol	Description
	Steering wheel symbol grey: System on standby.
	Steering wheel symbol green: System is activated.
	Depending on the equipment, steering wheel symbol flashes yellow: Lane marking driven over. The steering wheel vibrates where applicable.

Symbol

Description



Yellow steering wheel symbol and an acoustic signal, if applicable:

System interruption is imminent.



Depending on the equipment, steering wheel symbol flashes red, signal sounds:

System is switching off.



Green steering wheel symbol and lane marking symbol:

The system is helping the driver keep the vehicle in lane.



Steering wheel symbol yellow: Hands are not around the steering wheel. System remains active.



Red steering wheel symbol, acoustic signal:

Hands are not around the steering wheel. System interruption is imminent.

It is possible that the system will not execute any supporting steering movements.

With Active Cruise Control the system will reduce the speed if applicable.

Displays on the steering wheel



The two LEDs above the button fields are illuminated in the same way as the displays in the instrument cluster:

- ▷ Yellow: system interruption is imminent.
- ▷ Red: system is deactivated.

The steering wheel displays can be switched on/off if required.

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. "Feedback via steering wheel"
5. "Lighting elements"

Displays in the Head-Up Display

All the system information can also be displayed in the Head-Up Display.

System limits

General

The system cannot be activated or used sensibly in certain situations.

Safety note

WARNING

The system may not respond at all, or may respond too late, incorrectly or without justification due to system limitations. There is a risk of accident or material damage. Observe the in-

formation on the system limits and intervene actively if necessary.

Hands on the steering wheel

In the following situations, contact between the driver's hands and the steering wheel is not detected by the sensors:

- ▷ Driving when wearing gloves.
- ▷ Covers on the steering wheel.

Narrow lanes

The system cannot be activated or used sensibly when driving in narrow lanes, for example in the following situations:

- ▷ At road works.
- ▷ Depending on the equipment, where there are emergency lanes.
- ▷ In built-up areas.

Weather

The following restrictions may apply if the weather or lighting conditions are unfavourable:

- ▷ Impaired detection of vehicles and lane markings.
- ▷ Brief interruptions when vehicles have already been detected.

Examples of unfavourable weather or lighting conditions:

- ▷ Wet roads.
- ▷ Snowfall.
- ▷ Slush.
- ▷ Fog.
- ▷ Oncoming light.

Pay attention when driving and respond to the prevailing traffic conditions. If necessary, intervene actively, for example by braking, steering or taking evasive action.

Driver Attention Camera

Pay attention to the traffic conditions at all times.

The Driver Attention Camera detects that the driver is looking at the traffic.

The Driver Attention Camera may have limited functionality in the following situations, for example:

- ▷ If the Driver Attention Camera is covered by the steering wheel rim.
- ▷ If the driver is wearing sunglasses that block infrared light.

Assisted Driving Plus

Principle

Assisted Driving Plus helps the driver to control the vehicle in traffic queues.

Steering assistance takes place without the driver actively steering.

General

The system uses the sensors of the steering and lane control assistant.

Safety note

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic conditions, be ready to take over steering and braking at any time, and actively intervene if the situation warrants it.

The information for the steering and lane control assistant also applies.

For further information:

Steering and lane control assistant, see page [264](#).

Operating requirements

- ▷ Operating requirements of the steering and lane control assistant are met.
Operating requirements, see page 265.
- ▷ The steering and lane control assistant is active.
- ▷ The function is only available on certain road types, for example motorways.
- ▷ Driving on a road without pedestrians or cyclists.
- ▷ The driving path is sufficiently wide.
- ▷ Lane markings and a vehicle ahead are detected.
- ▷ Speed under approximately 60 km/h/approx. 40 mph.
- ▷ The Driver Attention Camera in the instrument cluster detects that the driver is looking at the traffic.
- ▷ During journeys in countries outside the vehicle's country of origin, Assisted Driving Plus must be available in the country in question.

Switching on



As soon as all of the operating requirements have been met, Assisted Driving Plus is displayed as an additional symbol in the function bar. The function bar is shown at the bottom of the instrument cluster.



Select Assisted Driving Plus with the button on the steering wheel.

The symbol for Assisted Driving Plus is shown in green.

Two green LEDs are illuminated on the steering wheel.

The indicator lamp is shown in green in the instrument cluster.

The system starts to help the driver to control the vehicle.

Displays in the instrument cluster

Symbol	Description
	Green indicator lamp: the system is active.
	White indicator lamp: the system is ready.
	Grey indicator lamp: the system is interrupted.

Alternative displays

Depending on the vehicle's equipment, the displays in the instrument cluster may vary and are indicated as follows:

Indicator lamp	Description
	Green indicator lamp: the system is active.

Displays on the steering wheel



The two LEDs above the button fields are illuminated in the same way as the displays in the instrument cluster:

- ▷ Green: the system is active.
- ▷ Yellow: the system has been interrupted.
- ▷ Red: the system is deactivated.

System limits

The system limits for the steering and lane control assistant apply.

Depending on the equipment version: lane change assistant

Principle

The system provides the driver with additional support when changing lanes on multi-lane roads.

General

The system uses the sensors of the steering and lane control assistant.

Safety note

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

The information for the steering and lane control assistant also applies.

For further information:

Steering and lane control assistant, see page [264](#).

Operating requirements

- ▷ Operating requirements of the steering and lane control assistant are met.
Operating requirements, see page [265](#).

- ▷ Driving on a road without pedestrians or cyclists and with physical barriers to oncoming vehicles, for example crash barriers.
- ▷ Lane marking detected.
- ▷ Maximum speed 180 km/h, 110 mph.
- ▷ The minimum speed is country-specific.

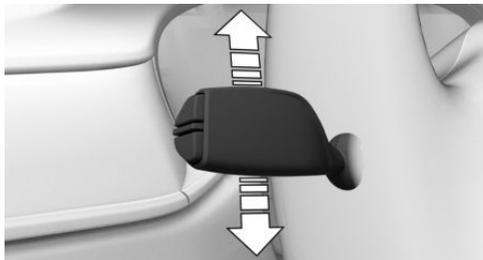
Switching lane change assistance on/off

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. If necessary, "Driving"
5. "Steering Assistant"
6. "Lane Change Assistant"

Changing lanes

1. Ensure that the traffic situation permits a lane change.
2. Push the turn indicator lever in the desired direction as far as the resistance point to indicate briefly.

After a short period, steering assistance in the desired direction is noticeable.



After the lane change, the system helps the driver keep the vehicle in lane.

Cancelling a lane change

The lane change can be cancelled by steering in the opposite direction.

Displays in the instrument cluster

Symbol	Description
	<p>Green steering wheel symbol.</p> <p>Green arrow symbol for lane-changing.</p> <p>The system carries out a lane change.</p>
	<p>Green steering wheel symbol.</p> <p>Grey line for lane marking on the appropriate side.</p> <p>The system detected the lane change request. Lane change not currently possible.</p>
	<p>Depending on country specifications:</p> <p>Green steering wheel symbol.</p> <p>Grey arrow symbol for lane-changing.</p> <p>Lane change not possible; operating requirements not met.</p>

Alternative displays

Depending on the vehicle's equipment, the displays in the instrument cluster may vary and are indicated as follows:

Symbol	Description
	<p>Green steering wheel symbol.</p> <p>Grey line for lane marking on the appropriate side.</p> <p>Green arrow symbol for lane-changing.</p> <p>The system carries out a lane change.</p>
	<p>Green steering wheel symbol.</p> <p>Grey line for lane marking on the appropriate side.</p> <p>No arrow symbol for lane-changing on the display.</p> <p>The system detected the lane change request. Lane change not currently possible.</p>
	<p>Depending on country specifications:</p> <p>Green steering wheel symbol.</p> <p>Grey line for lane marking on the appropriate side.</p> <p>Grey arrow symbol for lane-changing.</p> <p>Lane change not possible; operating requirements not met.</p>

System limits

The system limits for the steering and lane control assistant apply.

Depending on the equipment version: automatic formation of emergency lane

Principle

The system can help the driver to form an emergency lane in the event of traffic queues on motorways or similar roads.

As soon as the system detects a traffic queue, a Check Control message appears on the control display. Depending on the situation, the vehicle will be steered to the right or left within the current driving lane in order to form an emergency lane.

General

The system uses the sensors of the steering and lane control assistant.

Safety note

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

The information for the steering and lane control assistant also applies.

For further information:

Steering and lane control assistant, see page [264](#).

Operating requirements

- ▷ Steering and lane control assistant is activated.

- ▷ Traffic queue detected.
- ▷ Driving on a motorway or a similar road.
- ▷ Lane boundary detected.
- ▷ The function must be available in the country in which the vehicle is being driven.

Activating/deactivating

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. "Driving"
5. "Steering Assistant"
6. "Emergency Corridor Assistant"

Displays in the instrument cluster

Depending on the equipment and national-market version, the situations for the automatic formation of emergency lanes are displayed in the Assisted Driving View in the instrument cluster. Further information: Assisted Driving View, see page [167](#).

System limits

The system limits for the steering and lane control assistant apply.

Depending on the equipment version: lane change with active route guidance

Principle

The system supports the driver when it is necessary to change lanes in order to reach a destination.

General

The system uses the sensors of the steering and lane control assistant.

Safety note

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

The information for the Active Cruise Control and the steering and lane control assistant also applies.

For further information:

Active Cruise Control, see page 252.

Steering and lane control assistant, see page 264.

Operating requirements

- ▷ Active Cruise Control is activated.
- ▷ Driving on a motorway or a similar road.
- ▷ Lane boundary detected on the side of the desired lane change.
- ▷ Navigation system: route guidance is activated.
- ▷ Adaptation to the route details is switched on.
- ▷ The function must be available in the country in which the vehicle is being driven.

Changing lanes

1. One or more lane changes are required in order to reach a destination.

The system prepares for this lane change. To do this, the system identifies a suitable gap in the flow of traffic in the adjacent lane.

2. When a gap has been found, the speed is adapted so the vehicle stays level with the gap.
3. A lane change suggestion is displayed with a Check Control message.
4. If the traffic situation permits a lane change, the driver can steer the vehicle into the adjacent lane.

If the vehicle is equipped with the lane change assistant: once the Check Control message has been displayed, a lane change can be initiated by operating the turn indicator.

Display in the instrument cluster

The suggestion for the lane change is displayed and a green tick indicates that the function is active.

Depending on the equipment and national-market version, the traffic situation is displayed in the Assisted Driving View in the instrument cluster.

Further information: Assisted Driving View, see page 167.

Switching on adaptation to route details

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. If necessary, "Driving"
5. "Speed Assistant"
6. "Adjust to route"

System limits

The system limits for the Active Cruise Control and the steering and lane control assistant apply.

Park Distance Control PDC

Principle

PDC provides assistance when parking the vehicle. Objects in front of or behind the vehicle as it slowly approaches are indicated by means of acoustic signals and a display on the Control Display.

Depending on the equipment: obstacles at the side of the vehicle that are detected by the side ultrasonic sensors may also be reported by the lateral parking aid function.

General

The ultrasonic sensors for measuring distances are located in the bumpers, and if applicable on the side of the vehicle.

Their range is approximately 2 m, 6 ft, depending on the obstacle and environment.

An acoustic warning is given when the vehicle is approx. 70 cm, 27 in away from an object and a collision is imminent.

For objects behind the vehicle, the acoustic warning is given sooner, at a distance of approx. 1.50 m, 5 ft.

Safety notes

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

WARNING

If the vehicle is travelling at high speed when Park Distance Control PDC is activated, the warning may be delayed due to the physical conditions. There is a risk of injury or material damage. Avoid approaching an object at speed. Avoid moving off at speed while Park Distance Control PDC is not yet active.

Overview

Button in the vehicle



 Park Assistant button

Ultrasonic sensors



Ultrasonic sensors of the PDC, for example in the bumpers.

Operating requirements

- ▷ Do not cover sensors, for example by stickers, a bicycle rack or the like.
- ▷ Keep sensors clean and free from ice.

Switching on/off

Automatic activation

The system switches on automatically in the following situations:

- ▷ If selector lever position R is engaged while the engine is running.
- ▷ Depending on the equipment version: when approaching detected obstacles, if the speed is below approximately 4 km/h, 2.5 mph. The distance from the obstacle at which the system activates depends on the individual situation.

Automatic activation on detection of obstacles can be enabled and disabled.

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. "Parking and manoeuvring"
5. If necessary, "Automatic PDC activation"
6. "Automatic PDC activation"

The setting is saved for the current driver profile.

Depending on the equipment version, a respective camera view is switched on additionally.

Automatic deactivation when moving forwards

The system switches off once a certain distance or speed is exceeded.

Switch the system back on if necessary.

Switching on/off manually



Press the Park Assistant button.

- ▷ On: the LED is illuminated.
- ▷ Off: the LED is extinguished.

The image from the rear-view camera is shown when reverse gear is engaged and the Park Assistant button is pressed.

Depending on the equipment, the system cannot be switched off manually when reverse gear is engaged.

Warning

Acoustic signals

General

An intermittent sound indicates that the vehicle is approaching an object. For instance, if an object is identified to the rear left of the vehicle, the acoustic signal is emitted from the rear left loudspeaker.

The shorter the distance to an object, the shorter the intervals become.

A continuous tone sounds if the distance to a detected object is less than approximately 20 cm, 8 in.

If there are objects in front of and behind the vehicle at the same time, and they are at a distance of less than approximately 20 cm, 8 in, an alternating continuous tone sounds.

Steptronic transmission: the intermittent tone and the continuous tone are switched off when selector lever position P is engaged.

The intermittent sound switches off a short while after the vehicle comes to a standstill.

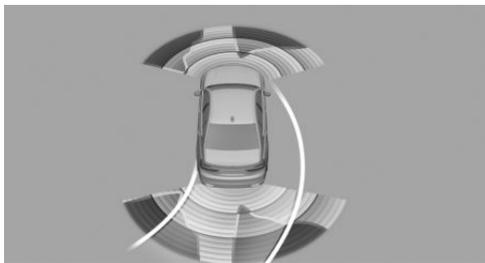
Volume control

The PDC acoustic signal volume can be adjusted.

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. "Parking and manoeuvring"
5. "Volume PDC signal"
6. Set the desired value.

The setting is saved for the current driver profile.

Visual warning



The vehicle's approach to an object is shown on the Control Display. Objects further away are shown even before an acoustic signal is given.

The display appears as soon as PDC is activated.

The recording range of the sensors is shown in green, yellow and red if obstacles are detected within the range.

Driving path lines are displayed for better estimation of the space required.

If the rear-view camera image is shown, it is possible to change over to PDC or, if required, to another view with obstacle markings:

1. If necessary, push the Controller to the left.
2. For example "Parking sensors"

Crossing traffic warning: depending on the equipment, the PDC display also warns of vehicles approaching from the sides at the front and rear.

For further information:

Crossing traffic warning, see page [298](#).

System limits

Safety note

WARNING

The system may not respond at all, or may respond too late, incorrectly or without justification due to system limitations. There is a risk of accident or material damage. Observe the in-

formation on the system limits and intervene actively if necessary.

Towing a trailer

The rear PDC functions are switched off when the trailer socket is in use or when towing a trailer.



A white symbol is shown.

Depending on the equipment, the detection range of the sensors is shown dark on the Control Display.

Limits of the ultrasound measurement

Certain conditions and objects may push ultrasonic measurement to its physical limits, including the following:

- ▷ Small children and animals.
- ▷ Persons wearing certain types of clothing, for example a coat.
- ▷ External interference with the ultrasound, for example by passing vehicles or loud machines.
- ▷ Sensors which are dirty, iced up, damaged or incorrectly adjusted.
- ▷ Certain weather conditions; for example, high humidity, wet conditions, snowfall, cold, extreme heat or strong wind.
- ▷ Trailer drawbars and tow hitches of other vehicles.
- ▷ Thin or wedge-shaped objects.
- ▷ Moving objects.
- ▷ Higher protruding objects, for example projecting walls.
- ▷ Objects with corners, edges and smooth surfaces.
- ▷ Objects with fine surfaces or structures, for example fences.
- ▷ Objects with porous surfaces.
- ▷ Small and low objects such as boxes.

- ▷ Obstacles and people at the edge of the lane.
- ▷ Soft obstacles or obstacles covered in foam.
- ▷ Plants or shrubs.
- ▷ Low objects already indicated, for example kerbs, may enter the sensors' blind areas before or after a continuous tone is given.
- ▷ The system does not take into account loads projecting beyond the outline of the vehicle.

False alarms

Under the following conditions, the system may issue a warning even though there is no obstacle in the detection range:

- ▷ In heavy rain.
- ▷ If the sensors are heavily soiled or covered with ice.
- ▷ If the sensors are covered with snow.
- ▷ On rough road surfaces.
- ▷ On uneven surfaces, for example speed bumps.
- ▷ In large, rectangular buildings with smooth walls, for example underground car parks.
- ▷ In washing bays and car washes.
- ▷ In the presence of dense exhaust fumes.
- ▷ If the cover of the trailer tow hitch is incorrectly seated.
- ▷ In the presence of other ultrasonic sources, for example sweeping machines, steam-jet cleaners or neon lights.

To reduce false warnings, for example in car washes, switch off automatic activation of Park Distance Control PDC when obstacles are detected if necessary.

Malfunction

A Check Control message is shown.



A white symbol is shown and the monitoring range of the sensors is shown in dark colour on the Control Display.

Park Distance Control PDC has failed. Have the system checked by a Service Partner of the manufacturer or another qualified Service Partner or a specialist workshop.

Depending on the equipment version: emergency braking function, Active PDC

Principle

The emergency brake function of PDC initiates emergency braking if there is an imminent risk of a collision.

General

Due to the system limits, a collision cannot be prevented under all circumstances.

The function is available at speeds below walking speed when driving or rolling in reverse.

Pressing the accelerator pedal interrupts the brake intervention.

After emergency braking to a stop, it is possible to continue a slow approach to the obstacle. To approach, lightly depress the accelerator pedal and release it again.

If the accelerator pedal is depressed for longer, the vehicle pulls away. Manual braking is possible at any time.

The system uses the ultrasonic sensors of Park Distance Control PDC and Park Assist.

Safety note

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. There is a risk of accident. Adapt your driving style to the traffic conditions. Additionally, look directly to check the traffic situa-

tion and the area around the vehicle and intervene actively where appropriate.

The Safety Information for the Park Distance Control PDC and Park Assist also applies.

For further information:

- ▶ Park Distance Control, PDC, see page 275.
- ▶ Park Assistant, see page 290.

Temporary switch-off

The emergency braking function can be switched off temporarily:

Confirm the message on the Control Display.

If the journey is continued in these environmental conditions, no further emergency braking is performed.

Settings

It is possible to set which areas of the vehicle are protected by the system.

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. "Parking and manoeuvring"
5. "Active PDC emergency interv."
6. Select the desired setting.

The setting is saved for the current driver profile.

System limits

The system limits of the Park Distance Control PDC and the Park Assist apply.

The system cannot be used in the following situations, for example:

- ▶ When driving with a trailer.

If necessary, deactivate the system via iDrive where applicable.

With Parking Assistant: lateral parking aid

Principle

The system warns about obstacles at the side of the vehicle.

General

The system uses the ultrasonic sensors of Park Distance Control PDC and Park Assist.

Safety note

WARNING

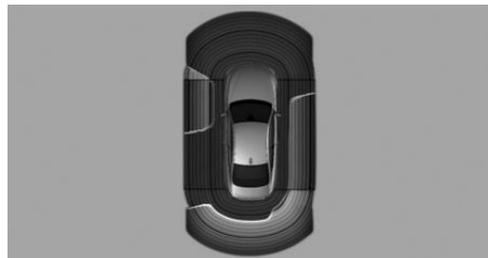
The system does not relieve you of your personal responsibility to assess the traffic situation correctly. There is a risk of accident. Adapt your driving style to the traffic conditions. Additionally, look directly to check the traffic situation and the area around the vehicle and intervene actively where appropriate.

The Safety Information for the Park Distance Control PDC and Park Assist also applies.

For further information:

- ▶ Park Distance Control, PDC, see page 275.
- ▶ Park Assistant, see page 290.

Display



Obstacle markings are displayed at the sides of the vehicle to protect the vehicle's flanks.

- ▷ Coloured markings: warning that obstacles have been detected.
- ▷ Grey markings, hatched surface: no obstacles have been detected.
- ▷ No markings, black surface: the area adjacent to the vehicle has not yet been detected.

Lateral parking aid limits

The system only shows stationary obstacles that were previously detected by the sensors when driving past.

The system does not detect whether an obstacle subsequently moves. The markings are shown in black after a certain time when the vehicle is stationary. The area next to the vehicle needs to be scanned again.

The lateral parking aid is not available when the trailer socket is in use or when trailer operation is activated.

The system limits of the Park Distance Control PDC and the Park Assist also apply.

Without Surround View: rear-view camera

Principle

The rear-view camera provides assistance when reverse parking or manoeuvring. It does this by showing an image of the area behind the vehicle on the Control Display.

Assistance functions, for example auxiliary lines, can also be shown on the display.

Safety note

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. There is a risk of accident. Adapt your driving style to the traffic conditions. Additionally, look directly to check the traffic situa-

tion and the area around the vehicle and intervene actively where appropriate.

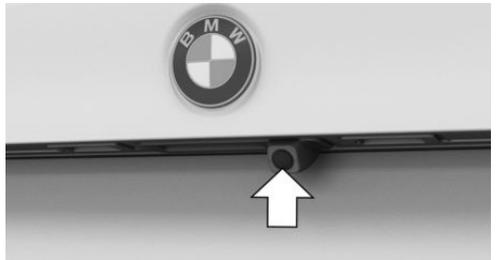
Overview

Depending on the equipment: button in the vehicle



 Park Assistant button

Camera



The camera lens is located in the handle strip of the boot lid.

Dirt can impair the quality of the image. Clean the camera lens if required.

Switching on/off

Automatic activation

The system automatically switches on when selector lever position R is engaged while the engine is running.

Automatic deactivation when moving forwards

The system switches off once a certain distance or speed is exceeded.

Switch the system back on if necessary.

Depending on the equipment: switching on/off manually



Press the Park Assistant button.

- ▶ On: the LED is illuminated.
- ▶ Off: the LED is extinguished.

The parking assistance functions are shown on the Control Display.

Switching the view via iDrive

If the rear-view camera view is not displayed, change the view via iDrive:

1. If necessary, tilt the Controller to the side.
2. "Rear view camera"

The image from the rear-view camera is shown.

Operating requirements

- ▶ The boot lid is completely closed.
- ▶ Keep the detection range of the camera clear. Projecting loads or carrier systems and trailers that are not connected to a trailer socket can restrict the detection area of the camera.

Display on the Control Display

Toolbars

Assistance functions can be activated manually using the function bars on the sides of the Control Display.

1. If necessary, tilt the Controller to the right.
2. With the corresponding equipment: "Camera picture"
3. ▶ "Parking guide lines".

Driving path lines and turning circle lines are shown.

- ▶ "Obstacle mark".

Depending on the equipment, the obstacles detected by Park Distance Control PDC are displayed by markings.

Zoom to the trailer tow hitch:

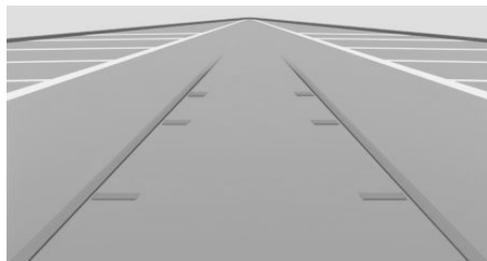
1. If necessary, tilt the Controller to the left.
2. "Tow hitch".

A zoomed-in image of the trailer tow hitch is displayed.

A number of assistance functions can be active simultaneously.

Parking guidance lines

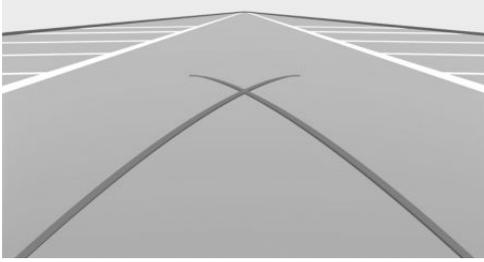
Driving path lines



The driving path lines help you to estimate the space required when parking and manoeuvring on a level road surface.

The driving path lines are dependent on the steering angle and continuously adapt to steering wheel movements.

Turning circle lines



The turning circle lines can only be shown in the camera image together with driving path lines.

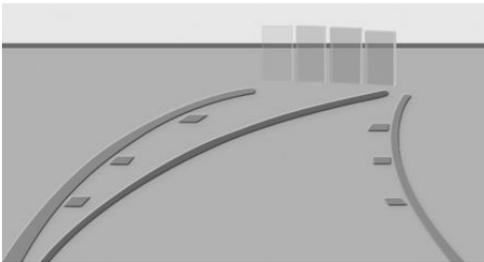
The turning circle lines show the trajectory of the smallest possible turning circle on a level road surface.

Once the steering wheel has been turned beyond a certain angle, only one turning circle line is displayed.

Parking with the help of driving path and turning circle lines

1. Position the vehicle so that the red turning circle line is within the boundaries of the parking space.
2. Turn the steering wheel so that the green driving path line covers the corresponding turning circle line.

Obstacle marker



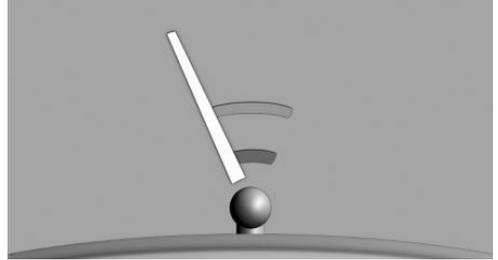
Depending on the equipment, obstacles behind the vehicle are detected by the Park Distance Control PDC sensors.

Obstacle markers can be shown in the image from the rear-view camera.

The colour grading of the obstacle markings is the same as the Park Distance Control PDC markings.

Zoom to trailer tow hitch

To assist with connecting up a trailer, it is possible to zoom in on the area around the trailer tow hitch.



Two static circle segments show the distance between the trailer and the trailer tow hitch.

A docking line dependent on the steering angle assists you in lining up the trailer tow hitch with the trailer.

When zooming in, remember that the view might no longer show certain obstacles.

Adjusting brightness and contrast via iDrive

With rear-view camera switched on:

1. If necessary, tilt the Controller to the right.
2.  "Camera picture"
3. Perform the desired setting:
 - ▷  "Brightness"
 - ▷  "Contrast"

System limits

Deactivated camera

If the camera is deactivated, for example when the boot lid is opened, the camera image is displayed as grey hatching.

Detection of objects

Very low obstacles and higher, protruding objects such as ledges cannot be detected by the system.

Depending on the equipment, some assistance functions also take account of Park Distance Control PDC data.

Observe the notes in the chapter on Park Distance Control PDC.

The objects shown in the Control Display may be closer than they appear. Do not estimate the distance to objects based on the display.

With Parking Assistant Plus: Surround View

Principle

The system provides assistance with parking and manoeuvring. It does this by displaying an image of the area all around the vehicle on the Control Display.

General

Several cameras capture the area from various selectable perspectives.

The following camera perspectives can be displayed:

- ▶ Automatic camera perspective: the system automatically shows the appropriate camera perspective for the current driving situation.
- ▶ Rear-view camera: for showing the areas behind the vehicle.
- ▶ Flank view right and left: for showing the areas to the side of the vehicle.
- ▶ Camera perspective freely movable using iDrive.
- ▶ Panorama View: for representing crossing traffic, for example at junctions and exits, depending on which gear is currently engaged.

Depending on the view, the vehicle's surroundings or a partial area are displayed.

Assistance functions, for example auxiliary lines, are also shown on the display.

A number of assistance functions can be active simultaneously.

Some assistance functions can be activated manually.

The following assistance functions are shown automatically:

- ▶ Lateral parking aid.
- ▶ Door opening angle.

Safety note

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. There is a risk of accident. Adapt your driving style to the traffic conditions. Additionally, look directly to check the traffic situation and the area around the vehicle and intervene actively where appropriate.

Overview

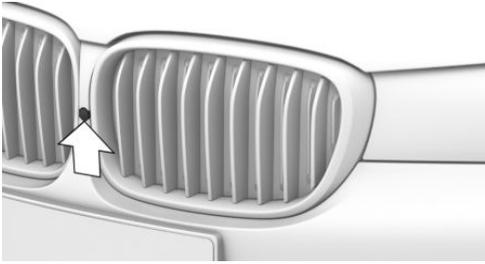
Buttons in the vehicle



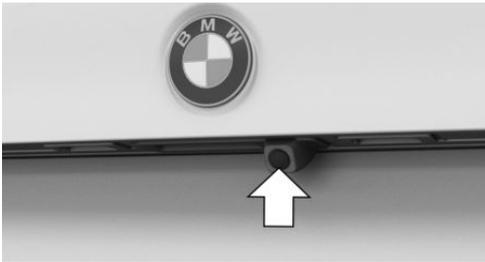
 Park Assistant button

 Panorama View

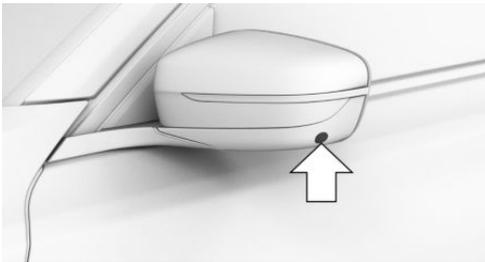
Cameras



Front camera



Rear-view camera



A camera is located under each exterior mirror housing.

Dirt on the camera lenses can impair the quality of the image. Clean the camera lenses if required.

Switching on/off

Automatic activation

The system automatically switches on when selector lever position R is engaged while the engine is running.

The camera perspective appropriate for the current driving situation is shown.

For further information:

Switch on/off, see page 275.

Switching on/off manually



Press the Park Assistant button.

- ▷ On: the LED is illuminated.
- ▷ Off: the LED is extinguished.

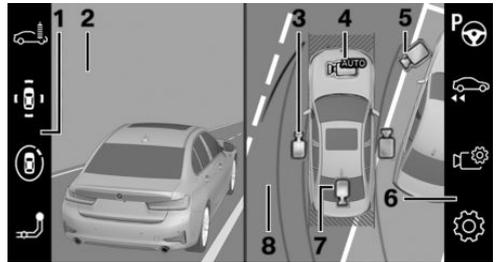
Automatic deactivation when moving forwards

The system switches off once a certain distance or speed is exceeded.

Switch the system back on if necessary.

Display on the Control Display

Overview



- 1 Toolbar, left
- 2 Camera image
- 3 Flank view
- 4 Automatic camera perspective
- 5 Movable, free camera perspective
- 6 Toolbar, right
- 7 Rear-view camera
- 8 Selection window

Toolbar, left

It is possible to select various views directly using iDrive and the function bar on the left. To do this, tilt the Controller to the left if necessary.

- ▶  "Car wash".
- ▶  "Parking": around the vehicle.
- ▶  "3D view": free camera.
- ▶  "Tow hitch".

Flank view

The flank view can be selected for the right or left side of the vehicle.

This view displays the area at the side to assist with positioning the vehicle at the kerb or alongside any other obstacles.

The flank view looks from the rear to the front. If there is a hazard, it automatically focuses on possible obstacles.

Automatic camera perspective

The automatic camera perspective displays a steering angle-dependent view looking towards the vehicle's direction of travel.

This perspective adapts to the respective driving situation.

As soon as obstacles are detected, the view switches to a fixed display of the area in front or behind the bumper or, if necessary, to a flank view.

Movable, free camera perspective

If the movable camera perspective is selected, a circular path is shown on the Control Display.

By turning the Controller or using the touch function, defined perspectives along the circular path can be selected.

The current perspective is marked with a camera symbol.

To exit the function, tilt the Controller to the side and select a different camera function.

Toolbar, right

Assistance functions can be activated and settings made using iDrive and the function bar on the right. To do this, tilt the Controller to the right if necessary.

- ▶  "Park Assist".
- ▶  "Reversing Assistant".
- ▶  "Camera picture":
 - ▶  "Brightness".
 - ▶  "Contrast".
 - ▶  "Parking guide lines".
 - ▶  "Obstacle mark."
- ▶  "Settings": to perform settings, for example to use the activation points with Panorama View.

Rear-view camera

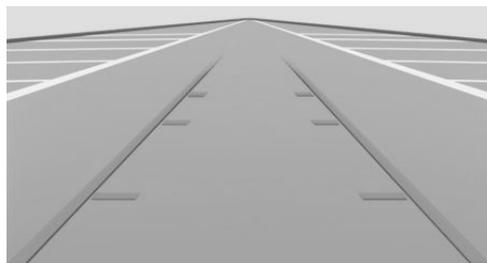
This view shows the image from the rear-view camera.

Selection window

In the selection window, the individual camera perspectives can be selected using iDrive.

Parking guidance lines

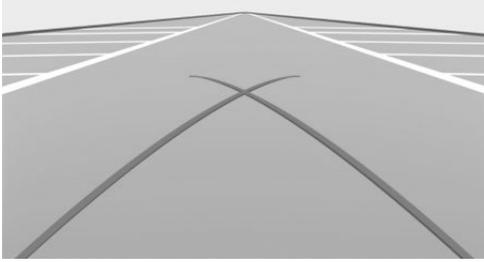
Driving path lines



The driving path lines help you to estimate the space required when parking and manoeuvring on a level road surface.

The driving path lines are dependent on the steering angle and continuously adapt to steering wheel movements.

Turning circle lines



The turning circle lines can only be shown in the camera image together with driving path lines.

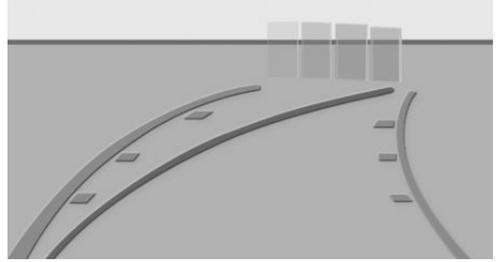
The turning circle lines show the trajectory of the smallest possible turning circle on a level road surface.

Once the steering wheel has been turned beyond a certain angle, only one turning circle line is displayed.

Parking with the help of driving path and turning circle lines

1. Position the vehicle so that the red turning circle line is within the boundaries of the parking space.
2. Turn the steering wheel so that the green driving path line covers the corresponding turning circle line.

Obstacle marker

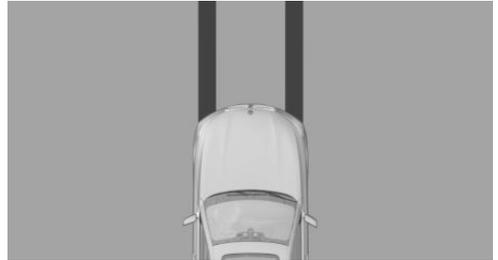


Obstacles behind the vehicle are detected by the Park Distance Control PDC sensors.

Obstacle markings can be shown in the camera image.

The colour grading of the obstacle markings is the same as the Park Distance Control PDC markings.

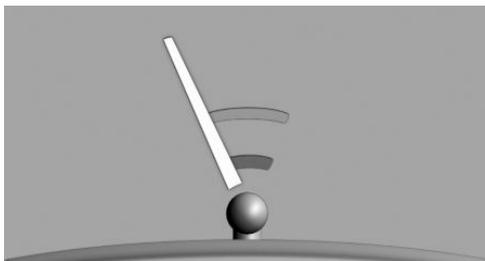
Washing bay view



The washing bay view provides assistance when driving into washing bays by displaying the vehicle's own tyre tracks.

Zoom to trailer tow hitch

To assist with connecting up a trailer, it is possible to zoom in on the area around the trailer tow hitch.



Two static circle segments show the distance between the trailer and the trailer tow hitch.

A docking line dependent on the steering angle assists you in lining up the trailer tow hitch with the trailer.

When zooming in, remember that the view might no longer show certain obstacles.

Lateral parking aid

Principle

The system warns about obstacles at the side of the vehicle.

Display



Obstacle markings are displayed at the sides of the vehicle to protect the vehicle's flanks.

- No markings: no obstacles have been detected.
- Coloured markings: warning that obstacles have been detected.

Lateral parking aid limits

The system only shows stationary obstacles that were previously detected by the sensors when driving past.

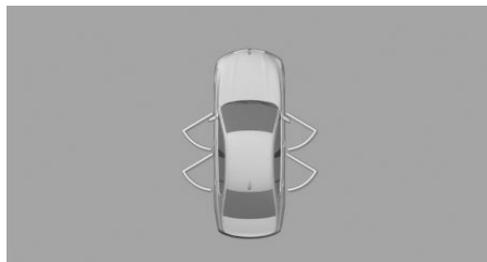
The system does not detect whether an obstacle subsequently moves. Consequently, the markings will no longer be shown on the display after the vehicle has been stationary for a while. The area next to the vehicle needs to be scanned again.

Door opening angle

Principle

If obstacle marking is activated, the system shows any fixed, stationary obstacles that are restricting the opening angle of the doors.

The system does not issue warnings about approaching road users.



Steptronic transmission: the maximum door opening angles are displayed when the selector lever is in position P.

Manual transmission: with the vehicle stationary, the maximum opening angles of the doors are shown after a short period.

Once the vehicle moves off, the parking assistance lines are displayed instead of the opening angles.

Limits of the display

For technical reasons, the display of the area around the vehicle is distorted.

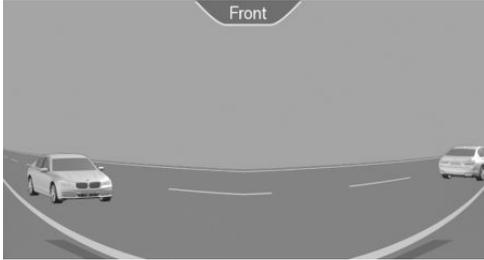
Even if the symbols for the door opening angles on the Control Display are not covering any other

objects, bear in mind the following when parking beside other objects:

The perspective means that protruding objects located higher up may be closer than they appear on the Control Display.

Panorama View

Principle



The system provides you with an advance view of crossing traffic at blind exits and junctions.

General

Road users hidden by obstacles at the side may not be seen from the driver's seat until very late. To provide a better view, the front and rear cameras scan the areas to the side for traffic.

Yellow lines on the screen image indicate the front and rear ends of the vehicle.

The camera image is subject to varying levels of distortion in some areas and is thus not suitable for estimating distances.

Depending on the equipment, the function can only be used when a forward gear is engaged.

Display on the Control Display



Press the button with the engine running.

The image from the relevant camera is displayed, depending on the driving direction:

- ▷ "Front": image from the front camera.
- ▷ "Rear": image from the rear camera.

Depending on the vehicle equipment, the crossing traffic warning can warn about approaching vehicles by means of radar sensors.

For further information:

Crossing traffic warning, see page 298.

With navigation system: activation points

Principle

Locations where you wish Panorama View to switch on automatically can be saved as activation points provided that a GPS signal is being received.

General

Up to ten activation points can be saved.

Activation points can be used for the front camera when driving forward.

Saving activation points

1. Drive to the location at which the system is to be switched on, and stop.
2.  Press the button.
3. Tilt the Controller to the right.
4. "Activation point"
The current location is shown.
5. "Save activation point"

Where possible, activation points are saved with the town/city and street, otherwise with the GPS coordinates.

Using activation points

Use of activation points can be switched on and off.

1.  Press the button.
2. Tilt the Controller to the right.
3.  "Settings"

4. "Panorama View, GPS-based"
5. "Panorama View is displayed automatically when set activation points are reached."

Displaying activation points

1.  Press the button.
2. Tilt the Controller to the right.
3.  "Manage points"
A list of all activation points is shown.

Renaming or deleting activation points

1.  Press the button.
2. Tilt the Controller to the right.
3.  "Manage points"
A list of all activation points is shown.
4. Select an activation point if necessary.
5. Perform the desired setting:
 - ▷ "Rename"
 - ▷ "Delete activation point"
 - ▷ "Delete all activation points"

Setting the brightness and contrast

When Surround View or Panorama View is switched on, it is possible to adjust the brightness and contrast.

1. If necessary, tilt the Controller to the right.
2.  "Camera picture"
3. Perform the desired setting:
 - ▷  "Brightness"
 - ▷  "Contrast"

Functional limitations

The system can only be used to a limited extent in the following situations:

- ▷ In poor light conditions.
- ▷ If the cameras are dirty.

- ▷ With a door open.
- ▷ With the boot lid open.
- ▷ With the exterior mirrors folded in.

Grey hatched areas with a symbol, for example an open door, in the camera display identify areas that are not currently shown.

System limits

Non-visible areas

Due to the angle of view, the area under the vehicle cannot be seen by the cameras.

Detection of objects

Very low obstacles and higher, protruding objects such as ledges cannot be detected by the system.

Some assistance functions also take account of Park Distance Control PDC data.

Observe the notes in the chapter on Park Distance Control PDC.

The objects shown in the Control Display may be closer than they appear. Do not estimate the distance to objects based on the display.

For further information:

Park Distance Control, PDC, see page [275](#).

Malfunction

The failure of a camera is shown on the Control Display.



A yellow symbol is shown and the capture area of the failed camera is shown in black on the Control Display.

With Parking Assistant Plus: Remote 3D View

Principle

With the corresponding equipment, the BMW Connected app and the images from the Sur-

round View cameras enable the vehicle surroundings to be displayed on a mobile device. The function shows a view of the current situation.

Operating requirements

- ▷ Data transfer must be activated. Data protection, see page 71.
- ▷ The BMW Connected App must be installed on the mobile device.
- ▷ ConnectedDrive countries: a driver profile with an existing ConnectedDrive account must be activated. Driver profiles, see page 72.

Switching the function on/off

Switching on/off with other functions

1. "CAR"
2. "Settings"
3. "General settings"
4. "Data privacy"
5. Select the desired setting:
 - ▷ "All services incl. analysis"
 - ▷ "All vehicle services"

Switching on/off individually

Pre-adjustment

1. "CAR"
2. "Settings"
3. "General settings"
4. "Data privacy"
5. "Select services individually"
6. "Connected app and cust. portal"
7. "Remote 3D View"

Switching on/off

1. "CAR"
2. "Settings"
3. "General settings"
4. "Data privacy"
5. "Individual selection"

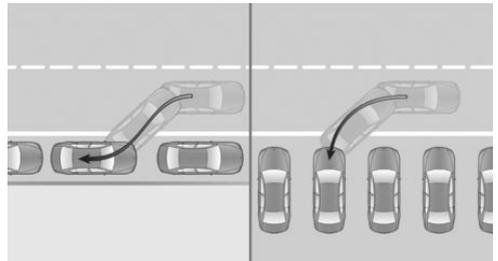
Functional limitations

The system may have limited functionality or may not be available at all in the following situations, for example:

- ▷ In poor light conditions.
- ▷ If the cameras are dirty.
- ▷ With a door or the boot lid open. Dark areas in the display indicate areas that are not detected by the system.
- ▷ With the exterior mirrors folded in.
- ▷ When other camera functions are run in the vehicle.
- ▷ If the vehicle is moving faster than at walking speed.
- ▷ It may not be possible to use the function in all countries.
- ▷ For reasons related to data protection, the function can only be run three times in two hours.

With Parking Assistant: Park Assist

Principle



The system supports the driver in the following situations:

- ▶ When parking sideways parallel to the road: parallel parking.
- ▶ When reverse parking perpendicular to the road: perpendicular parking. The system lines up with the middle of the parking space when parking perpendicular to the road.
- ▶ Depending on the equipment version: when leaving parallel parking spaces

General

Operation

Operation of Park Assistant is divided into three steps:

- ▶ Switching on and activating.
- ▶ Parking space search.
- ▶ Parking.

The status of the system and the actions required are shown on the Control Display.

Ultrasonic sensors measure parking spaces on both sides of the vehicle.

Manual transmission

The Park Assistant calculates the ideal parking line and takes over steering during the process of parking.

Steptronic transmission

Park Assistant calculates the ideal parking line and takes over the following functions during a parking operation:

- ▶ Steering.
- ▶ Accelerating and braking.
- ▶ Changing gear.

The parking operation takes place automatically.

Safety notes

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

WARNING

When the trailer tow hitch is in use, the driver assistance system could cause damage if its sensors are obstructed. There is a risk of accident or material damage. Do not use the driver assistance system during trailer operation or when using the trailer tow hitch, for example with a bicycle carrier.

NOTE

Park Assistant may steer across or up onto kerbs. There is a risk of material damage. Observe the traffic situation and intervene actively if the situation warrants it.

In addition, the safety notes apply for Park Distance Control PDC.

For further information:

Park Distance Control, PDC, see page [275](#).

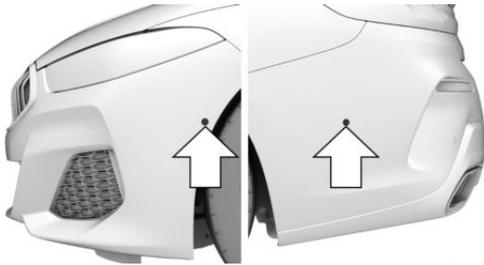
Overview

Button in the vehicle



Park Assistant button

Ultrasonic sensors



The system uses the four side ultrasonic sensors, arrows, and the ultrasonic sensors in the bumpers to measure parking spaces and distances to obstacles.

Operating requirements

Ultrasonic sensors

- ▷ Do not cover the sensors, for example with stickers.
- ▷ Keep the sensors clean and unobstructed.

For measuring parking spaces

- ▷ The vehicle must be driving forwards in a straight line at speeds up to approximately 35 km/h, 22 mph.

- ▷ Maximum distance from the row of parked vehicles: 1.5 m, 5 ft.

Suitable parking space

General:

- ▷ Gap behind an object that is at least 0.5 m, 1.7 ft long.
- ▷ Gap between two objects, each at least 0.5 m, 1.7 ft long.

Parking parallel to the road:

- ▷ Minimum length of gap between two objects: own vehicle length plus approximately 0.8 m, 2.6 ft.
- ▷ Minimum depth: approximately 1.5 m, 5 ft.

Perpendicular parking:

- ▷ Minimum length of gap: own vehicle width plus approximately 0.7 m, 2.3 ft.
- ▷ Minimum depth: own vehicle length.

Drivers must estimate the depth of perpendicular parking spaces themselves. Due to technical limits, the system is only able to gauge the depth of perpendicular parking spaces approximately.

For parking

- ▷ Doors and boot lid are closed.
- ▷ Steptronic transmission:
- ▷ Driver's seat belt is fastened.

Switching on with the button

- ▷ Press the Park Assistant button.
- ▷ The LED is illuminated.

It is possible to display the current status of the parking space search on the Control Display.

- ▷ Park Assistant is automatically activated.

Switching on with reverse gear

1. Engage reverse gear.

It is possible to display the current status of the parking space search on the Control Display.

2. Activate if necessary:  "Park Assist"

Switching on via iDrive

Rear-view camera display or PDC view must be active.

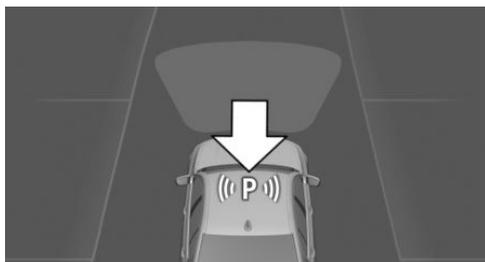
1. Tilt the Controller to the right.
2. Activate the Park Assistant on the Control Display:  "Park Assist"

Display on the Control Display

System is activated/deactivated

Sym- bol	Meaning
	Grey: system is not available. White: system is available but not activated.
	System is activated.
	Parking space search is active.
	Parking operation is active. The system takes over the steering.

Parking space search and system status



- ▷  The Park Assistant is activated and parking space search is active.

- ▷ Suitable parking spaces are shown on the Control Display on the edge of the roadway next to the vehicle symbol. When Park Assistant is active, suitable parking spaces are highlighted and an acoustic signal sounds.
- ▷ When perpendicular or parallel parking spaces are clearly detected, the system automatically sets the appropriate parking method. A selection menu is displayed for parking spaces that are large enough for both parallel and perpendicular parking. In this case, select the desired parking method manually.
- ▷  Parking operation active. The system takes over the steering.
- ▷ The parking space search is active whenever the vehicle is driving forwards at low speed, even if the system is deactivated. If the system is deactivated, the displays on the Control Display may be shown in grey.

Switching the acoustic signal for suitable parking spaces on/off

1. "CAR"
2. "Settings"
3. "Driver assistance"
4. "Parking and manoeuvring"
5. "Park Assist"
6. "Alert if parking space detected"

The setting is saved for the current driver profile.

Park Distance Control PDC acoustic signals

During an automatic parking manoeuvre, Park Distance Control PDC does not emit an intermittent tone.

A continuous tone sounds if the distance to a detected object is less than approximately 20 cm, 8 in.

Parking with Park Assistant

Driving into a parking space

1. Switch on and activate Park Assistant.
For this, engage reverse gear or press the Park Assist button and activate the system on the control display if necessary.

 Park Assistant is activated.

2. Drive forwards past the line of parked vehicles at a speed up to approximately 35 km/h, 22 mph and at a distance of maximum 1.5 m, 5 ft.

The status of the parking space search and possible parking spaces are shown on the Control Display.

3. Confirm the suggested parking space for the parking process: select the parking space on the Control Display.

The system takes over the steering.

4. Follow the instructions on the Control Display.

Manual transmission:

To achieve an optimum parking position, wait for the automatic steering process after changing gear at standstill.

Steptronic transmission:

When parking is complete, selector lever position P is engaged.

Completion of parking is indicated on the Control Display.

5. Adjust the parking position yourself if necessary.

Cancelling manually

You can cancel Park Assistant at any time:

- ▶  Press the Park Assistant button.
- ▶  "Park Assist": select the symbol on the Control Display.

Cancelling automatically

The system automatically cancels in the following situations:

- ▶ If the driver grips the steering wheel or steers the vehicle.
- ▶ On snow-covered or slippery road surfaces, if necessary.
- ▶ If it encounters objects that are difficult to negotiate, for example kerbs.
- ▶ If objects appear suddenly.
- ▶ If Park Distance Control PDC shows gaps that are too small.
- ▶ When a maximum number of parking attempts or the parking time is exceeded.
- ▶ If other functions are selected on the Control Display.

Manual transmission:

- ▶ When selecting gear, which does not correspond to the information on the Control Display.
- ▶ At speeds over approximately 10 km/h, 6 mph.
- ▶ If the turn indicator opposite to the desired parking side is switched on.

Steptronic transmission:

- ▶ If the boot lid is open.
- ▶ When doors are open.
- ▶ If the parking brake is applied.
- ▶ When accelerating.
- ▶ If the brake pedal remains pressed for a relatively long period when the vehicle is stationary.
- ▶ When the driver's seat belt is unfastened.

A Check Control message is shown.

Resuming

You can continue a cancelled parking operation if applicable.

To do this, reactivate the Park Assistant and follow the instructions on the Control Display.

Switching off

The system can be switched off manually:



Press the Park Assistant button.

System limits

Safety note

WARNING

The system may not respond at all, or may respond too late, incorrectly or without justification due to system limitations. There is a risk of accident or material damage. Observe the information on the system limits and intervene actively if necessary.

No parking assistance

Park Assistant does not provide assistance in the following situations:

- ▷ On sharp bends.
- ▷ When towing a trailer.
- ▷ In angled parking spaces.

Functional limitations

The system may have limited functionality in the following situations, for example:

- ▷ On uneven road surfaces, for example gravel roads.
- ▷ On slippery surfaces.
- ▷ On steep upward or downward gradients.
- ▷ If leaves have collected or snow has drifted or been piled up in the parking space.
- ▷ If the spare wheel has been fitted.
- ▷ If there is a change in a measured parking space.
- ▷ If there are ditches or sudden drops, for example a quayside.

- ▷ In some cases, parking spaces may be detected that are not suitable or suitable parking spaces may not be detected.

Limits of the ultrasound measurement

Certain conditions and objects may push ultrasound measurement to its physical limits.

The ultrasound measurement limits of the Park Distance Control PDC apply.

For further information:

Park Distance Control, PDC, see page 275.

Malfunction

A Check Control message is shown.

Park Assistant has failed. Have the system checked by a Service Partner of the manufacturer or another qualified Service Partner or a specialist workshop.

Depending on the equipment version: leaving a parking space with the Park Assistant

Principle

The system makes it easier to leave parallel parking spaces.

General

Manual transmission

The Park Assist calculates the optimum line to take when driving out of the space and takes over the steering during the manoeuvre until the driver can drive out of the space without any further steering movements.

Steptronic transmission

The Park Assistant calculates the optimum line to take when driving out of the space and takes over the following functions during the manoeuvre:

- ▷ Steering.
- ▷ Accelerating and braking.
- ▷ Changing gear.

The vehicle manoeuvres automatically until it is in a position where the driver can drive out of the space without any further steering movements.

Safety notes

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

WARNING

When the trailer tow hitch is in use, the driver assistance system could cause damage if its sensors are obstructed. There is a risk of accident or material damage. Do not use the driver assistance system during trailer operation or when using the trailer tow hitch, for example with a bicycle carrier.

The Safety Information for the Park Distance Control PDC and Park Assist also applies.

For further information:

- ▷ Park Distance Control, PDC, see page 275.
- ▷ Park Assistant, see page 290.

Operating requirements

- ▷ The vehicle has been parked manually and objects are detected in front of and behind the vehicle. The distance to a detected kerb is at least 15 cm, approx. 6 in.
- ▷ The vehicle has been parked using the Park Assistant and an object is detected in front of the vehicle.
- ▷ The parking space is at least 0.8 m, 2.6 ft longer than the vehicle.
- ▷ The vehicle has been reverse-bay parked.

Leaving a parking space

1. Switch on drive-ready state.
2. Manual transmission:
 - Press the Park Assistant button while the vehicle is stationary to switch on the Park Assistant.
 - Steptronic transmission:
 - When the vehicle is stationary, press the Park Assistant button or engage reverse gear to switch on the Park Assistant.
3. Tilt the Controller to the right as applicable and activate the Park Assistant on the Control Display:  "Park Assist"
4. On the Control Display, confirm the required direction for leaving the parking space.
5. Manual transmission:
 - Follow the instructions on the Control Display. The system takes over the steering when manoeuvring in the parking space. A message is displayed at the end of the manoeuvre.
 - Steptronic transmission:
 - The system takes over the manoeuvre. A message is displayed at the end of the manoeuvre.
6. Make sure that it is safe to leave the parking space in the current traffic situation and drive off as usual.

The Park Assistant is switched off automatically.

System limits

The system limits of the Park Distance Control PDC and the Park Assist apply.

With Parking Assistant: reversing assistant

Principle

The system supports the driver when reversing, for example when driving out of tight or blind parking spaces or narrow roads.

The vehicle saves the driving movements for the last stretch of road. The vehicle can reverse along this saved stretch with automated steering.

General

The system takes over the steering when reversing along the saved stretch.

The driver is responsible for operating the accelerator pedal and the brake.

The reversing assistant uses the control functions and the sensors of the Park Distance Control PDC and Park Assist.

For further information:

- ▷ Park Distance Control, PDC, see page [275](#).
- ▷ Park Assistant, see page [290](#).

Safety notes

WARNING

The system does not relieve you of your personal responsibility to assess the traffic situation correctly. Due to system limitations, it cannot respond independently and appropriately in all traffic conditions. There is a risk of accident. Adapt your driving style to the traffic conditions.

Observe the traffic situation and intervene actively if the situation warrants it.

WARNING

When the trailer tow hitch is in use, the driver assistance system could cause damage if its sensors are obstructed. There is a risk of accident or material damage. Do not use the driver assistance system during trailer operation or when using the trailer tow hitch, for example with a bicycle carrier.

The Safety Information for the Park Distance Control PDC and Park Assist also applies.

For further information:

- ▷ Park Distance Control, PDC, see page [275](#).
- ▷ Park Assistant, see page [290](#).

Operating requirements

- ▷ To save the stretch of road, drive forwards without interruption.
- ▷ A maximum of 50 metres/ 55 yards can be saved.
- ▷ To save the stretch of road, do not drive faster than 36 km/h/ 22 mph.
- ▷ Dynamic Stability Control DSC is activated.

Reversing with automated steering

1. When the vehicle is stationary and the drive-ready state is switched on, engage reverse gear or press the Park Assistant button.
2. Tilt the Controller to the right.
3. "Reversing Assistant"
The system takes over the steering.
4. Follow the instructions on the Control Display as applicable.
5. Take your hands off the steering wheel and carefully drive off using the accelerator pedal and brake.

When reversing, pay attention to the vehicle surroundings and, if you encounter an obstacle, stop immediately and take over control of the vehicle. Pay attention to the information on Park Distance Control PDC.

6. Stop when you reach normal road traffic at the latest and take over control of the vehicle, for example by engaging a forward gear.

At the end of the saved stretch of road, a signal sounds and a message appears prompting you to take over control of the vehicle.

Cancelling the system

The system automatically cancels in situations such as the following:

- ▷ If the driver grips the steering wheel or steers the vehicle.
- ▷ When a forward gear is engaged.
- ▷ When drive control systems or Driver Assistance Systems are activated or intervening.
- ▷ If the vehicle is stationary for several minutes.
- ▷ If the vehicle leaves the stored lane during reversing; for example, at the maximum steering angle.
- ▷ When the display on the Control Display is hidden by messages, for example due to incoming calls.

System limits

- ▷ When you reach normal road traffic or if you encounter an obstacle, stop immediately and take over control of the vehicle.
- ▷ The maximum speed when reversing is limited to approximately 9 km/h/ 6 mph.
If the maximum speed is exceeded, a warning is issued and the function may be cancelled.
- ▷ The system limits of the Park Distance Control PDC and the Park Assist also apply.

Various factors can result in sideways deviations when reversing along the saved stretch of road. These factors include, for example:

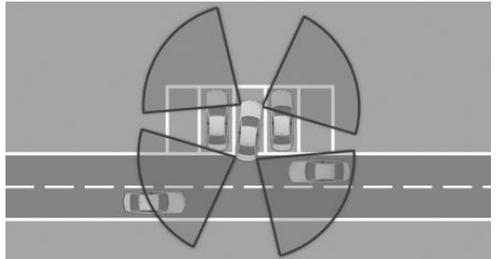
- ▷ Steering wheel movements when the vehicle is stationary during the process of saving the stretch.
- ▷ The speed is not adapted to the stretch of road in question.
- ▷ Road conditions, for example gradients or slopes.

Crossing traffic warning

Principle

At blind exits or when leaving perpendicular parking spaces, the system detects other road users approaching from the side earlier than is possible from the driver's seat.

General



Two radar sensors in the rear bumper monitor the area behind the vehicle.

The system indicates when other road users are approaching.

Depending on the equipment, the area in front of the vehicle is also monitored. For this purpose, two further radar sensors are located in the front bumper.

Safety note

WARNING

The system does not relieve you of your personal responsibility to assess the visibility conditions and traffic situation correctly. There is a risk of accident. Adapt your driving style to the traffic conditions. Observe the traffic situation and intervene actively if the situation warrants it.

Overview

Button in the vehicle



 Park Assistant button

Radar sensors



The radar sensors are located in the rear bumper.



Depending on the equipment, there are two additional radar sensors in the front bumper.

Keep the bumpers clean and unobstructed in the area of the radar sensors.

Switching on/off

Activating/deactivating the system

With the button

-  Press the Park Assistant button.
- Tilt the Controller to the right.
-  "Settings"
- "Cross-traffic alert"
- "Activate function"

Via iDrive

- "CAR"
- "Settings"
- "Driver assistance"
- "Parking and manoeuvring"
- "Cross-traffic alert"
- "Activate function"

Automatic activation

If the system was activated on the Control Display, it is switched on automatically as soon as Park Distance Control PDC or Panorama View is active and a gear is engaged.

The system is switched on at the rear when reverse gear is engaged.

Depending on the equipment, the system is switched on at the front when a forward gear is engaged.

Switching off automatically

The system switches off automatically in the following situations:

- ▷ If walking speed is exceeded.
- ▷ When a certain distance is exceeded.
- ▷ When Park Assistant is actively parking the vehicle.

Warning

General

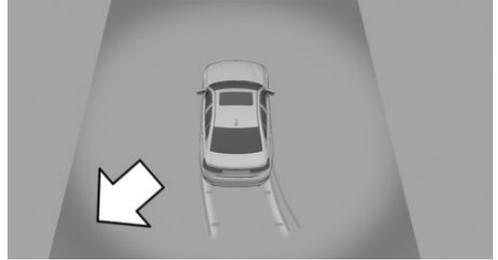
The Control Display shows the corresponding image, an acoustic signal sounds, if necessary, and the light in the exterior mirror flashes.

Light in the exterior mirror



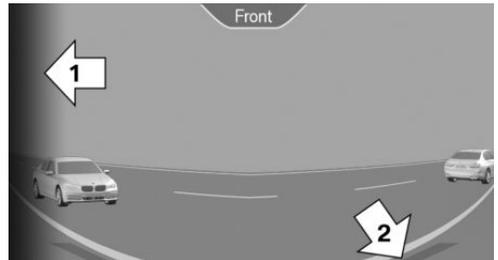
The light in the exterior mirror flashes if other vehicles are detected by the rear sensors when the vehicle is reversing.

Display in the Park Distance Control PDC view



In the Park Distance Control PDC view, the relevant boundary area flashes red if the sensors detect vehicles.

Display in the camera view



The relevant boundary area, arrow 1, in the camera view flashes red if the sensors detect vehicles.

Yellow lines, arrow 2, indicate the bumper of your vehicle.

Acoustic warning

In addition to the visual display, a warning signal sounds when your own vehicle is moving in the corresponding direction.

System limits

The system may have limited functionality in the following situations:

- ▷ If the approaching vehicle is travelling very fast.
- ▷ In thick fog, wet conditions or snow.

- ▷ On sharp bends.
- ▷ If the bumper is dirty, iced up or covered, for example by stickers.
- ▷ If the sensors' field of view is obscured, for example due to garage walls, hedges or mounds of snow.
- ▷ When a projecting load is being transported.
- ▷ If crossing objects are moving very slowly.
- ▷ If there are other objects in the field of view of the sensors that conceal the crossing traffic.

If the trailer socket is occupied, for example when operating with a trailer or a bicycle carrier, crossing traffic warning is not available for the area behind the vehicle.